Corrective Measure Proposal
UCC Technology Park

Prepared for

Union Carbide Corporation

A Wholly Owned Subsidiary of The Dow Chemical Company

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CH2MHILL

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Acronyms and Abbreviations

µg/kg	micrograms per kilogram
µg/L	micrograms per liter
BERA	baseline ecological risk assessment
bgs	below ground surface
CCR	*Current Conditions Report*
CMP	corrective measures proposal
COPC	chemical of potential concern
EPC	exposure point concentration
facility	Union Carbide Corporation Technology Park
HDPE	high-density polyethylene
HHRA	human health risk assessment
MCL	maximum contaminant level
MDL	method detection limit
mg/kg	milligrams per kilogram
NCP	National Contingency Plan
O&M	operations and maintenance
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
POTW	publicly owned treatment works
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RSL	regional screening level
SCF	South Charleston Facility
SLERA	screening level ecological risk assessment
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TEQ	toxic equivalent
UCC	Union Carbide Corporation
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WVDEP	West Virginia Department of Environmental Protection
WVDOT	West Virginia Department of Transportation

SECTION 1

Introduction

This corrective measures proposal (CMP) has been prepared for the Union Carbide Corporation (UCC) Technology Park (hereafter referred to as the facility) in South Charleston, West Virginia (Figure 1-1). The 650-acre facility is currently owned by UCC, A Wholly Owned Subsidiary of The Dow Chemical Company.

UCC has been conducting corrective actions in accordance with the U.S. Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) Corrective Action Program since the 1980s when UCC initiated the first of numerous investigations at the facility. UCC entered the Facility Lead Program through an agreement signed by USEPA and UCC (effective December 15, 1999). These investigations have progressively increased knowledge of site conditions and aided in defining and implementing corrective measure activities. Based on these site activities and investigation data, UCC has completed several corrective measures at the facility as interim actions and is proposing final corrective measures as part of this CMP.

1.1 Purpose and Objectives

This CMP presents the supporting information necessary for USEPA to approve the corrective measures and make Corrective Action Complete decisions for the facility. The overall objectives for corrective measures at the facility are to protect human health and the environment while allowing the property to be put into future uses that can benefit the community and UCC. Specific objectives for the facility include the following:

- Protect human health and the environment from current and future potentially unacceptable risks due to releases of hazardous constituents at or from the facility
- Demonstrate that corrective measures are complete for undeveloped portions of the facility where no solid waste management units (SWMUs) are present
- Implement corrective measures for portions of the facility that present potentially unacceptable risks
- Continue to work proactively with USEPA for all aspects of corrective measures for the facility

1.2 Organization

This CMP is organized by initially presenting a brief summary of the facility background (Section 2) that relies on other documents including the *Current Conditions Report* (CCR; CH2M HILL 2008) and documents previously submitted or included as appendices as part of the CMP.

Section 3 identifies and presents details for each proposed remedy, to address potential facility risks under current and future land use. Proposed corrective measures are presented for facility subareas, which are based on tract and land use. Section 4 provides a schedule for implementing the proposed corrective measures for the facility, and Section 5 includes references cited in the CMP.

SECTION 2

Facility Background

The facility is located in South Charleston, West Virginia (Figure 1-1). The historical and current property uses vary widely across the facility – ranging from offices and laboratories in the northern portion of the facility, to landfills and undeveloped portions throughout the rest of the facility. Holz Impoundment, which is a 76-acre active solid waste facility that is used for UCC operations, is within the facility boundary. Holz Impoundment is regulated under the West Virginia Department of Environmental Protection (WVDEP) solid waste regulations and has its own EPA identification number; therefore, it is not a part of the facility and is not included in this CMP.

The physical and environmental site conditions have been well characterized by investigations performed across the facility. The CCR submitted to USEPA in March 2008 (CH2M HILL 2008) provides details on the facility and serves as the main reference document for this CMP. Since that time, additional investigation activities have been completed to refine the understanding of conditions in specific areas, to collect data to support corrective measures decision making, and/or to provide data for implementing corrective measures. A listing of documents submitted to USEPA since the CCR is presented in Table 2-1.

The following sections present the current and proposed future land uses, as they are known at this time, along with a summary of the current site conditions and potential risks. Additional information regarding each area, including former operation and waste management history, is detailed in the CCR (CH2M HILL 2008).

2.1 Land Use

2.1.1 Current Land Use

The 650-acre facility, of which approximately 110 acres are developed, is located in South Charleston, West Virginia (Figure 1-1). The developed portion of the facility currently provides research, development, and process engineering for UCC. Some buildings and portions of the facility are leased to other entities. The facility includes major laboratory buildings, pilot plant areas, waste packaging and storage facilities, and office buildings. The remaining land at the facility consists of landfills or undeveloped property. Most of the undeveloped property is wooded.

The undeveloped area of the facility where landfills are present and the majority of the developed area of the facility are zoned as light industrial by the City of South Charleston (Figure 2-1). Portions of the facility (most undeveloped areas) are zoned as commercial or residential; although the portions of the facility zoned as residential are not being used for residential purposes.

The facility is divided into four areas based on the current land use (Figure 2-2).

- Developed Area: This area is approximately 110 acres and consists of office space, laboratories, pilot plants, and waste storage areas.
- Landfill/Undeveloped Area: This area is approximately 69 acres and consists of the inactive Ward A and B Landfills. Since Ward A Landfill became inactive in 1971, the landfill has been maintained as a scenic pond (referred to as Ward A Pond). Ward B Landfill is maintained with a soil/grass cover and a portion of it is used as a wildlife habitat area, which consists of bird boxes, walking paths, and a shelter.
- Landfill/Developed Area: The area is approximately 16 acres and consists of the inactive Lower Ward Landfill. Half of the Lower Ward Landfill is maintained with a soil/grass cover and half is managed as an asphalt parking lot.
- Undeveloped Area: The greater portion of the facility (approximately 379 acres) consists of undeveloped wooded land.

2.1.2 Proposed Future Land Use

Based on historical operations, remedial activities performed, and conceptual redevelopment plans, the proposed future land uses for the facility are shown on Figure 2-3 and discussed below.

- Industrial/Commercial Use Area: This area is approximately 162 acres and is anticipated to consist of industrial/commercial uses that are consistent with the current land use (for example, office space, laboratories, pilot plants, etc.).
- Recreational Use Areas: The area is approximately 150 acres and includes Ward A and B Landfills and areas immediately surrounding the landfills. UCC is already using a portion of the Ward B Landfill as wildlife habitat area (as discussed in Section 2.1.1).
- Unrestricted Use Areas: This area is approximately 262 acres on the eastern portion of the facility and consists of unused land that is mostly wooded.

For development purposes, the facility is subdivided into four parcels (Tracts A through D), which also are depicted on Figure 2-3. A summary of each parcel is as follows:

- Tract A: This tract is approximately 248 acres and contains proposed industrial/commercial use areas and unrestricted use areas.
- Tract B: This tract is approximately 10 acres and is proposed for continued industrial/commercial use.
- Tract C: This tract is approximately 9 acres and is proposed for continued industrial/commercial use.
- Tract D: This tract is approximately 383 acres (76 acres of which is Holz Impoundment) and contains proposed industrial/commercial use areas and recreational use areas.

2.2 Current Conditions

A total of 70 SWMUs have been identified for the facility (Figure 2-4). In addition, there are four areas with environmental impacts (hereafter referred to as investigation areas) outside of SWMUs that were identified at the facility (Figure 2-5). A description of the SWMUs and investigation areas along with a summary of investigation results is provided in Table 2-2.

Current conditions at the facility are well understood, based on more than 20 years of work to evaluate facility history, the physical environment, and constituent distribution and movement within the facility and offsite, and are documented in the CCR (CH2M HILL 2008). Analyses performed to date have confirmed the understanding of current conditions and established a knowledge base for assessing potential risk at the facility, implementing interim corrective measures, and completing final corrective measures at the facility. Significant investigation findings are described below.

2.2.1 Landfills

The unlined landfills (impoundments while they were in use) were constructed to receive fly ash slurry from the UCC South Charleston Facility (SCF), oxide tails from the SCF propylene oxide production unit, municipal sludge from the South Charleston publicly owned treatment works (POTW), and laboratory waste from the facility. The landfills were created by constructing the upper and lower dikes across Ward Hollow. The Lower Ward Landfill (SWMU 1) is located between the upper and lower dike, and the Ward A and B Landfills (SWMU 3) are located south of the upper dike (Figure 1-1). The landfills are no longer used for disposal and are either covered (Lower Ward or Ward B Landfill), or maintained as a scenic pond (Ward A Landfill).

2.2.2 Ward Hollow Groundwater

Groundwater contamination in Ward Hollow (Figure 1-1) is related to the three landfills (Lower Ward Landfill, Ward A Landfill, and Ward B Landfill) at the facility and the brine wells[1]. Contaminated groundwater is migrating from the landfills to the underlying weathered bedrock and then downgradient onto West Virginia Department of Transportation (WVDOT) property and potentially onto CSX Transportation property. The most prominent constituents within the Ward Hollow groundwater plume that are above the USEPA maximum contaminant levels (MCLs) or the adjusted USEPA tap water regional screening levels (RSLs) include 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; arsenic; and barium. The CCR (CH2M HILL 2008) contains a list of all the constituents above screening criteria. The approximate area of the groundwater plume is shown on Figure 2-6.

2.2.3 Greenhouse Area Groundwater

Groundwater data from two monitoring wells (MW-104A and WVU-04) in the Greenhouse Area (Figure 2-5) have detected concentrations of volatile organic compounds (VOCs) above the MCLs or adjusted tap water RSLs. The 2009 sample results showed that no VOCs exceed screening criteria in MW-104A and only two detected VOCs (chloroform and tetrachloroethene) exceed screening criteria in WVU-MW04 (Figure 2-7). Soil results from

[1] Existed in this area before the development of the facility but now are abandoned.

samples collected near these wells show no sources of soil contamination (Figure 2-8). Employee interviews and file reviews also have not identified a source for the contamination in these two monitoring wells (Appendix B).

2.2.4 Isolated Impacts in Soil

At the facility, only isolated impacts remain in soil. Analytical results above the adjusted USEPA residential soil RSLs or the adjusted industrial soil RSLs (USEPA 2009) and the mean natural background concentration for the State of West Virginia (WVDEP 2001) are shown on Figure 2-8. A summary of the exceedances by analyte group are discussed below.

Volatile Organic Compounds

Several VOCs were detected above the adjusted residential soil RSLs in the developed area of the facility; however, only tetrachloroethene at SB-02 (185,000 micrograms per kilogram [µg/kg]) exceeded the adjusted industrial soil RSL. Other samples collected within 50 feet of SB-02 had tetrachloroethene concentrations that were either nondetect or two orders of magnitude below the adjusted industrial soil RSL.

Semivolatile Organic Compounds

Semivolatile organic compounds (SVOCs) were detected at three locations (WVU-SS13, WVU-SS14, and TCF-0141) at concentrations above screening criteria. At WVU-SS13 and WVU-SS14, benzo(a)pyrene exceeded the adjusted residential soil RSL, but was below the adjusted industrial soil RSL. At TCF-0141, indeno(1,2,3-cd)pyrene exceeded the adjusted residential soil RSL, and several other polynuclear aromatic hydrocarbons (PAHs) exceeded both the adjusted residential and industrial soil RSLs.

Metals

Mercury and arsenic were the only metals detected above the screening criteria. Mercury exceeded the adjusted residential soil RSLs and the mean West Virginia background concentration, but was below the adjusted industrial soil RSL. Arsenic exceeded both the adjusted residential and industrial soil RSL and the mean West Virginia background concentration at several locations; however, only two locations (TCF-0090 and TCF-0094) exceeded the maximum West Virginia background concentration (13 milligrams per kilogram [mg/kg]).

2.3 Summary of Facility Risks

Human health and ecological risk assessments were completed for specific areas of the facility based on investigation results, potentially complete exposure pathways, and proposed corrective measures. The results of these assessments are discussed further below.

2.3.1 Human Health

Ward A Landfill

The analytical results from investigations conducted for Ward A Landfill were compared to human health risk-based screening values. The results of the human health risk screening

indicated potentially complete exposure pathways in Ward A Pond; therefore, this area was evaluated as part of a human health risk assessment (HHRA) (CH2M HILL 2009a).

Potential exposure pathways and scenarios that were evaluated as part of the HHRA for Ward A Landfill include trespassers (adult and child), maintenance workers (adult), and recreational users (adult and child). The HHRA concluded that for current land use and likely future land use (assuming recreational use), exposure to surface water and sediment at Ward A Landfill would not result in unacceptable human health risks.

Ward Branch

The analytical results from investigations conducted for Ward Branch (Figure 1-1) were compared to human health risk-based screening values. The results of the human health risk screening indicated potentially complete exposure pathways for Ward Branch; therefore, this area was evaluated as part of a HHRA (CH2M HILL 2009a).

Potential exposure pathways and scenarios that were evaluated as part of the HHRA for Ward Branch include trespassers (adult and child) and maintenance workers (adult). The HHRA concluded that for current and future land use (assuming limited access to site workers with potential trespassing), exposure to surface water and sediment in Ward Branch would not result in unacceptable human health risks.

Buildings near the Landfills

Historical data for materials placed in Lower Ward Landfill, Ward A Landfill, and Ward B Landfill indicate the landfills are the source of constituents detected in groundwater underlying and downgradient of the landfills. Based on recommendations in the USEPA vapor intrusion guidance (USEPA 2002), locations within 100 feet of potential sources for vapor intrusion (that is, vapors from the landfill or groundwater affected by the landfills) were evaluated to identify potentially complete exposure pathways. Locations that are within 100 feet of the landfills include buildings currently in use (Buildings 771, 2000, and 6000 [Figure 2-9]) and an undeveloped area west of the Lower Ward Landfill. These locations were identified for further evaluation as part of a HHRA (CH2M HILL 2009a). For these buildings, the indoor worker exposure pathway/scenario was evaluated in the HHRA. Based on the exposure assumptions, results in the HHRA indicated that current and future human health exposure would not result in unacceptable human health risks.

Based on noncarcinogenic hazards and carcinogenic risk results for future subsurface vapor intrusion for the area west of the Lower Ward Landfill, it was concluded that no further evaluation of the area is currently required. If buildings are to be constructed in the area, the indoor air pathway may be further evaluated.

Buildings 706 and 707

Impacted soil in the vicinity of Buildings 706 and 707 (Figure 2-9) was removed in 2008 and 2009, and the analytical results for confirmation soil samples indicate the post-removal soil concentrations do not pose an unacceptable risk or hazard for direct contact with soil under the industrial land use scenario. However, industrial soil RSLs do not account for the vapor intrusion pathway. Because of this, subslab soil gas, indoor air, and ambient air samples were collected in and around the buildings in July 2009 and evaluated as part of a HHRA (CH2M HILL 2009b).

Human health risks for Buildings 706 and 707 were evaluated for exposure to VOCs in indoor air through subsurface vapor migration from exterior soil for current/future indoor workers. The results indicated that current and future human health exposure associated with vapor intrusion into existing buildings from VOCs does not pose unacceptable human health risks (CH2M HILL 2009b).

Offsite Groundwater

The Ward Hollow groundwater plume extends offsite, so a HHRA was completed to evaluate human health risks related to exposure to contaminated groundwater downgradient of the facility. Potentially complete exposure pathways were determined by evaluating the means by which individuals may contact contaminated groundwater downgradient of the facility. Groundwater on the offsite properties is not currently used for municipal or domestic drinking water, and there are no known plans to do so in the future. Therefore, the ingestion exposure pathway was only evaluated by screening the maximum detected concentrations against the USEPA Region 3 tap water risk-based concentrations (RBCs) based on a hypothetical future use of groundwater as a drinking water source. The hypothetical future construction worker exposure scenario was quantitatively evaluated for incidental contact with groundwater. Although the depth to groundwater is approximately 20 feet below ground surface (bgs), it is possible that a future construction worker could have incidental exposure to groundwater during short-term construction activities (that is, less than 1-year duration). The exposure pathways analyzed were (1) dermal contact with groundwater by the hypothetical future construction worker and (2) inhalation of VOCs by the hypothetical future construction worker (CH2M HILL 2009c).

Several constituents exceeded the USEPA Region 3 tap water RBCs; however, a restriction on the use of groundwater as a drinking water source for the affected offsite properties is an integral part of this CMP, so the drinking water scenario was not further evaluated quantitatively. The HHRA concluded that groundwater does not pose unacceptable human health risks for the hypothetical future construction worker (CH2M HILL 2009c).

2.3.2 Ecological Risk

Wildlife habitat is present at the facility in upland areas and associated with select water features. These habitats are used by both terrestrial and aquatic receptors. Significant ecological habitats and potential complete exposure pathways were identified for the following areas:

- Ward Branch
- Ward A Landfill (SWMU 3)
- Ward B Landfill (SWMU 3)
- SWMU 5
- SWMU 70
- Tributary to Davis Creek

A pathway analysis identified the following potential receptor groups for the surface water/sediment pathway (Ward Branch, Ward A Landfill, Ward B Landfill, and the tributary to Davis Creek):

- Aquatic invertebrates
- Fish
- Semiaquatic wildlife (i.e., birds and mammals)
- Soil pathway (Ward A Landfill, SWMU 5, and SWMU 70)
- Plants
- Soil invertebrates
- Wildlife (i.e., birds and mammals)

A screening level ecological risk assessment (SLERA) was conducted for each area that addressed the identified pathways and receptors. Based on the results of the SLERA, a baseline ecological risk assessment (BERA) was conducted at Ward A Landfill (SWMU 3) to refine the risk conclusions.

A summary of the risk assessment conclusions by area is presented below. The results are presented by exposure media (that is, surface water, sediment, and soil).

Ward Branch

Surface Water The SLERA tentatively identified six chemicals of potential concern (COPCs) in surface water (barium; manganese; 3,4-methylphenol; bis(2-chloroisopropyl)ether; phenol; and naphthalene) posing potential unacceptable risks to aquatic receptors from direct exposure. No surface water COPCs were associated with potential food web exposure (CH2M HILL 2010).

Sediment Five COPCs (beryllium, iron, manganese, thallium, and total PAHs) were identified as COPCs in sediment. No sediment COPCs were associated with potential food web exposure (CH2M HILL 2010).

Conclusions The SLERA concluded that based on the reliability of the screening values, the use of the maximum concentration as the exposure point concentration (EPC), and magnitude of exceedance, there was limited potential for adverse effects to ecological receptors from these COPCs, and no further action is required to address risk to the ecological resources of Ward Branch (CH2M HILL 2010).

Ward A Landfill

Surface Water The SLERA tentatively identified 10 COPCs (barium, cyanide, iron, lead, manganese, nickel, selenium, 3- and 4-methylphenol, and phenol) posing potential risks to aquatic receptors from direct exposure. No surface water COPCs were associated with potential food web exposure (CH2M HILL 2006).

The tentatively identified surface water COPCs were associated with one sample location (TCF-WardA13) adjacent to the discharge point for the central drain. In 2007, a sump and associated piping were installed to reroute water from the central drainage line to Holz Impoundment (Figure 2-10). The sump was modified in 2008 to allow water to discharge into Ward A Landfill if the flow in the central drain line exceeded the capacity of the piping. Additional data were collected to characterize this potential discharge. Sampling tentatively

identified barium and phenol as COPCs based on potential risk to aquatic receptors exposed to Ward A Landfill surface water. However, based on further analysis of the reliability of the screening values and magnitude of exceedance, there is limited potential for adverse effects to ecological receptors from barium and/or phenol in surface water (CH2M HILL 2010).

Sediment The SLERA tentatively identified seven COPCs (arsenic, copper, manganese, mercury, nickel, selenium, and total polychlorinated biphenyls [PCBs]) posing potential risks aquatic receptors from direct exposure. Mercury and total PCBs were retained as COPCs for food web exposures. Based on this, it was determined that a BERA was warranted.

The following data gaps were identified and filled before conducting the BERA:

- Dioxin and furan analysis in surficial sediment. Dioxins and furans were not analyzed in the original sampling, and given the waster disposal history, there was a reasonable potential of the presence in Ward A sediment.
- Mercury and silver in surficial sediment. Mercury and silver were identified as COPCs in surficial sediment during the SLERA. The risk estimates for these COPCs were based on reporting limits (that is, sample-specific nondetect value) and not actual quantified concentrations. Analysis with method detection limits (MDLs) less than screening values was needed to reduce the uncertainty of the risk estimates.
- PCBs in surficial sediment. Sample numbers and distribution collected during the initial investigation was not adequate to quantify the magnitude and distribution of potential risk from PCBs.

The BERA determined no unacceptable risk to upper trophic level receptors in Ward A Landfill. Five COPCs (beryllium, manganese, selenium, thallium, and bis(2-chloroisopropyl) ether) were tentatively identified based on potential risk to benthic organisms from exposure to Ward A Pond sediment. However, based on further analysis of the reliability of the screening values and magnitude of exceedance, there is limited potential for adverse effects to ecological receptors from these COPCs in sediment (CH2M HILL 2010).

Surface Soil During the data gaps analysis, surface soil was identified as a potential exposure media. Based on a review of historical aerial photographs, some of the surface soil areas around Ward A Landfill were under water when the impoundment was active; therefore, COPCs may be present in Ward A Landfill surface soil, which could pose unacceptable risks to ecological receptors. It was determined that surface soil needed to be characterized to determine if there were risks to ecological receptors.

Soil-associated total PCBs and dioxins/furans (as toxic equivalents [TEQs]) were tentatively identified as COPCs based food web exposure. Twelve COPCs (cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, vanadium, zinc, and total PCBs) were tentatively identified based on potential risk to soil invertebrates and terrestrial plants from exposure to Ward A Landfill soil. Based on further analysis of the reliability of the screening values and magnitude of exceedance, there is limited potential for adverse effects to soil invertebrates and terrestrial plants from the inorganic COPCs in soil. Unacceptable risk from total PCBs and dioxins/furans appear to be associated with a single sample

location. Given the apparent uniqueness of this sample, supplemental sampling was conducted to verify and delineate the extent of elevated concentrations. The results showed that these levels are isolated to that sample location. Given the limited exposure potential, PCB and dioxins/furans contamination are not expected to pose unacceptable risks to ecological receptors (CH2M HILL 2010).

Conclusions The BERA concluded that based on a number of conservative assumptions and uncertainties in the assessment, that there was limited potential for adverse effects to ecological receptors from the tentatively identified COPCs, and no further action is required to address risk to the ecological resources of Ward A Pond (CH2M HILL 2010).

Ward B Landfill

Surface Water No COPCS were identified for surface water associated with the Ward B Landfill (CH2M HILL 2006).

Sediment The SLERA tentatively identified three COPCs (iron, manganese, and nickel) posing potential risks to aquatic receptors from direct exposure. No surface water COPCs were associated with potential food web exposure (CH2M HILL 2006).

Conclusions The SLERA concluded that based on the reliability of the screening values, the use of the maximum concentration as the EPC, and magnitude of exceedance, that there was limited potential for adverse effects to ecological receptors from these COPCs, and no further action is required to address risk to the ecological resources of Ward Branch (CH2M HILL 2006).

SWMU 5

Three COPCs (barium, mercury, and silver) were tentatively identified in soil at SWMU 5 that may pose risk to soil invertebrates and plants. No soil COPCs were associated with potential food web exposure (CH2M HILL 2007). Based on the small size of the SWMU, and the magnitude and frequency of the screening value and background exceedances, potential ecological risks fall within the acceptable range (CH2M HILL 2007).

Tributary to Davis Creek

The SLERA compared constituents detected in the surface water and sediment of a small stream downgradient of SWMUs 5 and 70 to conservative ecological screening values. No exceedances were observed in either medium, indicating no potential for unacceptable risk (CH2M HILL 2007).

SWMU 70

The SLERA tentatively identified barium and mercury as COPCs posing risk to soil invertebrates and plants at SWMU 70. No soil COPCs were associated with potential food web exposure (CH2M HILL 2007). Based on the small size of the SWMU, and the magnitude and frequency of the screening value and background exceedances, potential ecological risks fall within the acceptable range for the constituents, except for mercury. For mercury, a supplemental evaluation was conducted with surface soil samples collected in 2005 and 2006 that compared the detected results to a range of toxicological values. The supplemental evaluation showed that some detected concentrations exceeded the toxicological values on

the low end of the range; however, no samples exceeded those on the high end of the range (CH2M HILL 2007). Based on this, the supplemental evaluation concluded that potential ecological risks fall within the acceptable range (CH2M HILL 2007).

SECTION 3

Proposed Corrective Measures

This CMP was developed to protect human health and the environment by addressing the potential risks described in Section 2.3 under current and proposed future land use scenarios. This section describes the proposed final corrective measures for each parcel at the facility. The proposed corrective measures will be presented by parcel (Tracts A, B, C and D) in the following sections consistent with the manner that the facility has been subdivided for future development. The proposed remedy for groundwater however, will be presented for the entire facility because groundwater is managed on a site-wide basis.

Seventy SWMUs and four investigation areas were identified at the facility. The results of the evaluation of each of these areas in summarized in Table 2-2. No further corrective action is required for any of the SWMUs or investigation areas other than those associated with the individual tracts where they are located.

3.1 Groundwater

There are two discrete areas of groundwater contamination at the facility, which are in Ward Hollow (Figure 2-6) and the Greenhouse Area (Figure 2-7) respectively.

The Lower Ward Landfill, Ward A and B Landfills, and potentially the former brine wells are impacting groundwater in Ward Hollow. Contaminated groundwater is migrating from these sources to the underlying weathered bedrock and then downgradient. The Ward Hollow groundwater contamination extends offsite onto WVDOT property and potentially onto CSX Transportation property.

The source of groundwater contamination in the Greenhouse Area is unknown. There are two monitoring wells screened in the Mahoning Sandstone (WVU-MW04 and MW-104A) that have shown detectable concentrations of VOCs above screening criteria. Impacts to groundwater in this area appear to be limited in extent based on data from other monitoring wells near this area.

3.1.1 Remedial Action Objective

The remedial action objectives for groundwater have been identified to eliminate exposure pathways. The following objectives were developed considering the current and reasonably expected future land use opportunities for the facility and surrounding area.

- Prevent the use of groundwater at the facility and the affected offsite properties to eliminate future exposures to groundwater. This objective was identified to address potentially complete exposure pathways where concentrations of constituents exceed the MCL or (if a MCL is not available) the adjusted tap water RSL.
- Prevent the use of groundwater at the facility and the affected offsite properties to eliminate the potential for causing contaminant migration.

3.1.2 Interim Corrective Measures

Before the Lower Ward Landfill was constructed, a 78-inch-diameter culvert pipe was installed at the bottom of the valley to carry surface water in Ward Branch from the upper part of Ward Hollow through Lower Ward Landfill. In 1964, the facility started using the culvert to capture leachate from the landfills and prevent it from discharging to Ward Branch. Leachate in the culvert (estimated to be 15 to 20 gallons per minute) is intercepted by the catch basin (Building 730) at the base of the Lower Ward northern dike and is transferred to the South Charleston POTW via the Holz Impoundment decant line (Figure 3-1). The culvert and the catch basin collectively are referred to as the Lower Ward Leachate Collection System (SWMU 2).

3.1.3 Summary of Risks

Evaluations have shown that human exposures to groundwater are under control for the facility and the offsite affected properties; however, there is a potential for future unacceptable human health risks related to exposure to contaminated groundwater. In addition, there is a potential future risk for groundwater use to change the aquifer flow patterns and, therefore, constituent migration.

3.1.4 Evaluation of Proposed Final Corrective Measures

Ward Hollow Groundwater

For the Ward Hollow groundwater plume, potential corrective measures were evaluated to meet the remedial objectives for the facility. Technologies were evaluated against the National Contingency Plan (NCP) threshold criteria (protectiveness of human health and the environment, compliance with applicable or relevant and appropriate requirements) and balancing criteria (reduction of toxicity, mobility and volume through treatment, long-term and short-term effectiveness; sustainability; implementability; and cost). A description of each technology is provided in Table 3-1, including a summary of the evaluation against the criteria. Based on the technologies evaluated, four possible alternatives were developed which are discussed below.

- Alternative 1 – Long-Term Groundwater Monitoring:
  - Continued operation of the Lower Ward Leachate Collection System
  - Long-term groundwater monitoring
  - Institutional controls (onsite and offsite) to prohibit the use of groundwater for purposes other than monitoring or remediation
- Alternative 2 – Ward A Landfill Cover:
  - Continued operation of the Lower Ward Leachate Collection System
  - Covering Ward A Landfill to reduce infiltration
  - Long-term groundwater monitoring
  - Institutional controls (onsite and offsite) to prohibit the use of groundwater for purposes other than monitoring or remediation

- Alternative 3 – Groundwater Recovery System:
  - Continued operation of the Lower Ward Leachate Collection System
  - Install vertical recovery wells in Ward Hollow to prevent contaminated groundwater from migrating offsite
  - Long-term groundwater monitoring
  - Institutional controls (onsite and offsite) to prohibit the use of groundwater for purposes other than monitoring or remediation
- Alternative 4 – Source Removal:
  - Remove the waste material in the landfills and transporting it to an offsite disposal facility
  - Long-term groundwater monitoring
  - Institutional controls (onsite and offsite) to prohibit the use of groundwater for purposes other than monitoring or remediation

Greenhouse Area

Within the remaining facility area outside of Ward Hollow, there are only observed impacts in two monitoring wells. These wells are within the Greenhouse Area. The concentrations in these two monitoring wells are relatively low (for example, less than 100 micrograms per liter [µg/L]) and appear to be stable or decreasing over time. Because of these factors, the only corrective measures evaluated for the remaining facility area are institutional controls to prohibit the use of groundwater and long-term monitoring for the impacted monitoring wells in the Greenhouse Area.

3.1.5 Proposed Final Corrective Measures

Ward Hollow Groundwater

Alternative 1 consisting of continued operation of the Lower Ward Leachate Collection System, long-term groundwater monitoring, and restrictions to prohibit the use of groundwater (onsite and offsite) for purposes other than monitoring or remediation was selected as the corrective measure for the Ward Hollow groundwater plume.

Groundwater use restrictions will be established through a West Virginia Environmental Covenant; Appendixes C and D contain draft language for the covenants that will be applied. It is anticipated that six covenants will be necessary, four for the facility (Appendix C), one for the WVDOT property (Appendix D), and one for the CSX Transportation property (Appendix D). Figure 3-2 shows the approximate offsite area where restrictions will be applied. Long-term groundwater monitoring will be implemented in accordance with the facility groundwater monitoring plan (CH2M HILL 2009d). Operations and maintenance (O&M) activities will be performed in accordance with the O&M manual (Appendix E).

Factors that contributed to its selection include the following:

- There are no current unacceptable risks from exposure to groundwater.
- There are no groundwater extraction or pumping wells (either for municipal or production purposes) in the area and city water is available. In addition, the impacted aquifer is low yielding, so it is not a practical source of potable water.
- Groundwater monitoring data demonstrate that the groundwater plume is stable and is not expanding, and the constituent concentrations do not show an increasing trend.
- Groundwater use restrictions involve prohibiting the use of groundwater at the facility and on offsite properties consisting of a public roadway and railroad, both of which have agreed to these restrictions (Appendix C). These restrictions are necessary regardless of the alternative because improvements in groundwater quality would not expect to be observed for some time under any of the alternatives.

The other remedial alternatives were rejected for the following reasons:

- Alternative 2 (Ward A Landfill Cover): Placing a cover over the Ward A Landfill would reduce infiltration of precipitation into the underlying waste materials and possibly leaching of constituents to groundwater. However, because the landfills are unlined and the base of the landfills is below the water table, leaching of waste materials to groundwater would not be eliminated by this action. In addition, covering the scenic pond would destroy the existing aquatic habitat and natural resources that exist in this area. The costs for installing a cover are prohibitively expensive at approximately $15 million and are not justified relative to the incremental benefit.
- Alternative 3 (Groundwater Recovery System): Because the groundwater plume is documented to be stable and there are no current exposures, a groundwater recovery system is not necessary to protect human health or the environment. An additional consideration is that a groundwater recovery system is not considered a "green and sustainable" environmental solution because the system would need to run indefinitely generating carbon emissions and wastes for treatment that would not otherwise be generated. In addition, there are additional costs for continued O&M of a groundwater recovery system that provides minimal to no environmental benefit.
- Alternative 4 (Source Removal): Removal of waste materials from the landfills is not considered a practical option because of the large volume of waste material (approximately 4 million cubic yards) present. The cost of removal is excessively expensive at an estimated cost of over $400 million. In addition, the removal and transport of waste materials would generate significant carbon emissions and potential safety issues.

Greenhouse Area

The proposed final corrective measures selected for groundwater in the Greenhouse Area comprise long-term groundwater monitoring and restrictions to prohibit the use of groundwater (onsite) for purposes other than monitoring or remediation.

Factors that contributed to its selection include the following:

- There are no current unacceptable risks from exposure to groundwater.
- There are no groundwater extraction or pumping wells (either for municipal or production purposes) in the area and city water is available. In addition, the impacted aquifer is low yielding, so it is not a practical source of potable water.
- Groundwater monitoring data demonstrate that the constituent concentrations appear to be stable or decreasing over time.
- Groundwater use restrictions consist only of prohibiting the use of groundwater at the facility.

Groundwater use restrictions will be established by implementing a West Virginia Environmental Covenant; Appendix C contains draft language for the covenant that will be applied. Long-term groundwater monitoring for the Greenhouse Area will continue in accordance with the facility groundwater monitoring plan (CH2M HILL 2009d). Groundwater use restrictions will be monitored in accordance with the O&M manual (Appendix E).

Sitewide Groundwater

A groundwater use restriction will be applied to groundwater across the entire facility as a conservative measure to eliminate any future use of groundwater and to prevent the migration (due to pumping) of impacted groundwater associated with the Ward Hollow and Greenhouse Area groundwater contamination. The groundwater use restrictions will be established by implementing a West Virginia Environmental Covenant. Appendix C contains draft language for the covenants that will be applied. Groundwater use restrictions will be monitored in accordance with the O&M manual (Appendix E).

3.2 Tract A

This subsection discusses corrective measures required for Tract A. These measures are in additional to those discussed for groundwater in Section 3.1. Tract A is within the eastern portion of the facility. The northern portion of Tract A is mostly developed; however, a large portion of this tract to the south and west is undeveloped. The majority of the SWMUs identified for the facility are within this tract (Table 2-2).

For the purpose of this CMP, Tract A has been further subdivided based on the proposed future land use for this tract (Figure 2-3).

3.2.1 Unrestricted Land Use Area

No restrictions are proposed for this area in the undeveloped portion of Tract A, with the exception of the groundwater restriction discussed in Section 3.1. Figure 3-3 shows the proposed unrestricted land use areas. Historical land use and facility investigation information indicate no evidence in this area of current or past industrial development, process areas, waste management facilities, or disposal areas (with the exception of SWMU 5 and 69). SWMUs 5 and 69 are both former disposal areas. The contents of these

former disposal areas were removed in the 1990s and transported to an offsite landfill for disposal (UCC 1998). In 2004, soil sampling was completed at SWMU 5. The analytical results from the soil sampling did not exceed residential or industrial screening levels (CH2M HILL 2008).

3.2.2 Industrial/Commercial Land Use Area

The industrial/commercial land use area for Tract A is depicted on Figure 3-3. This area includes the portion of Tract A not proposed for unrestricted land use (Section 3.3.1) and consists of both developed and undeveloped areas. There are 53 SWMUs identified in this area; however, 15 of them do not meet the definition of a SWMU. The other SWMUs consist of current or former disposal areas, waste accumulation areas, waste storage tanks, sumps, boilers, and incinerators (Table 2-2). The four investigation areas also fall within the industrial/commercial land use area for Tract A.

Remedial Action Objectives

Remedial action objectives have been identified to eliminate exposure pathways. The following objectives were developed considering the current and reasonably expected future land use opportunities for the facility.

- Prevent potential unacceptable human health risks related to exposure to impacted soil
- Prevent potential unacceptable human health risks related to exposures to impacts in groundwater through vapor intrusion into new buildings

Interim Corrective Measures

Several interim corrective measures have been applied to SWMUs and investigation areas within Tract A; these are summarized in Table 2-2.

Summary of Risks

In addition to the potentially complete exposure pathways for groundwater use (Section 3.1), there is the potential for unacceptable human health risks related to direct contact with soil. In surface soil (0 to 2 feet bgs), arsenic exceeds both the adjusted industrial soil RSL and the mean West Virginia background concentration; however, only two locations (TCF-0090 and TCF-0094) exceed the maximum West Virginia background concentration (13 mg/kg) (Figure 2-8). Arsenic concentrations at TCF-0090 (14.8 mg/kg) and TCF-0094 (13.6 mg/kg) are only slightly above the maximum West Virginia background concentration, and there is no indication based on adjacent samples that these arsenic concentrations are related to facility impacts; therefore, these concentrations are considered representative of regional background conditions.

In subsurface soil, arsenic concentrations exceed the adjusted industrial soil RSL but are below the maximum West Virginia background concentration (13 mg/kg). For subsurface soil, tetrachloroethene and several PAHs also exceed the adjusted industrial soil RSLs in two isolated areas. Tetrachloroethene concentrations exceed the adjusted industrial soil RSL at SB-02 (2 to 4 feet bgs), and PAHs exceed the adjusted industrial soil RSL at TCF-0141 (4 to 6 feet bgs) (Figure 2-8). Based on these exceedances, corrective measures are warranted for select areas of the developed portion of Tract A.

There is a future potential risk for vapor intrusion into new buildings that might be located in areas of Tract A where VOCs are present in soil or groundwater or areas of Tract A that are adjacent to the landfills. Corrective measures for potential future unacceptable human health risks related to vapor intrusion are warranted for these areas. Existing buildings in these areas (e.g., Building 706, 707, and 771) where vapor intrusion was identified as a potential risk have been evaluated, and it has been determined that there is no risk to these buildings.

Evaluation of Proposed Final Corrective Measures

For the Tract A industrial/commercial use area, corrective measures were evaluated to meet the remedial objectives for the facility based on multiple criteria including long-term and short-term effectiveness, sustainability, implementability, and cost. Corrective measures evaluated include:

- Alternative 1 – Institutional Controls:
  - Restrict land use to industrial/commercial
  - Institutional control to address potential future contact with impacted soil or movement of impacted soil
  - Institutional control to address potential vapor intrusion into new buildings
- Alternative 2 – Limited Soil Excavation:
  - Restrict land use to industrial/commercial
  - Institutional control to address potential future contact with impacted soil or movement of impacted soil
  - Institutional control to address potential vapor intrusion into new buildings
  - Excavation and offsite disposal of soil impacts above the adjusted industrial soil RSLs and the maximum West Virginia background concentrations (metals only)

Note that alternatives that would utilize engineering controls for impacts in soil, such as soil or asphalt covers, were not evaluated for Tract A because of the limitation these corrective measures may have on future development.

Proposed Final Corrective Measures

The proposed final corrective measures for the Tract A industrial/commercial land use area consist of institutional controls to manage direct contact risks for soil and risks related to vapor intrusion into new buildings. These restrictions will contain the following elements:

- Restrict land use to industrial/commercial
- Require invasive earthwork to be conducted under proper supervision and using appropriate safety precautions (select areas only, as shown on Figure 3-3)
- Prohibit movement of soil off the facility unless it is determined that the soil can lawfully be moved (same areas where invasive earthwork restrictions are required)

- Require a demonstration that there is no potential unacceptable risk due to vapor intrusion before construction of new occupied buildings or incorporate engineering controls into the new building to limit potential vapor exposure (select areas only, as shown on Figure 3-3)

Institutional controls will be established by implementing a West Virginia Environmental Covenant; Appendix C contains draft language for the covenant that will be applied. The proposed areas where these institutional controls will be applied in Tract A are shown on Figure 3-3 and will be documented as part of the Environmental Covenant after the Statement of Basis is finalized. Institutional controls will be monitored in accordance with the O&M manual (Appendix E).

Factors that contributed to its selection include the following:

- The current and proposed future use for this area is consistent with the land use restriction.
- Arsenic is the only constituent above the adjusted industrial soil RSL in surface soil; however, these concentrations are considered representative of regional background conditions.
- With the exception of arsenic, which is below the maximum West Virginia background concentration, there are only two locations where subsurface soil concentrations exceed the adjusted industrial soil RSL and these exceedances are localized.

The other remedial alternative was rejected because there are only isolated impacts in subsurface soil (not surface soil) so there are no currently complete exposure pathways. Future risks related to direct contact with soil will be managed by utilizing institutional controls so excavation and offsite disposal of impacted soils is not necessary.

3.3 Tracts B and C

This subsection discusses corrective measures required for Tracts B and C in addition to those discussed for groundwater in Section 3.1. Tracts B and C, located on the northeastern edge of the facility, are the smallest tracts at the facility. The primary use for these tracts is currently office space and parking. There are four SWMUs within these two tracts; however, two of these SWMUs (46 and 47) are cooling towers that do not meet the definition of a SWMU. In addition, through historical file reviews, it was determined that SWMU 65 was not used to manage waste (Table 2-2). The only remaining SWMU within this area is SWMU 60, which is an active waste transfer area that manages printing chemicals for short durations. There have been no known releases from this SWMU.

Remedial Action Objectives

The remedial action objective identified for Tracts B and C is to prevent potential unacceptable human health risks related to exposures to impacts in groundwater through vapor intrusion into new buildings.

Interim Corrective Measures

There are no interim corrective measures that have been conducted at Tract B or C.

Summary of Risks

In addition to the potentially complete exposure pathways for groundwater use (Section 3.1), corrective measures for potential unacceptable human health risks related to vapor intrusion are warranted for the portions of Tracts B and C adjacent to the landfills where new buildings may be constructed. Existing buildings in these tracts (e.g., Building 2000 and 6000) where vapor intrusion was identified as a potential risk have been evaluated, and it has been determined that there is no risk to these buildings.

Proposed Final Corrective Measures

The proposed final corrective measures for Tracts B and C consist of institutional controls to manage potential risks related to vapor intrusion into new buildings. These restrictions will contain the following elements:

- Restrict land use to industrial/commercial
- Require a demonstration that there is no potential unacceptable risk due to vapor intrusion before construction of new occupied buildings or incorporate engineering controls into the new building to limit potential vapor exposure for structures within 100 feet of the landfills

Institutional controls will be established by implementing a West Virginia Environmental Covenant; Appendix C contains draft language for the covenant that will be applied. The proposed areas where these institutional controls will be applied in Tracts B and C are shown on Figure 3-4 and will be documented as part of the Environmental Covenant after the Statement of Basis is finalized. Institutional controls will be monitored in accordance with the O&M manual (Appendix E).

3.4 Tract D

This subsection discusses corrective measures required for Tract D in additional to those discussed for groundwater in Section 3.1. Tract D is the largest tract at the facility. The southern and northern portions of Tract D are mostly undeveloped, while the central portion is comprised of the landfills. For the purpose of this CMP, Tract D has been further subdivided based on the proposed future land use for this tract (Figure 2-3). Note that Tract D encompasses Holz Impoundment, which is not part of the facility and, therefore, is not addressed in this CMP.

3.4.1 Unrestricted Land Use Area

No restrictions are proposed for this area in the undeveloped portion of Tract D, with the exception of the groundwater restriction discussed in Section 3.1. Figure 3-5 shows the proposed unrestricted land use area. Historical land use and facility investigation information indicate no evidence in this area of current or past industrial development, process areas, waste management facilities, or disposal areas.

3.4.2 Industrial/Commercial Land Use Areas

The area proposed to be used for industrial/commercial land use is depicted on Figure 3-5.

Remedial Action Objectives

Remedial action objectives have been identified to eliminate exposure pathways. The following objectives were developed considering both the current and reasonably expected future land use opportunities for the facility.

- Prevent potential unacceptable human health risks related to exposure to impacted soil or waste material
- Prevent potential unacceptable human health risks related to exposures to impacts in groundwater through vapor intrusion into new buildings

Interim Corrective Measures

The Lower Ward Landfill was covered with 18 inches of clay cover and seeded in 1965. In 1978, half of the landfill was paved and converted into a parking lot.

Summary of Risks

A cover is in place that prevents direct contact with waste materials in Lower Ward Landfill. There are no occupied buildings within the Tract D industrial/commercial land use area; however, it is possible that occupied buildings may be constructed in this area in the future. Because of the presence of VOCs in waste material in Lower Ward Landfill and in the Ward Hollow groundwater plume, corrective measures for potential unacceptable human health risks related to vapor intrusion are warranted for this area.

Evaluation of Proposed Final Corrective Measures

For the Tract D industrial/commercial land use area, corrective measures were evaluated to meet the remedial objectives for the facility based on multiple criteria including long-term and short-term effectiveness; sustainability; implementability; and cost. Corrective measures evaluated include:

- Alternative 1 – Institutional Controls:
  - Restrict land use to industrial/commercial
  - Institutional control to address potential future contact with impacted soil or waste material
  - Institutional control to prohibit the movement of soil or waste material off the facility unless it is determined that the soil can lawfully be moved
  - Institutional control to address potential vapor intrusion into new buildings
- Alternative 2 – Source Removal:
  - Restrict land use to industrial/commercial
  - Institutional control to address potential vapor intrusion into new buildings
  - Remove waste material from the landfills and transport it to an offsite disposal facility

Proposed Final Corrective Measures

The proposed final corrective measures for the Tract D industrial/commercial land use area consist of maintaining the cover over Lower Ward Landfill and institutional controls to manage potential direct contact risks for soil or waste material, and potential risks related to vapor intrusion into new buildings. These restrictions will contain the following elements:

- Restrict to industrial/commercial use
- Require invasive earthwork to be conducted under proper supervision and utilizing appropriate safety precautions
- Prohibit movement of soil or waste material off the facility unless it is determined that it can lawfully be moved
- Require a demonstration that there is no potential unacceptable risk due to vapor intrusion before construction of new occupied buildings or incorporate engineering controls into the new building to limit potential vapor exposure

Institutional controls will be established by implementing a West Virginia Environmental Covenant; Appendix C contains draft language for the covenant that will be applied. The proposed areas where these institutional controls will be applied in Tract D are shown on Figure 3-5 and will be documented as part of the Environmental Covenant after the Statement of Basis is finalized. Landfill inspections and maintenance will be conducted in accordance with the O&M manual (Appendix E). In addition, institutional controls will be monitored in accordance with the O&M manual (Appendix E).

The other remedial alternative was rejected because removal of waste materials from the landfills is not considered a practical option because of the large volume of waste material present (as discussed in Section 3.1.5). The cost of removal is excessively expensive at an estimated cost of over $400 million.

3.4.3 Recreational Land Use Area

The recreational land use area is shown on Figure 3-5. This area is limited to SWMU 3 (Ward A and Ward B Landfills) and the area surrounding SWMU 3.

Remedial Action Objective

Remedial action objectives have been identified to eliminate potential exposure pathways. The following objectives were developed considering both the current and reasonably expected future land use opportunities for the facility.

- Prevent potential unacceptable human health risks related to exposure to impacted soil or waste material
- Prevent potential unacceptable human health risks related to exposures to impacts in groundwater through vapor intrusion into new buildings

Interim Corrective Measures

Interim corrective measures that have been applied to the recreational land use area are discussed below.

- Ward B Landfill Cover – The cover was installed in the 1970s as a clay soil mix to reduce potential exposure to waste material. The average cover thickness across the landfill is 5.75 feet (Key Environmental 2001). In 2002, additional cover material was added where the cover was thin or non-existent near the bottom of the drainage ditches (CH2M HILL 2004).
- Ward B Central Drain Sump Pumping System – The central and formerly open drainage channel was modified by installing perforated high-density polyethylene (HDPE) piping buried under aggregate cover to eliminate direct contact with waste materials. The perforated piping is referred to as the central drainage line, and it discharged in Ward A Pond until 2007, when the discharge was rerouted to the Holz Impoundment and the previously uncovered aggregate was covered with soil. The sump was modified in 2008 to allow water to discharge into Ward A Pond if the flow in the central drain line exceeded the capacity of the piping. Additional details on the Ward B central drain sump pumping system are provided in the construction completion report (Appendix F).

Summary of Risks

Human health risk evaluations have shown no unacceptable human health risks related to Ward A Landfill for the proposed land use. A cover is in place that prevents directs contact with the waste materials in Ward B Landfill. There are no buildings within the Tract D recreation land use area; however, buildings may be constructed in the area outside the boundary of the landfills in the future. Because of the presence of VOCs in the waste material of the Ward A and B Landfills, corrective measures for potential unacceptable human health risks related to vapor intrusion are warranted for the landfills and the area within 100 feet of the landfills.

The area surrounding the Ward A and B Landfills is assumed to be unimpacted; however, the area will be limited to recreational use based on UCC's desired future land use for this area (e.g., the wildlife habitat area).

Proposed Final Corrective Measures

The proposed final corrective measures for the Tract D recreational land use area consist of a landfill cover over Ward B Landfill, continued operation of the Ward B Central Drain Sump Pumping System, and institutional controls to manage potential direct contact risks for soil or waste material and potential risks related to vapor intrusion into new buildings. These restrictions will contain the following elements:

- Restrict to recreational uses that would result in only periodic limited use of the area such as hiking, jogging, wildlife viewing, and ecological studies
- Require invasive earthwork to be conducted under proper supervision and utilizing appropriate safety precautions (for the landfills and area within 100 feet of the landfills)

- Prohibit movement of soil or waste material off the facility unless it is determined that it can lawfully be moved (for the landfills and area within 100 feet of the landfills)
- Require a demonstration that there is no potential unacceptable risk due to vapor intrusion before construction of new occupied buildings or incorporate engineering controls into the new building to limit potential vapor exposure (for the landfills and area within 100 feet of the landfills)

Institutional controls will be established by implementing a West Virginia Environmental Covenant; Appendix C contains draft language for the covenant that will be applied. The proposed areas where these institutional controls will be applied in Tract D are shown on Figure 3-5 and will be documented as part of the Environmental Covenant after the Statement of Basis is finalized. Landfill inspections and maintenance will be conducted in accordance with the O&M manual (Appendix E). In addition, institutional controls will be monitored in accordance with the O&M manual (Appendix E).

SECTION 4

Schedule

Figure 4-1 shows a detailed schedule to submit the Statement of Basis, implement the institutional controls, and transfer the facility from the USEPA Facility Lead Agreement to a WVDEP permit.

SECTION 5

References

CH2M HILL. 2004. *RCRA Facility Investigation Workplan for Solid Waste Management Units, South Charleston Technical Center*. May.

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Tables

TABLE 2-1

Documents Summarizing Site Conditions

Corrective Measures Proposal

UCC Technology Park

South Charleston, West Virginia

Document Number	Document Title	Submitted By	Date
1	**CMP Appendix A** - UCC Technology Park Employee Interviews and File Review for the Greenhouse Area	CH2M HILL	Aug-08
2	Union Carbide Corporation, Technology Park Groundwater Screening-Level Assessment	CH2M HILL	Feb-09
3	Final Human Health Risk Assessment for Ward A Pond, Ward Branch, Human Health Risk Assessment for Ward A Pond, Ward Branch, and Vapor Intrusion	CH2M HILL	Nov-09
4	Buildings 706 and 707 Area Soil Investigation, Removal Action, and Vapor Intrusion Human Health Risk Assessment	CH2M HILL	Dec-09
5	Final Groundwater Monitoring Plan	CH2M HILL	Dec-09
6	Ward A Pond Sediment Investigation Report	CH2M HILL	Dec-09
7	Final Screening Level Ecological Risk Assessment for Ward Branch and Baseline Ecological Risk Assessment for Ward A Pond	CH2M HILL	Jan-10
8	Screening Level Ecological Risk Assessment for Ward Branch and Baseline Ecological Risk Assessment for Ward A Pond	CH2M HILL	Jan-10
9	**CMP Appendix D** - UCC Technology Park Supplemental Investigations	CH2M HILL	Feb-10

TABLE 2-2
SWMUs and Investigation Areas Summary Table
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

SWMU No.	Tract	Unit Name	Unit Location	SWMU Classification[1]	Operational Status (as of March 2008)[2]	Wastes Managed	History of Release[3]	Interim Measures	Previous Investigation Results
1	D	Lower Ward Landfill	Located west of Building 2000	B	Inactive	The landfill was used for disposal of fly ash from the South Charleston Facility (SCF), municipal sludge, oxide tails from the SCF propylene oxide production unit, wastes from general chemical operations, and small amounts of organic chemicals.	This landfill and Ward A/B landfill are the sources for the groundwater contamination in Ward Hollow.	Covered with 18 inches of clay cover and seeded in 1965. Half the surface was paved in 1978. Since 1970s, some of the leachate has been collected in SWMU 2.	Groundwater in Ward Hollow is being impacted by Solid Waste Management Unit (SWMU) 1 and SWMU 3. Contaminated groundwater is migrating from these sources to the underlying weathered bedrock and then downgradient into Ward Hollow. The most prominent constituents that are present within the groundwater plume are: 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; arsenic; and barium (CH2M HILL 2009d). To evaluate the potential for vapor intrusion into nearby buildings, soil gas and indoor air sampling was conducted. Human health risks were evaluated in a human health risk assessment (HHRA) which concluded that current and future human health exposure would not result in unacceptable human health risks (CH2M HILL 2009d).
2	D	Lower Ward Leachate Collection System	Located north of Lower Ward Landfill (SWMU 1) inside Building 730	B	Active	Leachate could contain constituents that were deposited in the Lower Ward Landfill.	Strong chemical odor was observed during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) emanating from the leachate collected.	In 1970, two pumps were installed at Building 730 to pump the leachate from the leachate collection system to the South Charleston Publicly Owned Treatment Work (POTW).	Water samples collected from the Lower Ward leachate collection system show similar constituent found in Ward Hollow wells (CH2M HILL 2008).
3	D	Ward A/B Landfill	Located south of Lower Ward and the Main Technology Park complex	A	Ward A: Inactive Ward B: Inactive	The landfill was used for disposal of fly ash from the SCF, municipal sludge, and oxide tails from the SCF propylene oxide production unit.	This landfill and Lower Ward Landfill are the source of groundwater contamination in Ward Hollow.	(1) In 1969 and 1977 a flow of water was observed west of the upper dike; this was corrected after each observation. (2) Ward B was covered with a clay-soil mix in the 1970s. (3) Breached and thin areas in the cover at Ward B were repaired following the 2001 RFI investigation. (4) Central drain line sump pumping system was	Soil, sediment, surface water, soil gas, and indoor air sampling have been conducted to evaluate impacts related to this SWMU. Ecological risks were evaluated in Ward A/B Screening Level Ecological Risk Assessment (SLERA) (CH2M HILL 2006) and the Ward A Pond Baseline Ecological Risk Assessment (CH2M HILL 2010); these reports concluded that no unacceptable risks to ecological receptors are expected. Human health risks were evaluated in a HHRA which concluded that current and future human health exposure to evaluated media would not result in unacceptable human health risks (CH2M HILL 2009b).
4	D	Upper Ward A/B Landfills Overflow System Including Outfall 008	Located at north end of the pond that covers Ward A	A	Active	May contain constituents that were deposited in the Ward A/B Landfill.	None	None	Surface water and sediment sampling have been conducted to evaluate impacts related to SWMU 3. Ecological risks were evaluated in the Ward Branch SLERA (CH2M HILL 2010); this evaluation concluded that no unacceptable risks to ecological receptors are expected. Human health risks were evaluated in a HHRA which concluded that current and future human health exposure to evaluated media would not result in unacceptable human health risks (CH2M HILL 2009b).
5	A	Timberland Landfill	Located approximately at the western edge of the Technology Park property in an area cleared for the power lines, southwest of Building 776	B	Inactive	Waste reportedly includes small quantities of laboratory sample bottles and latex polymer.	None	Wastes materials were reportedly removed from SWMU 5 and shipped off site (UCC 1998).	In 2004, a geophysical survey, two test pits to confirm the geophysical results, and soil sampling was completed. No waste was observed in the test pits or the soil borings. The analytical results from the soil sampling were evaluated in the Current Conditions Report (CCR) (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed. In addition, no unacceptable ecological risk was observed. In 2008/2009, additional excavations were completed to further evaluate if there is any remaining waste material in the former landfill. During these excavations some trash (concrete, metal, and plastic) was uncovered; however, the limited amount of trash observed did not indicate that a landfill is present in the
6	A	701 Waste Accumulation Shed (8723)	Located northwest of the incinerator (SWMU 55)	C	Inactive as a SWMU	Was used formerly to store wastes generated at Building 701 and in laboratories and pilot plants throughout the facility. Currently only raw materials are stored here.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening levels (Appendix A).
7	A	740 Waste Accumulation Shed (8736)	Located off the northwest corner of Building 740	C	Inactive	Stored wastes generated at Building 740, and in laboratories and pilot plants throughout the facility.	None	In 1989, this area was cleaned up, partially demolished and reconstructed. The containment sump was removed and the drain pipe valved off. After this, the area was no longer used as a waste transition area (UCC 1998).	In 2006, one soil sample (TCF-0063) was collected from this SWMU as part of the Donation Area Investigation. The results for this soil sample were nondetect (CH2M HILL, 2008).
8	A	770 Waste Accumulation Shed (8722)	Located off the northeast corner of Building 770	C	Inactive	Stored wastes generated at Building 770, and in laboratories and pilot plants throughout the facility.	None	In 1989 this area was cleaned up, partially demolished and reconstructed. The containment sump was removed and the drain pipe valved off. After this, the area was no longer used as a waste transition area (UCC 1998).	Not Applicable
9	A	9a. 722 Non-Hazardous Waste Accumulation Shed 9b. Dismantled Incinerator	These represent two units that occupied the same area at different times, the location is immediately southwest of the closed Incinerator (SWMU 55)	C	Inactive	9a. Stored non-hazardous waste from the pilot plant and laboratories. 9b. The incinerator burned mainly cardboard and other packing materials, but also took small lots of organic chemical sample bottles and 5-gallon cans.	None	Incinerator dismantled and closed in 1972. The foundation was cleaned and put in use as a pad under an accumulation shed. Waste accumulation shed was cleaned at the same time as the incinerator (UCC 1998).	Not Applicable
10	A	722 Waste Accumulation Pad	Located 50 feet west of the Incinerator (SWMU 55) and adjacent to the New Day Tank (SWMU 54)	C	Inactive	Stored wastes from all areas of the facility which were to be disposed of in the Incinerator (SWMU 55).	None	Cleaned and closed the same time as the Incinerator (SWMU 9b) (UCC 1998).	Not Applicable

TABLE 2-2
SWMUs and Investigation Areas Summary Table
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South Charleston, West Virginia

SWMU No.	Tract	Unit Name	Unit Location	SWMU Classification[1]	Operational Status (as of March 2008)[2]	Wastes Managed	History of Release[3]	Interim Measures	Previous Investigation Results
11	A	706/707 Waste Accumulation Area	Located northeast of Building 707, on the east side of the Residue Tanks (SWMUs 48 and 49) and the Wastewater Tanks (SWMUs 51 and 52)	C	Inactive	Stored wastes from all areas of the facility which were designated to be emptied into either the Residue Tanks (SWMUs 48 & 49) or the Wastewater Tanks (SWMU 51 & 52).	Leaking drums were noted on an inspection (No date). The concrete base was cracked and stained at the time of the VSI.	None	In 2004, soil samples and a groundwater grab sample from a perched zone were collected. The analytical results were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed for soil. The groundwater grab sample did however exceed screening levels. In 2006, additional borings were completed to further assess the possibility of a perched groundwater zone. None of the direct pushing boring showed any indication of a perched groundwater zone (CH2M HILL, 2008).
12	A	726/727 Waste Accumulation Area	Located on the north side of Building 726	C	Active	Stores waste generated in Building 726 & 727	In 1982, one drum of waste isocyanate exploded at the east end of Building 726. No estimate on the amount released.	None	In 1992, a soil sample was collected. The analytical results were nondetect (UCC 1998). In 2008, additional soil samples were collected from this area to support potential future divestitures. The results for these samples were also nondetect (Appendix A).
13	A	728 Waste Accumulation Area	Located at the west end of Building 728	C	Active	Stores waste generated in Building 728.	None	None	In 2008, soil samples were collected from this area to support potential future divestitures. The results for these samples were nondetect (Appendix A).
14	A	733 Waste Accumulation Area	Located west of Building 720 and north of Building 706	B	Inactive as a SWMU	Stored wastes generated from all areas of the facility. At the time of the VSI, lithium bromide and waste acetone were stored here. Currently only raw materials are stored in this area.	None	A closure plan was approved in 1997 (UCC 1998), but there is no record that the plan was implemented.	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
15	A	740 Waste Oil Storage Area	Located east of Building 743	C	Inactive as a SWMU	Historically stored used vacuum pump oil, but currently stores acetone and drummed raw materials.	None	None	In 2006, one soil sample (TCF-0062) was collected from this SWMU as part of the Donation Area Investigation. The results for this soil sample were nondetect (CH2M HILL, 2008).
16	A	770 Aldehydes Waste Accumulation Area	Located on the north side of the east wing of Building 770, approximately 1,000 feet west of Ward Hollow	C	Active	Stores waste aldehydes.	None	None	Not Applicable
17	A	771 Waste Accumulation Area	Located at the north end of Building 771	C	Active	Stores wastes generated in Building 771.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed residential or industrial screening levels (Appendix A).
18	A	773 Waste Accumulation Area	Located on the southwest side of Building 773	C	Active	Stores wastes generated in Building 773.	None	None	Not Applicable
19	A	776 Waste Accumulation Pad	Located on the north side of Building 776	C	Active	Stores wastes generated in Building 776 and other nearby buildings.	In 1987, 30 gallons of kerosene was spilled on the concrete pad. It was immediately absorbed and cleaned up.	The spilled kerosene was immediately absorbed and cleaned up. No long term impact occurred due to this release (A.T. Kearney, 1988).	Not Applicable
20	A	735 Waste Storage Pad	Located southwest of Building 720 and the 733 Waste Accumulation Pad (SWMU 14)	C	Active	Stores wastes generated from all areas of the facility. Wastes in accumulation areas (SWMUs 6-19) that are approaching 90-day storage limit are either incinerated or transferred to this unit.	None	None	Not Applicable
21	A	787 Waste Storage Bunker	Located approximately 50 feet north of Building 771	C	Active	Stores wastes and raw chemicals characterized as "highly ignitable, reactive, or toxic."	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening levels (Appendix A).
22	A	740 Area Sump	Located outside of the 740 Former Contaminated Oil Storage Area (SWMU 15)	C	Inactive	Received runoff from SWMU 15.	None	None	In 2006, one soil sample (TCF-0062) was collected from this SWMU as part of the Donation Area Investigation. The results for this soil sample were nondetect (CH2M HILL, 2008).
23	A	776 Pad Sump	Located on the north Side of Building 776	C	Active	Receives runoff from SWMU 19.	Sump was inspected and found not to contain any spill materia	None	Not Applicable
24	A	787 Bunker Sump	Located immediately west of the 787 Waste Storage Bunker (SWMU 21)	C	Active	Receives runoff from SWMU 21.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening levels (Appendix A).
25	A	701 Shed Sump	Located behind the 701 Waste Accumulation Shed (SWMU 6)	C	Inactive as a SWMU	Received runoff from SWMU 6.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening levels (Appendix A).
26	A	722 Shed Sump	Located immediately west of the 722 non-hazardous waste accumulation shed (SWMU 9)	C	Inactive	Received runoff from SWMU 7.	None	Cleaned and closed the same time as the Incinerator (SWMU 9b) (UCC 1998).	Not Applicable
27	A	740 Shed Sump	Located behind 740 Waste Accumulation Shed (SWMU 7)	C	Inactive	Received runoff from SWMU 8.	None	In 1989, this area was cleaned up, partially demolished and reconstructed. The containment sump was removed and the drain pipe valved off. After this, the area was no longer used as a waste transition area (UCC 1998).	In 2006, one soil sample (TCF-0063) was collected from this SWMU as part of the Donation Area Investigation. The results for this soil sample were nondetect (CH2M HILL, 2008).
28	A	770 Shed Sump	Located behind 770 Waste Accumulation Shed (SWMU 8)	C	Inactive	Received runoff from SWMU 9.	None	In 1989 this area was cleaned up, partial demolished and reconstructed. The containment sump was removed and the drain pipe valved off. After this the area was no longer used as a waste transition area (UCC 1998).	Not Applicable
29	A	704 Empty Drum Area	Located on the east side of Building 704	D	Active	Stores empty drums from Building 704 and other nearby facilities.	None	None	Not Applicable
30	A	707 Empty Drum Rack	Located east of Building 706	D	Active	Stores only empty stainless steel drums that are steam cleaned at SWMU 59 prior to storage.	None	None	Not Applicable
31	A	706/707 Empty Drum Area	Located west of Building 707	D	Active	Stores empty drums from Building 706/707 and other nearby facilities.	None	None	Not Applicable

TABLE 2-2
SWMUs and Investigation Areas Summary Table
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SWMU No.	Tract	Unit Name	Unit Location	SWMU Classification[1]	Operational Status (as of March 2008)[2]	Wastes Managed	History of Release[3]	Interim Measures	Previous Investigation Results
32	A	726 Empty Drum Area	Located on the north side of Building 726, just east of the 726/727 Waste Accumulation Area (SWMU 12)	D	Active	Stores empty drums from Building 726/727 and other nearby facilities.	Small amount of liquid from one drum appeared to have seeped onto the pad. Leak did not get transported off the pad.	None	In 2008, soil samples were collected from this area to support potential future divestitures. The results for these samples were nondetect (Appendix A).
33	A	742/743 Empty Drum Area	Located immediately east of Building 742	D	Active	Stores empty drums from Building 742/743 and other nearby facilities.	None	None	In 2006, one soil sample (TCF-0061) was collected from this SWMU as part of the Donation Area Investigation. The results for this soil sample were nondetec (CH2M HILL, 2008).
34	A	770 Empty Drum Area	Located approximately 30 feet east of 771 Waste Accumulation Area (SWMU 17)	D	Active	Stores empty drums from Building 770 and other nearby facilities.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening level (Appendix A).
35	A	771 Empty Drum Area	Located approximately 20 feet north of 787 Waste Storage Bunker (SWMU 21)	D	Active	Stores empty drums from Building 771 and other nearby facilities.	None	None	In 2008, soil sampling was completed to support potential future divestitures. The analytical results did not exceed the residential or industrial screening level (Appendix A).
36	A	776 Empty Drum Area	Located north of Building 773	D	Active	Stores empty drums from Building 776 and other nearby facilities.	None	None	Not Applicable
37	A	704 Cooling Tower Basin	Located approximately 100 feet west of the Incinerator (SWMU 55), and 30 feet west of 701 Waste Accumulation Shed (SWMU 6)	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	None	In 1989, TCLP analysis for metals was performed on cooling tower wood that was replaced. The results were nondetect except for barium and chromium, which were below RCRA characteristic and treatment standard levels (UCC 1998).
38	A	742 Cooling Tower Basin	Located approximately 100 feet west of Building 742	B	Inactive as a SWMU	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	Cooling water was observed during the VSI dripping onto the soil near the southeast corner of the tower.	In 1990, minor cracks that penetrated the full thickness of the wall were repaired. Sometime in the 1980s, chromium compound was eliminated as an additive to the cooling water (UCC 1998).	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
39	A	770 Cooling Tower Basin	Located approximately 100 feet north of Building 770	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	Chromium compounds are no longer used in the cooling water (UCC 1998).	Not Applicable
40	A	773 Cooling Tower Basin	Located approximately 100 feet west of Building 773	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	Cooling water was observed during the VSI dripping onto the soil on the west side of the tower basin.	Sometime in the 1980s, chromium compound was eliminated as an additive to the cooling water (UCC 1998).	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
41	A	777 Cooling Tower Basin	Located on the northeast side of the 776 Waste Accumulation Pad (SWMU 19)	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	Cooling water was observed during the VSI dripping onto the soil on the east side of the tower basin.	Sometime in the 1980s, chromium compound was eliminated as an additive to the cooling water (UCC 1998).	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
42/43	A	791 Cooling Tower East Basin	Located behind Building 791 on the south side	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	Cooling water was observed during the VSI dripping onto the soil near the basin of the tower.	Sometime in the 1980s, chromium compound was eliminated as an additive to the cooling water (UCC 1998).	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
44	A	705 Roof Cooling Tower Basin	Located on the roof of Building 705	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	Chromium compounds are no longer used in the cooling water (UCC 1998).	Not Applicable
45	A	770 Roof Cooling Tower Basin	Located on the roof of Building 770	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	Chromium compounds are no longer used in the cooling water (UCC 1998).	Not Applicable
46	B	2000 Roof Cooling Tower Basin	Located on the roof of Building 2000	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	Chromium compounds are no longer used in the cooling water (UCC 1998).	Not Applicable
47	C	6000 Roof Cooling Tower Basin	Located on the roof of Building 6000	D	Active	Chromium compound was added to the cooling water from 1940s to 1980s. The basin is emptied once a year and any biological solids washed down the clean sewer (SWMU 61).	None	Chromium compounds are no longer used in the cooling water (UCC 1998).	Not Applicable
48	A	Eastern Residue Tank	Located in a diked area 15 feet east of Building 707	C	Inactive	Tank stored ignitable or solvent wastes, including those with EPA hazardous waste code D001, F002, and F003.	None	In 1989, the tank and ancillary equipment were cleaned and closed. Closure was documented and submitted to WVDEP OMW, which acknowledged the closure on August 16, 1989 (UCC 1998).	Not Applicable
49	A	Western Residue Tank	Located in a diked area 15 feet east of Building 707	C	Inactive	Tank stored ignitable or solvent wastes, including those with EPA hazardous waste code D001, F002, and F003.	None	In 1989, the tank and ancillary equipment were cleaned and closed. Closure was documented and submitted to WVDEP OMW, which acknowledged the closure on August 16, 1989 (UCC 1998).	Not Applicable
50	A	Residue Tank Sump	Located directly beneath the Western Residue Tank (SWMU 48) in the southwest corner of the diked concrete pad beneath the tanks	C	Inactive	Managed spills from the residue tanks (SWMU 48 and 49).	None	In 1989, the tank and ancillary equipment were cleaned and closed. Closure was documented and submitted to WVDEP OMW, which acknowledged the closure on August 16, 1989 (UCC 1998).	Not Applicable
51	A	Wastewater Tank	Located North of the Residue Tanks (SWMU 49 and 50) on the East side of Building 707	C	Inactive	Tank stored process wastewater from all areas of the UCC Technology Park. Wastewater could contain variable amounts of potentially any chemica utilized at the site.	None	In 1993 this tank was cleaned and removed (UCC 1998).	Not Applicable

TABLE 2-2
SWMUs and Investigation Areas Summary Table
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SWMU No.	Tract	Unit Name	Unit Location	SWMU Classification[1]	Operational Status (as of March 2008)[2]	Wastes Managed	History of Release[3]	Interim Measures	Previous Investigation Results
52	A	Wastewater Tank	Located north of the Residue Tanks (SWMU 49 and 50) on the east side of Building 707	C	Inactive	Tank stored process wastewater from all areas of the UCC Technology Park. Wastewater could have contained variable amounts of any chemical utilized at the site.	None	In 1993 this tank was cleaned and removed (UCC 1998).	Not Applicable
53	A	709 Septic Tank	Located east of Building 709 near the Incinerator (SWMU 55)	No classified	Inactive	Tank received mainly sanitary wastes from toilets, showers, and sinks. It was also hooked to the floor drain and sink in building 709. Tank was not used after 1968.	None	None	Not Applicable
54	A	New Day Tank	Located approximately 50 feet west of the Incinerator (SWMU 55)	C	Inactive	Tank held and blended compatible chemical wastes before on-site incineration. The waste was piped directly to SWMU 55. The tank could have received any chemical utilized at the site.	None	Tank was cleaned and the waste from the cleaning was disposed of in accordance with applicable requirements. UCC submitted the certificate of closure of this unit to WVDEP OMW in 1993. The secondary containment area and its sump were cleaned and closed with the incinerator (SWMU 55) (UCC 1998).	Not Applicable
55	A	Incinerator	Located northeast of Building 722	C	Inactive	The Incinerator handled a variety of chemical wastes generated in laboratories and pilot plants on-site, and occasional off-site waste from UCC facilities. Ash generated was deposited in a regulated hazardous waste landfill operated by UCC.	In 1992, a release of incinerator scrubber water occurred to the hillside soil on the east side of the incinerator. No contamination associated with this release as documented in the Clean Closure Certification.	The incinerator was clean closed in early 1996 in accordance with a modified closure plan approved by the WVDEP OWM in June 1995 (UCC 1998).	Not Applicable
56	A	Building 704 Boiler	Located inside Building 704	B	Inactive	The Boiler handled mostly coal and paper trash, but also burned wastes from the Residue Tanks (SWMU 48 and 49). Prior to 1985.	None	In 1993, this boiler was cleaned and mothballed. Later on the boiler was removed (UCC 1998).	Not Applicable
57	A	Building 704 Boiler	Located inside Building 704	B	Inactive	The Boiler handled mostly coal and paper trash, but also burned wastes from the Residue Tanks (SWMU 48 and 49). Prior to 1985.	None	In 1993, this boiler was cleaned and mothballed. Later on the boiler was removed (UCC 1998).	Not Applicable
58	A	Boiler Ash Handling System	Unit is part of Building 704	B	Inactive	Managed ash from the boilers (SWMU 56 and 57).	None	In 1993, this boiler was cleaned and mothballed. Later on the boiler was removed (UCC 1998).	In 2004, soil sampling was conducted. The analytical results for TCF-SB004 exceeded the industrial screening level for arsenic and the residential screening level for mercury (CH2M HILL 2008). In 2005, additional soil samples were collected to confirm the results for arsenic at TCF-SB004 and evaluate the extent. All of the 2005 soil analytical results were below the industrial and residential screening level (CH2M HILL 2008).
59	A	Drum Rinsing Station	Located inside the diked area by the Wastewater Tanks (SWMUs 51 and 52)	C	Inactive	Managed rinsate from drum steam cleaning process. The rinsate was discharged to the sanitary sewer (SWMU 62).	None	None	Not Applicable
60	B	2000 Waste Transfer Area	Located within Building 2000 on the loading dock	C	Active	Manages printing chemicals for a short duration before they are transferred to waste operations for disposal.	None	None	Not Applicable
61	N/A	Clean Sewer	Located under the entire Technology Park	B	Active	Manages waste discharged from SWMU 10, 11, 14, 17, 29, 37-45, and 54. It also received plant stormwater run-off. This sewer system operates under the NPDES permit number WV0000124.	None	None	Not Applicable
62	N/A	Sanitary Sewer	Located under the entire Technology Park	B	Active	Manages mainly sanitary waste and small amount of industrial waste from SWMU 20, 22, 23, 48, and 49. This sewer operates under South Charleston Sanitary Board Permit number SBPT-01.	None	None	Not Applicable
63	A	Greenhouse Soil Filled Area	North of former Building 741	A	Inactive	Managed soil and waste material from Building 766, which may have contained pesticides and herbicides.	None	In 1983, the structure was removed. Only the concrete pad remains (UCC 1998).	In 2000, soil samples and a groundwater grab sample was collected. The analytical results were evaluated in the 2001 RFI Report (Key Environmental 2001), no industrial soil screening soil exceedances were observed and the analytical results for groundwater were nondetect.
64	D	Lower Ward Bottle Disposal Area	Located on the Northern dike of Lower Ward Landfill (SWMU 1)	B	Inactive	Unit was used to dispose of small chemical bottles by breaking them on the rocks. The unit could contain any chemical utilized at the site.	None	Area is presently covered and has been reworked several times with rip-rap (UCC 1998).	Not Applicable
65	C	6000 Dump Area	Located south of Building 6000	A	Inactive	Historical review, personnel interviews and aerial photo review determined that the SWMU area was utilized as a parking lot from 1958 until Building 6000 was constructed. No wastes were managed in this area.	None	None	In 1997, soil samples were collected. All samples came back non-detect (UCC 1998). This SWMU was determined to be used exclusively as a paved parking lot from 1958 until Building 6000 was constructed (Key Environmental, 2001).
66	D	Ward A Dump Pond Burn Area #1	Southeast of Building 6000	A	Inactive	Unit was used to burn and dispose of used or spent chemicals. The unit may contain any chemical utilized at the site.	None	None	In 2000, a groundwater samples was collected from a piezometer installed at this SWMU. The analytical results showed that bis(2-chloroisopropyl)ether was the only constituent that exceeded screening criteria (Key Environmental, 2001).
67	D	Ward A Dump Pond Burn Area #2	Located approximately 800 feet north of Ball Field #3, east of the Ward A pond	A	Inactive	Historical review, personnel interviews, and aerial photo review determined that the SWMU was either inaccessible (flooded from Ward A) or not used as a solid waste disposal area.	None	None	Not Applicable
68	D	Concrete Batch Mix Disposal Area	Located on the northwestern side of Lower Ward Landfill (SWMU 1), approximately 200 feet east of the southeastern corner of Building 771.	B	Inactive	Unit used to dispose of concrete and chemicals mixed with concrete.	None	None	In 2004, soil sampling was completed. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), no industrial or residential screening level exceedances were observed.
69	A	Timberland Dump Site #1	Located on the west side of the facility in the Timberland area	C	Inactive	Unit was used to dispose of general facility refuse, construction debris, wooden pallets, and cut vegetation.	None	In 1992, a major cleanup of this area was undertaken; all trash was removed and properly disposed (UCC 1998).	Not Applicable

TABLE 2-2
SWMUs and Investigation Areas Summary Table
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SWMU No.	Tract	Unit Name	Unit Location	SWMU Classification[1]	Operational Status (as of March 2008)[2]	Wastes Managed	History of Release[3]	Interim Measures	Previous Investigation Results
70	A	Timberland Dump Site #2	Located on the west side of the facility in the Timberland area	B	Inactive	Unit was used to dispose of general facility refuse, construction debris, wooden pallets, and cut vegetation.	None	None	In 2004, soil sampling and test pits were completed. In addition, nearby surface water and sediment was sampled. Additional soil samples were collected in 2005 to evaluate ecological risk related to mercury in surface soil. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008). The industrial screening level was exceeded for arsenic and the residential screening level was exceeded for mercury. There were no surface water exceedances, but there were sediment exceedances for arsenic, barium, cadmium, chromium, and lead. Based on the ecological risk evaluation in the CCR, there is no unacceptable risk to ecological receptors. In 2009, additional soil sampling was conducted and waste sampling was conducted to support potential future divestitures. The analytical results exceeded the industrial screening levels and background only for arsenic (Appendix A).
Not Applicable	A	Greenhouse Area	Located north of former Building 741	Not Applicable	Not Applicable	Not Applicable	None	None	Groundwater data from two monitoring wells (MW-104A and WVU-04) in this area have detected concentrations of volatile organic compounds (VOCs) above screening criteria. The 2009 sample results showed that no VOCs exceed screening criteria in MW-104A and only two detected VOCs (chloroform and tetrachloroethene) exceed screening criteria in WVU-MW04.
Not Applicable	A	Building 722 Area	Located north of Building 722	Not Applicable	Not Applicable	Not Applicable	None	None	In 2005, soil samples were collected to support leasing this area to an interested party. The analytical results from the soil sampling were evaluated in the CCR (CH2M HILL, 2008), PCE was the only constituent that exceeded the industrial screening level and it was only exceeded at one location.
Not Applicable	A	Rocket Hollow Area	Located near SWMU 19 and 23	Not Applicable	Inactive	Historically, Rocket Hollow stored rocket fuel waste and fuel testing involving Resin B & Pyrolisis oil. Daily rocket fuel shots went off in the 1960s during these tests. Polypropoline glycol was identified as an inert binder used in this area. Rocket Hollow is currently used to store machines, parts, and materials associated with landscape work.	None	None	In 2008, soil sampling was completed to support potential future divestitures (Appendix A). Several polycyclic aromatic hydrocarbons exceeded the industrial screening levels.
Not Applicable	A	Building 707 Area	The drainage ditch located South of Building 707	Not Applicable	Inactive	According to a UCC employee, water from a former drum steam cleaning pad was washed into this drainage ditch.	None	Soil removal actions were performed in 2008 and 2009. A total of approximately 30 cubic yards of soil was removed from the drainage ditch (CH2M HILL 2009c).	Soil contamination was identified during a 2007 investigation to support potential future divestitures. Follow-up soil sampling was conducted in 2008 and 2009. The analytical results were evaluated in the Buildings 706 and 707 Area Soil Investigation, Removal Action, and Vapor Intrusion Human Health Risk Assessment Report (CH2M HILL 2009c). No industrial exceedances were observed for samples collected outside the soil removal areas. To evaluate the potential for vapor intrusion into nearby buildings (Buildings 706 and 707), subslab soil gas, indoor air, and ambient air samples were collected. The results indicate that current and future human health exposure associated with vapor intrusion into existing buildings from VOCs does not pose unacceptable human health risks (CH2M HILL 2009c).

1 - **Category A** = High Priority, **Category B** = Low Priority, **Category C** = No Further Action Needed, **Category D** = Does not meet the definition of a SWMU (UCC 1998)
2 - **Active** = still operates as SWMU, **Inactive** = no longer in operation, **Inactive as a SWMU = t**hese areas are still in operation, but not used for purposes that meet the definition of a SWMU
3 - Draft RCRA Facility Assessment Report (A.T. Kearney 1988)

TABLE 3-1
Ward Hollow Groundwater Remedial Technology Screening
Corrective Measures Proposal
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Remedial Technology	Process Options	Descriptions	Effectiveness	Implementability	Relative Cost Range	Screening Comment
No Action						
None	None	No further action to address groundwater impacts	None	Implementable	None	**Not retained.** Potential for groundwater use and future land use has risk to human health and the environment, which warrants corrective action. Some action is needed to prevent potential exposure.
Monitoring						
Long Term Monitoring	None	Long term monitoring of groundwater	Effective for monitoring plume stability over time	Implementable	Estimated to be $75,000 annually, depending on frequency of monitoring and number of wells sampled.	**Retained.** Monitoring of the plume over time will be used to verify that the plume is stable and is not expanding.
Institutional Controls						
Use Restrictions	Environmental Covenant	West Virginia Environmental Covenants (restrictive covenant) issued for properties within potentially affected areas to prevent use of impacted groundwater	Effective for mitigating human exposure to groundwater by preventing installation of water wells	Implementable	Low.	**Retained.** Suitable to eliminate potentially completed exposure pathways for human health.
Containment/Control						
Collection	Leachate Collection	Continued Operation of the Lower Ward Leachate Collection System	The leachate collection system captures a portion of the leachate that is migrating to groundwater.	Already implemented	Medium Operations and maintenance (O&M) costs - capital costs already incurred	**Retained.** Currently operational and to be merged with other technologies.
Cover	Clay cover	Stabilization of the material in Ward A Landfill and installation of a clay cover	Significantly reduces infiltration through landfill materials; however, some groundwater flow through waste and residual leaching would be expected to occur since the landfills are unlined and above the water table. Furthermore, target compounds that have leached into the underlying weathered bedrock would be expected to act as a continuing source to the dissolved plume by dissolution and diffusion.	Implementable.	High capital cost of approximately $15 million. O&M cost would be low.	**Not retained**. Installing a cover over the Ward A Landfill is not considered a cost-effective measure, in terms of long-term plume management, and compared to the rough order of magnitude (ROM) costs for the other alternatives evaluated. Additionally, the cover may not be completely effective.
Groundwater Pumping	Vertical recovery wells	Installation of a series of vertical wells to a depth of approximately 80 feet bgs at Ward Hollow to achieve hydraulic containment of the plume. Wells would need to be spaced at close intervals, possibly with staggered rows, to achieve plume containment. Recovered groundwater would be pumped to the City of South Charleston POTW without pretreatment.	A series of vertical wells could be effective; assuming a sufficient number of wells is installed to maintain plume containment. In low permeability fractured siltstone and sandstone, the capture zone of vertical wells is expected to be very small. Effectiveness of vertical wells is limited by probability of intersecting vertical fractures.	Implementable.	Total capital cost approximately $350,000. First year O&M would be approximately $164,000.	**Not retained**. Installing a groundwater recovery system to prevent groundwater from migrating offsite is not considered a sustainable measure in terms of long-term plume management because the system would need to run indefinitely. In addition, the plume is stable (e.g., not expanding)..
Source Removal						
Excavation	Excavation	Excavation and offsite disposal of waste material and impacted soil using standard construction equipment. Natural attenuation of existing groundwater plume is assumed following removal of the source materials.	Highly effective. Source area would be removed.	Theoretically possible; however, excavation of all waste materials containing contaminants of concern is considered impractical. Reaching all of the waste in landfills also is considered impractical, even for a long-stick excavator.	Prohibitively expensive. Massive volume of waste would simply be relocated to a Resource Conservation and Recovery Act (RCRA)-permitted (capped and lined) landfill. Excavation and disposal range from $100 to $250 per ton, including excavation/removal, transportation, and disposal. Based on historical documents, there is 1,055,556 cubic yards of waste contained in Lower Ward Landfill, and 3,000,000 cubic yards of waste contained in Ward A/B Landfills; therefore, assuming a total volume of 4,100,000 cubic yards, the	**Not retained**. Removing the source area is not considered a cost-effective measure, in terms of long-term plume management, and compared to the ROM costs for the other alternatives evaluated.

Figures

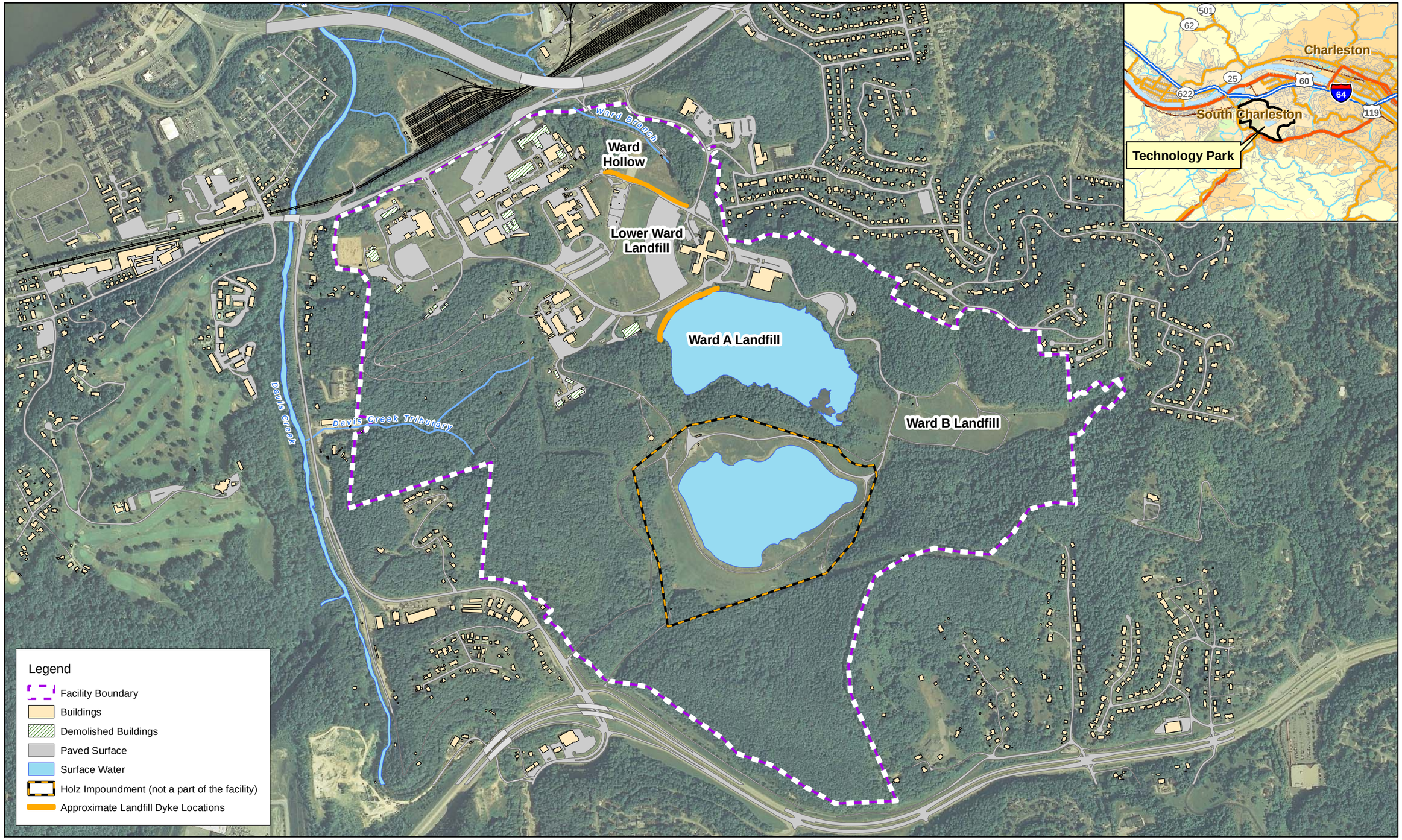

Figure 1-1
Site Location Map
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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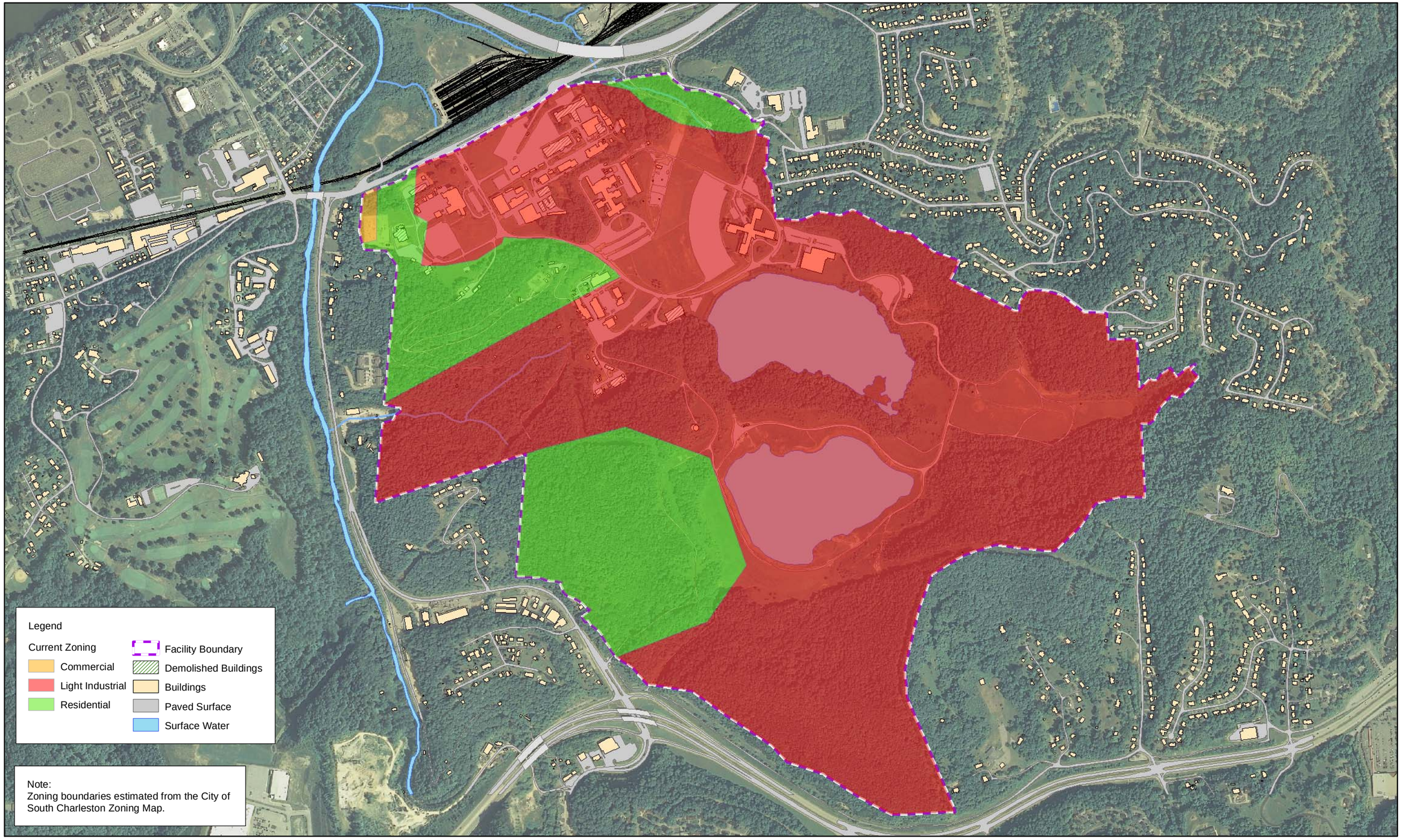

Figure 2-1
Zoning Map
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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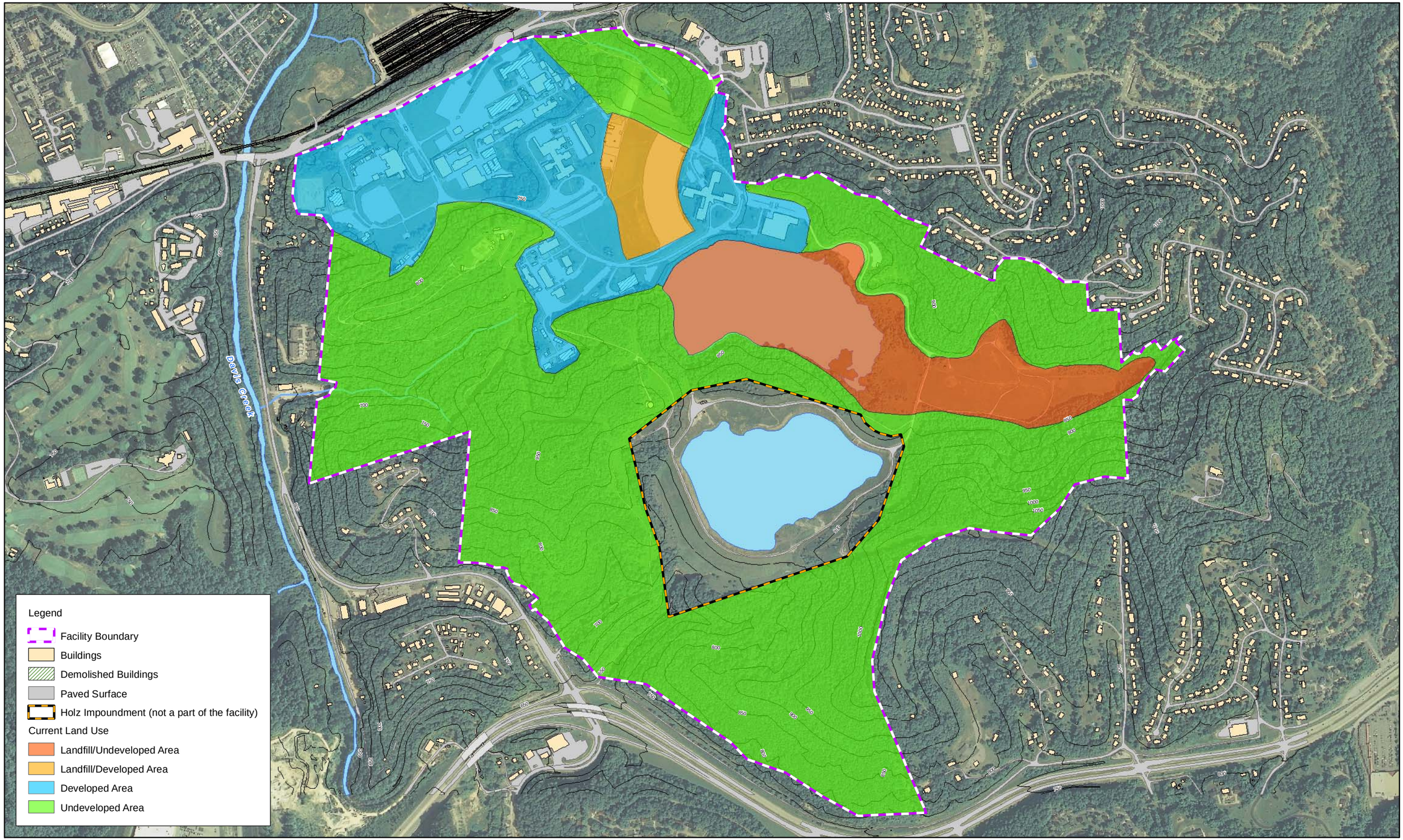

Figure 2-2
Current Land Use
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

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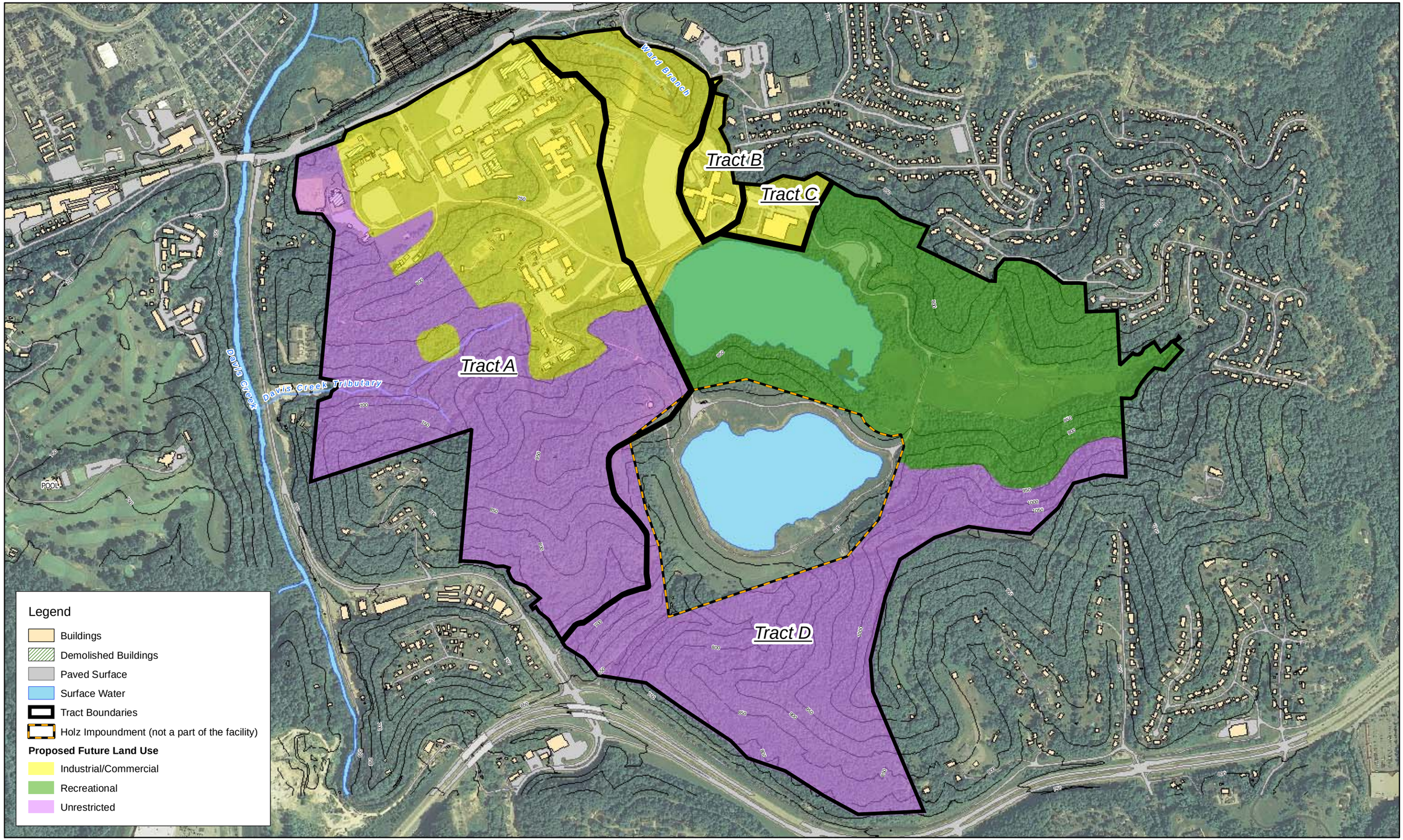

Figure 2-3
Proposed Future Land Use
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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Figure 2-4
Solid Waste Management Units
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

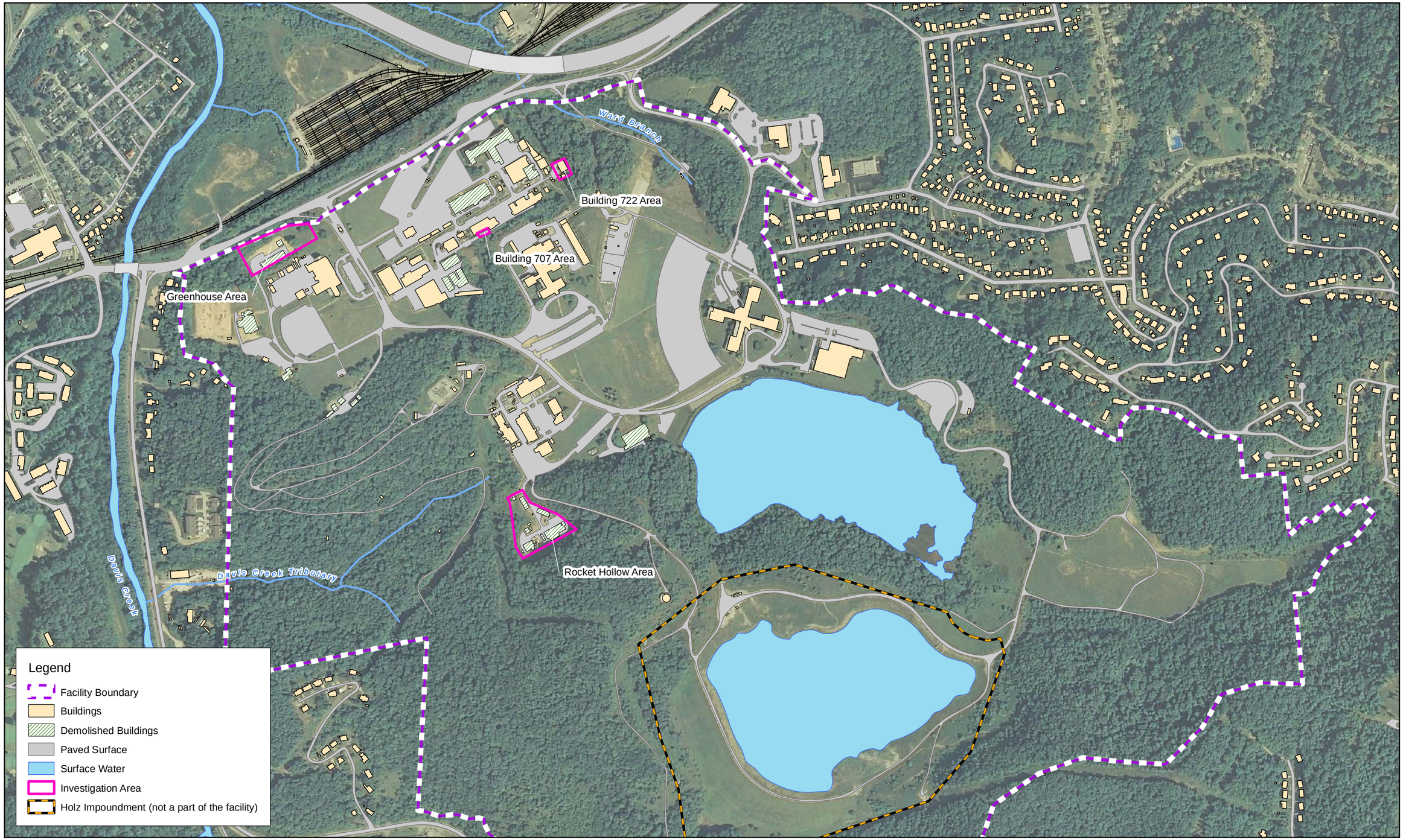

Figure 2-5
Investigation Areas
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

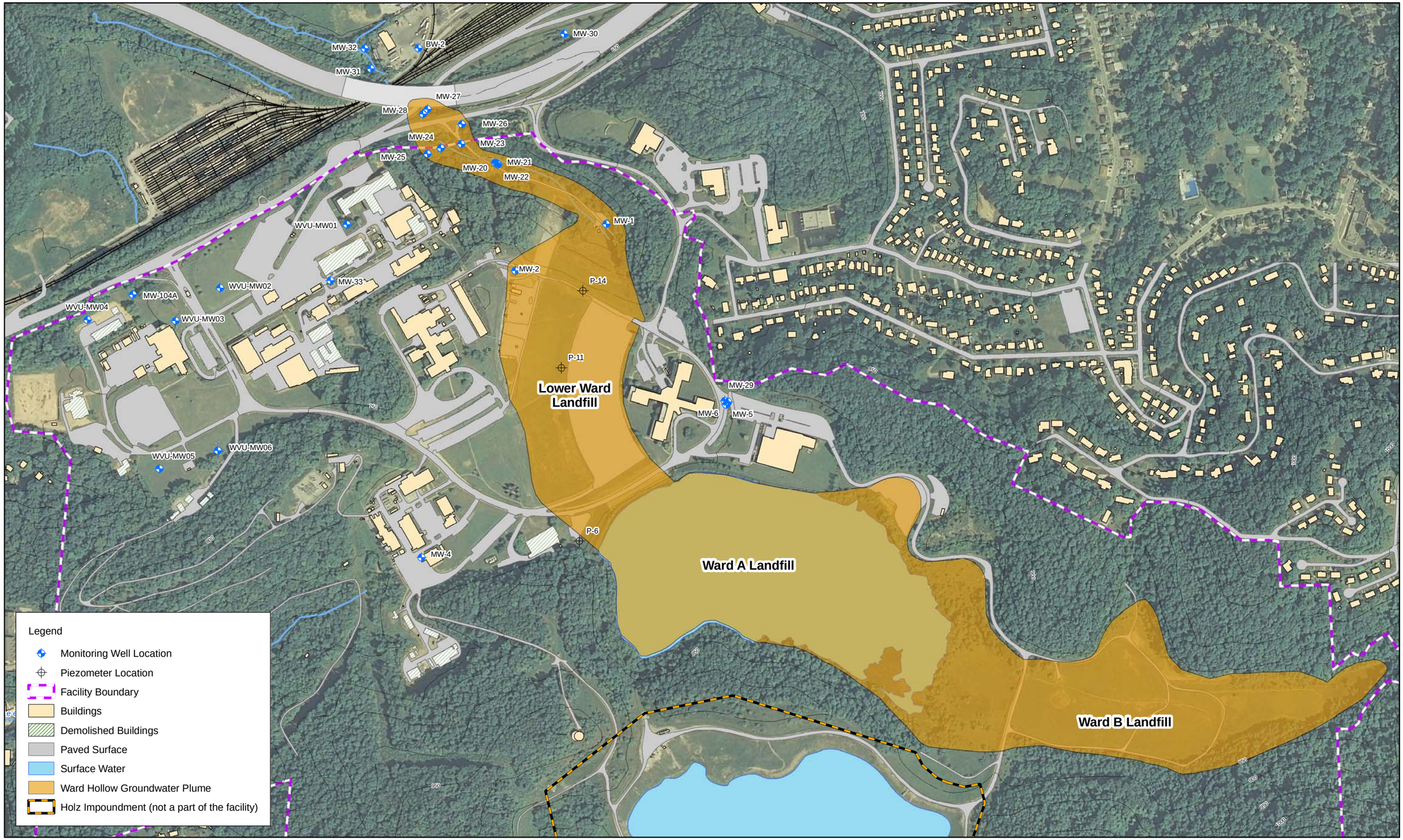

Figure 2-6
Ward Hollow Groundwater Plume
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

\\LAKEFRONT\PROJ\GIS\DOW\TECHCENTER\REPORTS\396873_CORRECTIVE_MEASURES_PROPOSAL\MAPFILES\DRAFT\G-TECH-00121 (WARD HOLLOW GROUNDWATER PLUME).MXD MMAGEE2 3/9/2010 12:37:20

Analyte	Screening Level	Screening Level Source
1,4 Dioxane	6.1	Adjusted Tap Water RSL
Chloroform	0.19	Adjusted Tap Water RSL
cis-1,2- Dichloroethene	70	MCL
Styrene	100	MCL
Tetrachloroethene	5	MCL
Trichloroethene	5	MCL

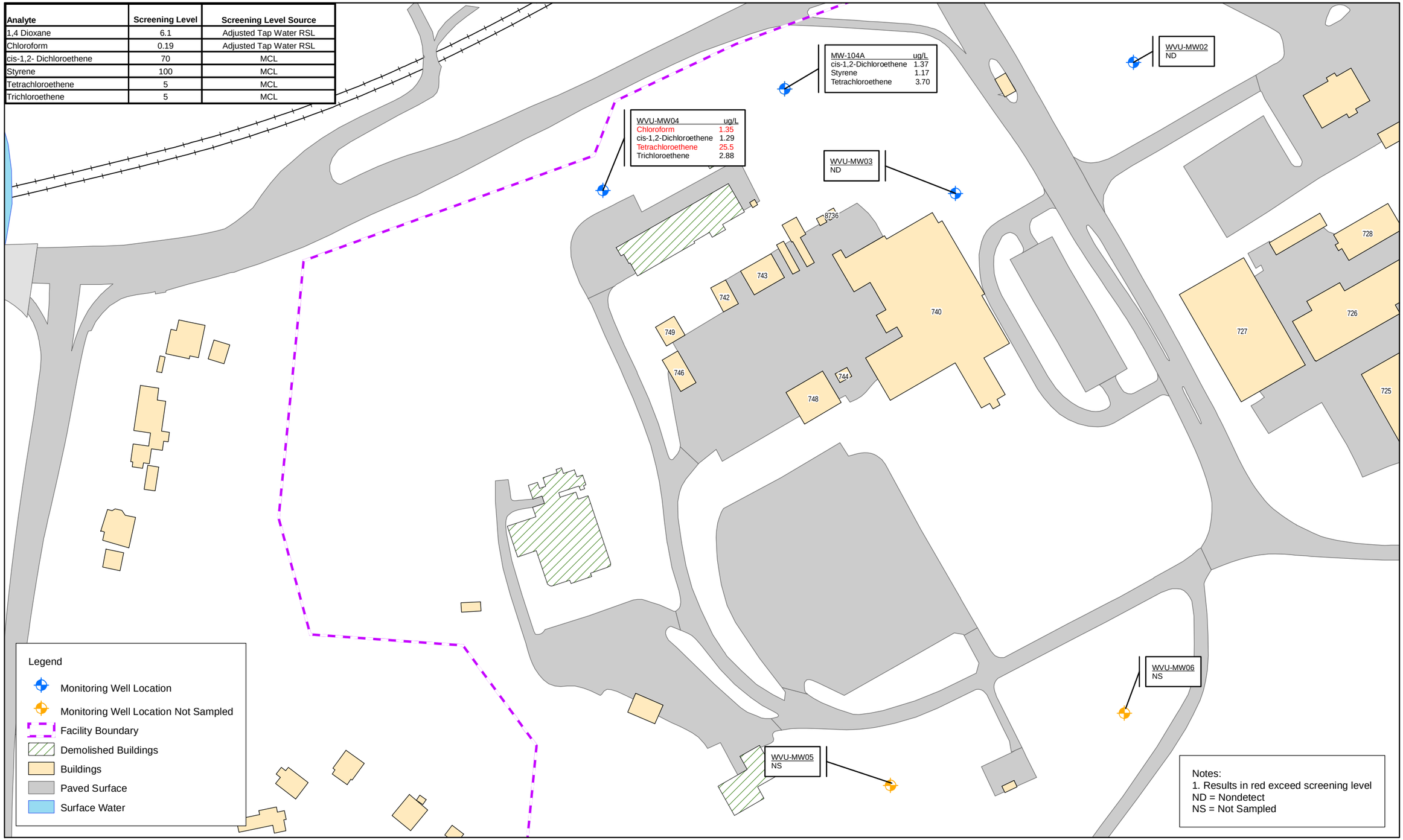

Figure 2-7
2009 Greenhouse Area Groundwater Detections/Exceedances
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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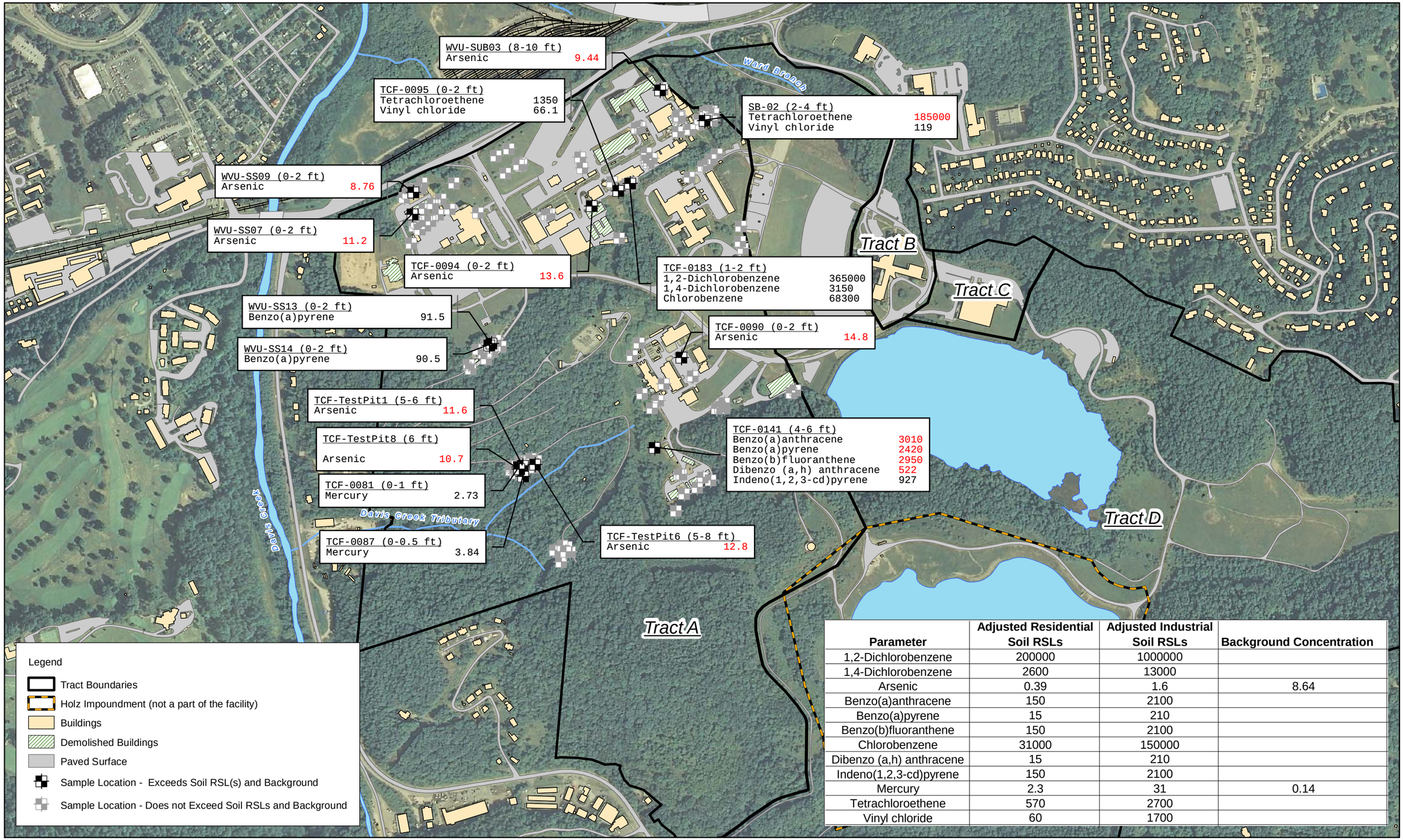

Parameter	Adjusted Residential Soil RSLs	Adjusted Industrial Soil RSLs	Background Concentration
1,2-Dichlorobenzene	200000	1000000	
1,4-Dichlorobenzene	2600	13000	
Arsenic	0.39	1.6	8.64
Benzo(a)anthracene	150	2100	
Benzo(a)pyrene	15	210	
Benzo(b)fluoranthene	150	2100	
Chlorobenzene	31000	150000	
Dibenzo (a,h) anthracene	15	210	
Indeno(1,2,3-cd)pyrene	150	2100	
Mercury	2.3	31	0.14
Tetrachloroethene	570	2700	
Vinyl chloride	60	1700	

N

0 600 1,200
Feet

Notes:
1. Results are in ug/kg with the exception of mercury and arsenic which are in mg/kg.
2. Black text = concentration exceeds Adjusted Residential Soil RSL and Background
3. Red text = concentration exceeds Adjusted Industrial Soil RSL and Background

Figure 2-8
Soil Exceedances
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

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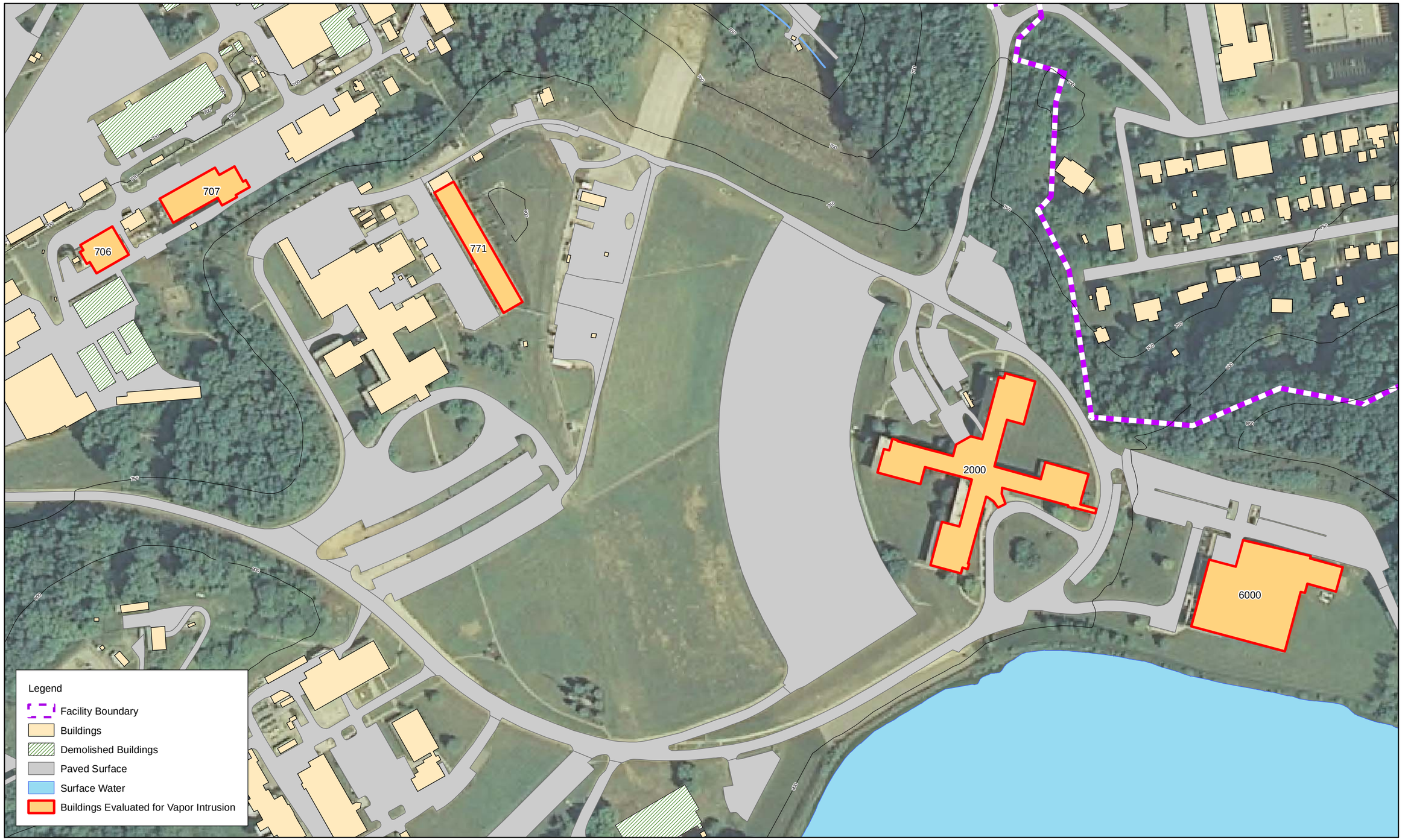

Figure 2-9
Buildings Evaluated for Vapor Intrusion
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

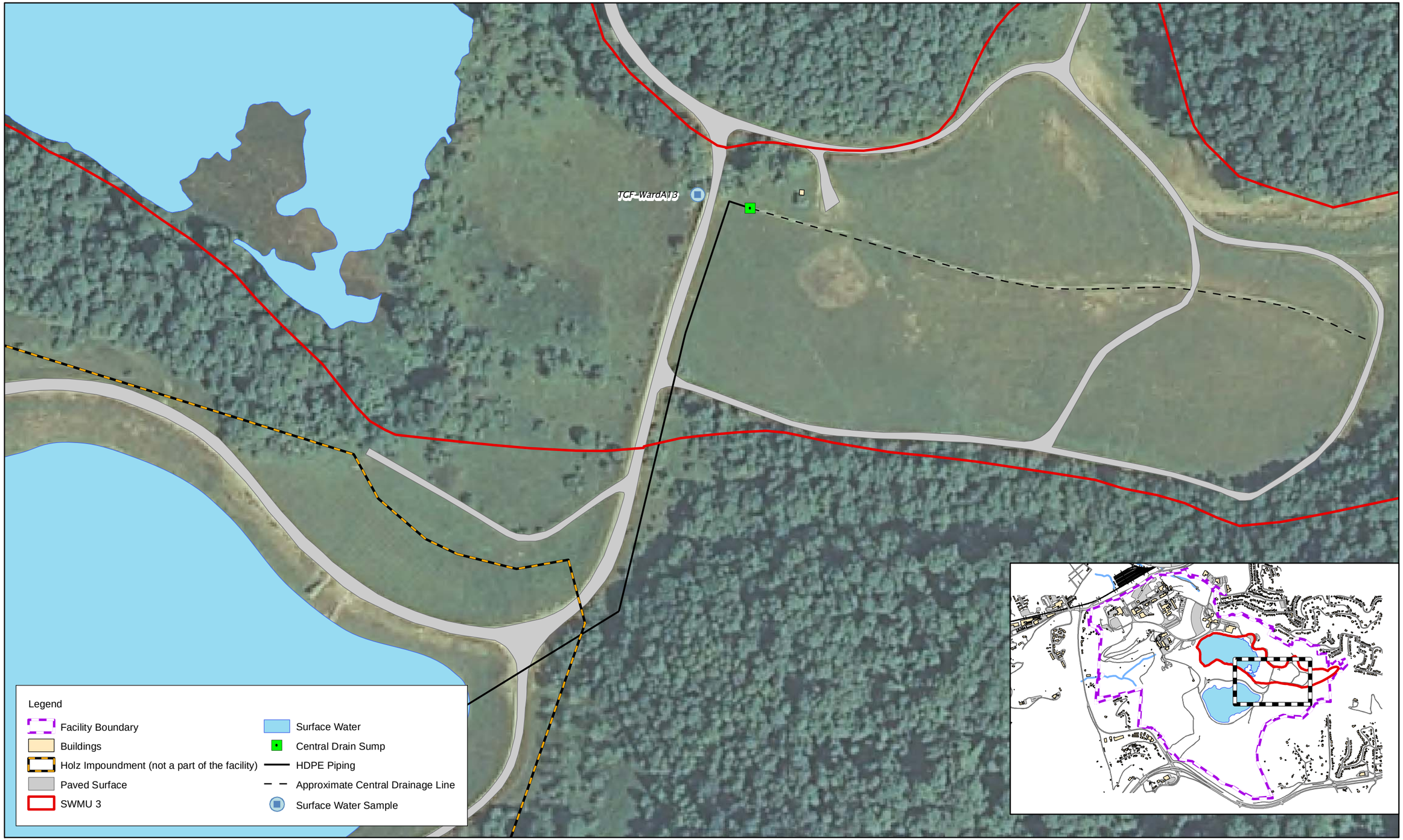

Figure 2-10
Central Drain Sump and Associated Piping
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

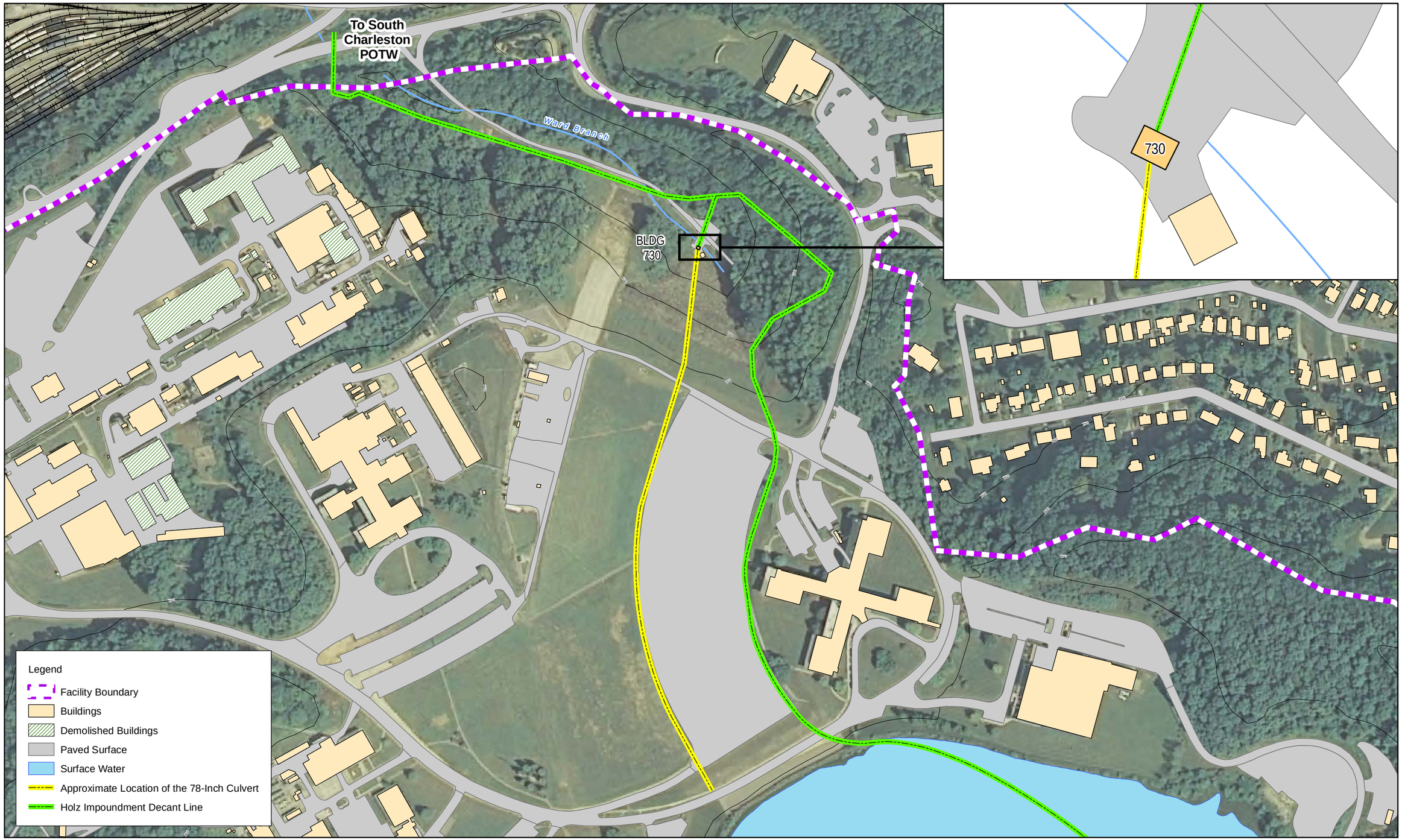

Figure 3-1
Lower Ward Leachate Collection System
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

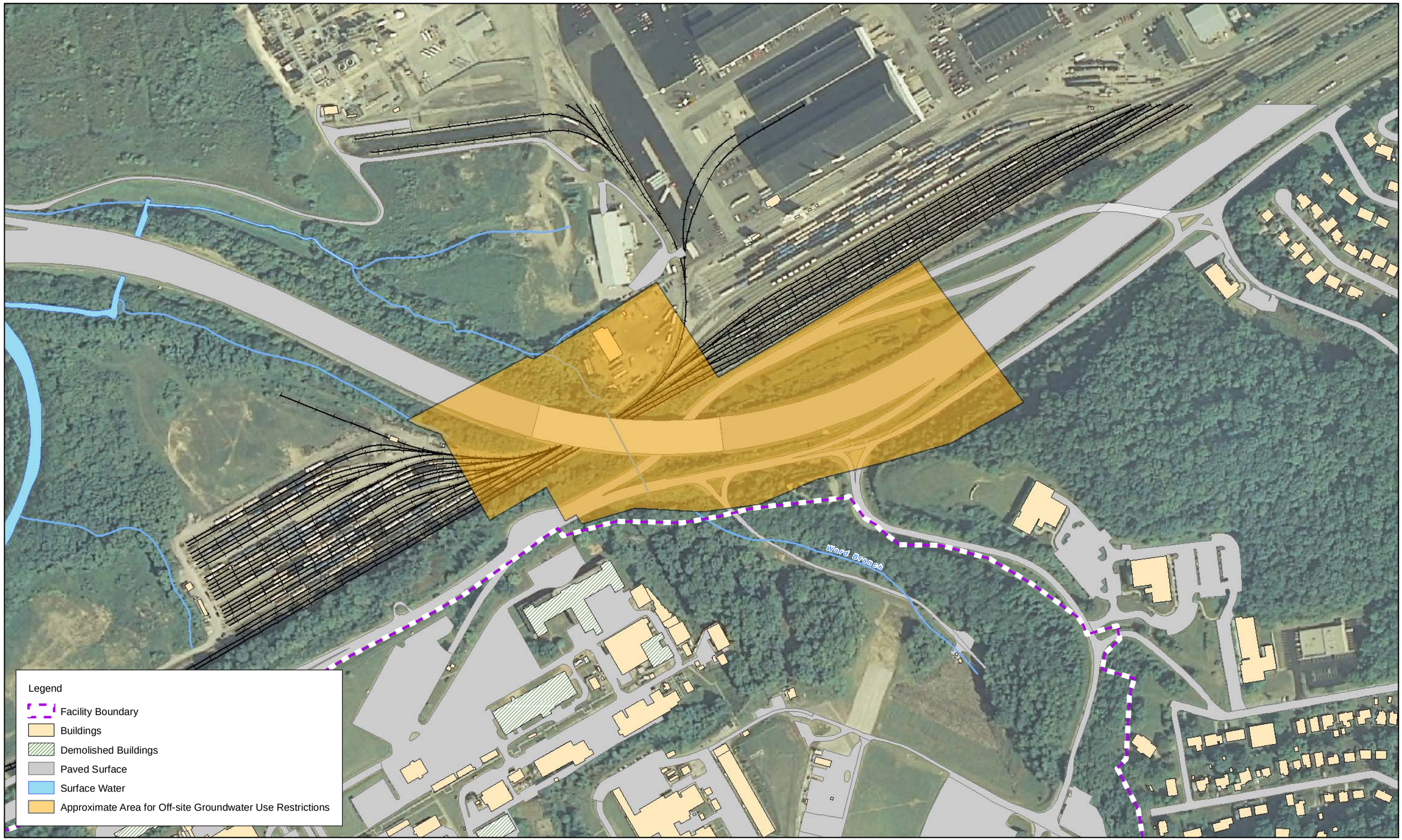

Figure 3-2
Off-Site Groundwater Use Restrictions
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

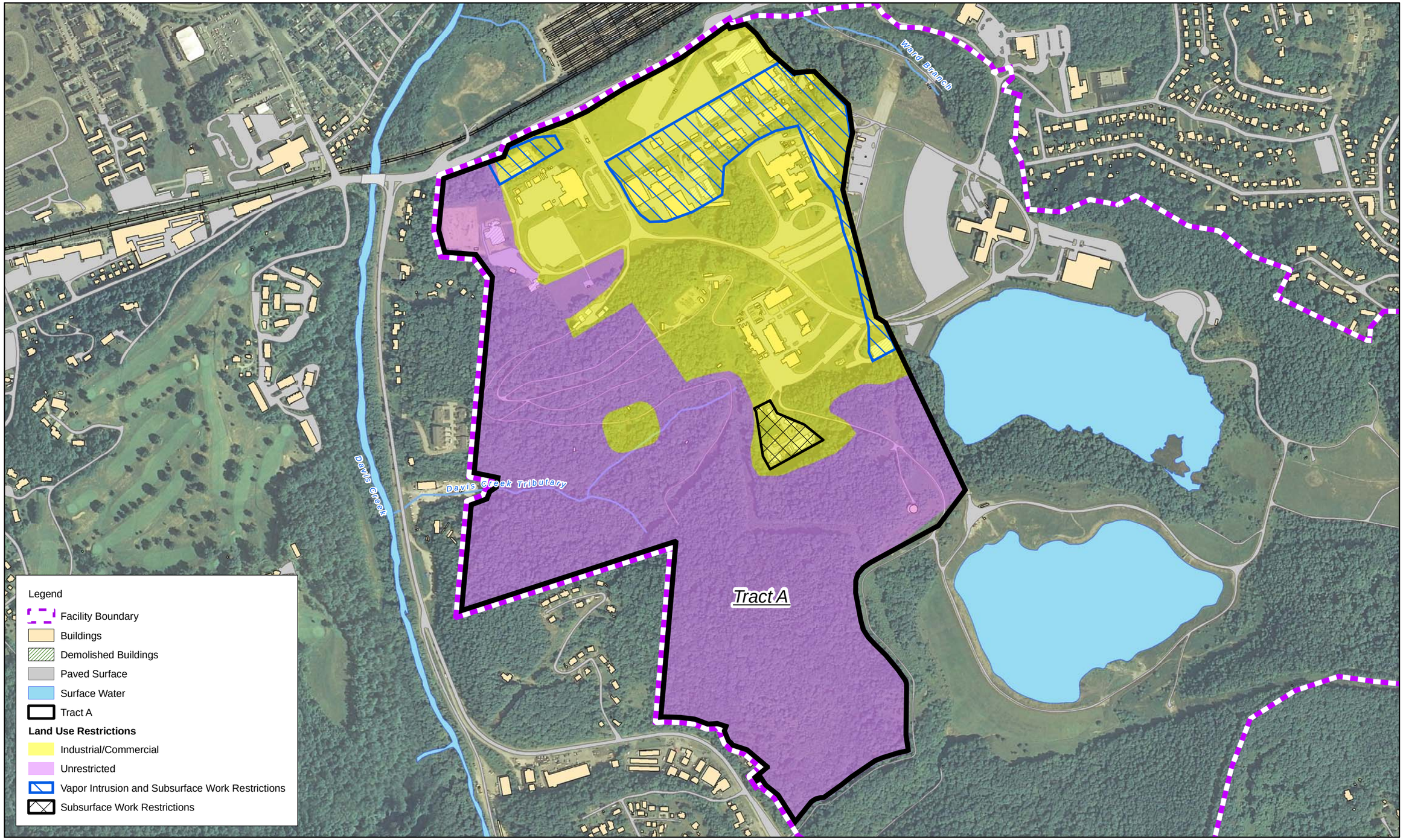

Figure 3-3
Tract A Restrictions
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

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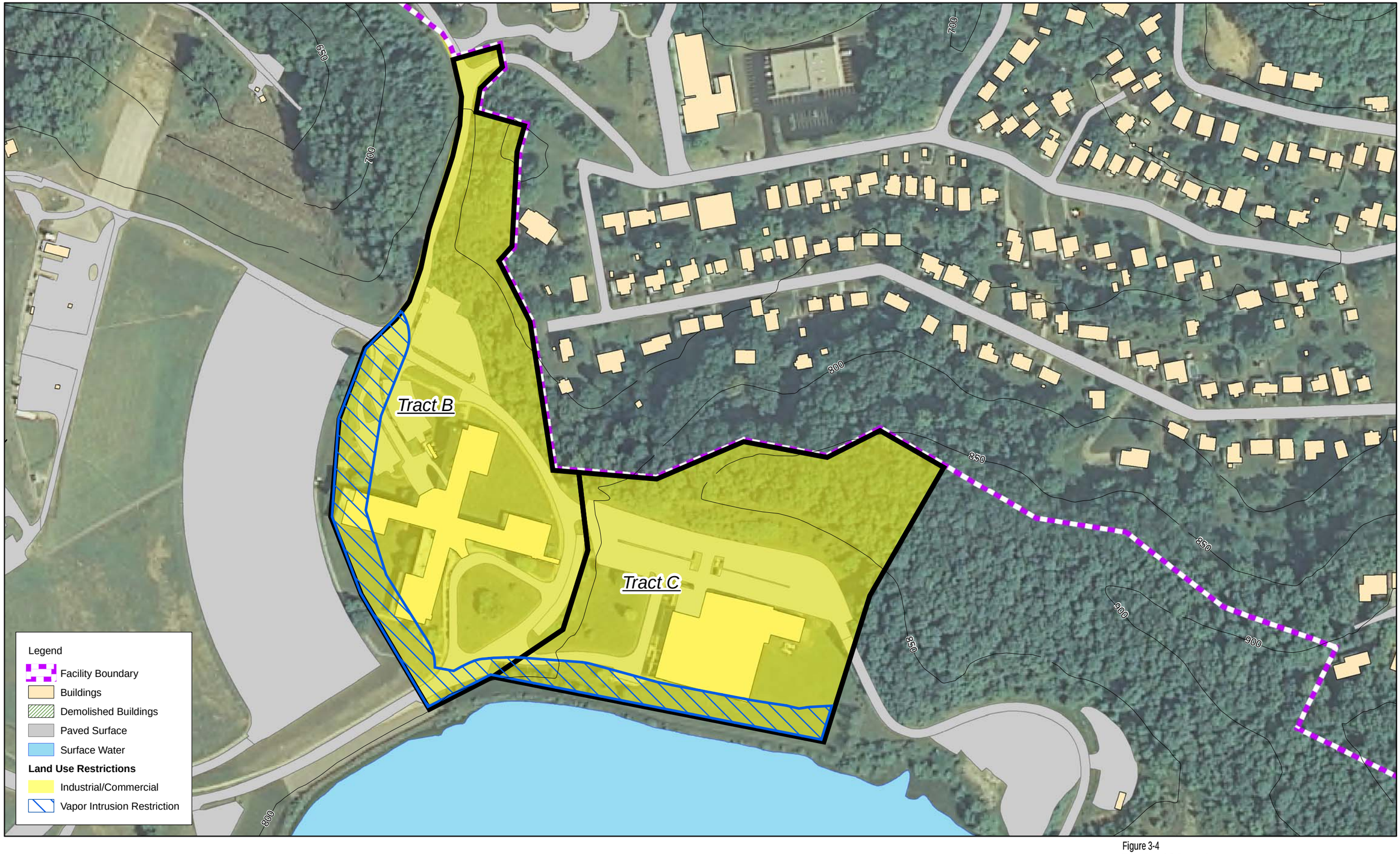

Figure 3-4
Tract B and C Restrictions
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

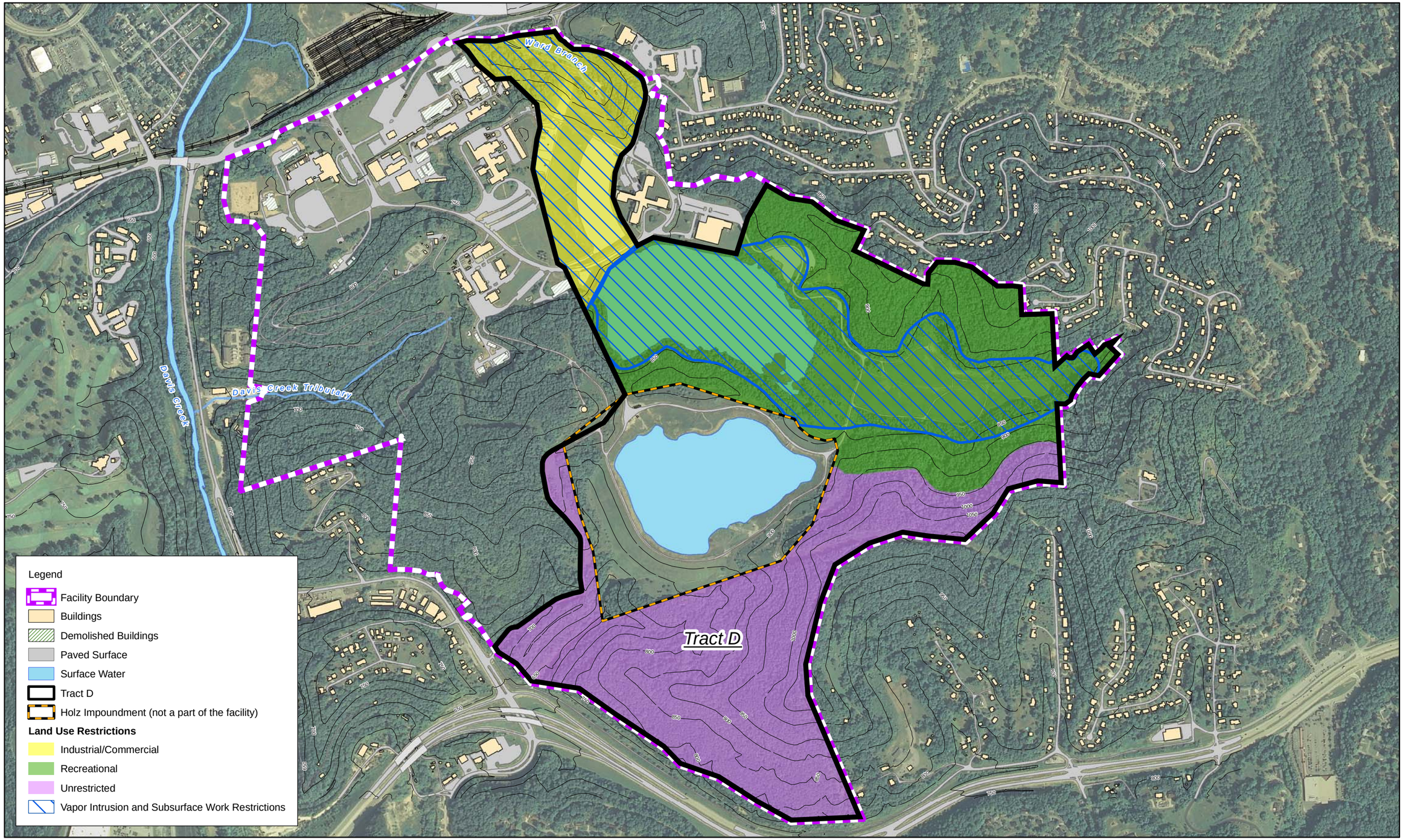

Figure 3-5
Tract D Restrictions
Corrective Measures Proposal
UCC Technology Park
South Charleston, West Virginia

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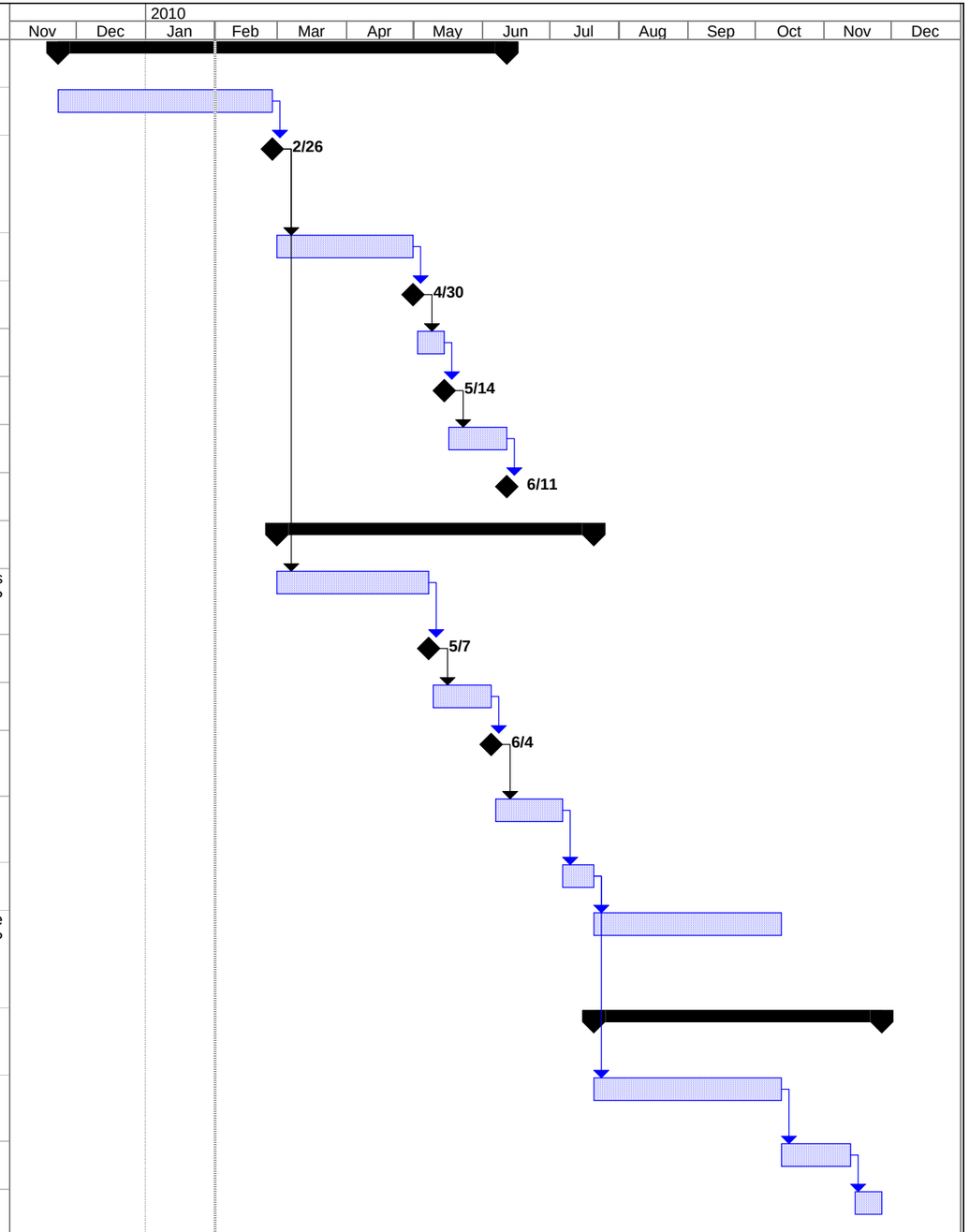
CH2MHILL

ID	Task Name	Duration	Start	Finish	Notes
1	**Corrective Measures Proposal**	**141 days**	**Mon 11/23/09**	**Fri 6/11/10**	
2	Draft CMP	66 days	Mon 11/23/09	Fri 2/26/10	
3	Submit Draft CMP to USEPA	0 days	Fri 2/26/10	Fri 2/26/10	
4	USEPA review	45 days	Mon 3/1/10	Fri 4/30/10	
5	USEPA comments	0 days	Fri 4/30/10	Fri 4/30/10	
6	Revise based on USEPA comments	10 days	Mon 5/3/10	Fri 5/14/10	
7	Submit Final CMP	0 days	Fri 5/14/10	Fri 5/14/10	
8	USEPA Review	20 days	Mon 5/17/10	Fri 6/11/10	
9	USEPA Approval	0 days	Fri 6/11/10	Fri 6/11/10	
10	**Statement of Basis**	**102 days**	**Mon 3/1/10**	**Tue 7/20/10**	
11	Draft Statement of Basis	50 days	Mon 3/1/10	Fri 5/7/10	Assumes UCC will prepare the Statement of Basis while USEPA is reviewing the CMP
12	Submit Draft to USEPA	0 days	Fri 5/7/10	Fri 5/7/10	
13	USEPA revisions to the Statement of Basis	20 days	Mon 5/10/10	Fri 6/4/10	
14	USEPA submits Statement of Basis for public comments	0 days	Fri 6/4/10	Fri 6/4/10	
15	Public Comment Period (including a public meeting)	22 days	Mon 6/7/10	Tue 7/6/10	
16	Incorporate public comments	10 days	Wed 7/7/10	Tue 7/20/10	
17	**Implementing the Restrictive Covenants**	60 days	Wed 7/21/10	Tue 10/12/10	Assumes draft language for the restrictive covenants will be agreed upon as part of the CMP
18	**Transfer of Site from Facility Lead to WVDEP Permit**	**93 days**	**Wed 7/21/10**	**Fri 11/26/10**	
19	WVDEP adds corrective action module to the existing permit	60 days	Wed 7/21/10	Tue 10/12/10	
20	Public Comment Period	23 days	Wed 10/13/10	Fri 11/12/10	
21	Incorporate public comments	10 days	Mon 11/15/10	Fri 11/26/10	



Task
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary
Group By Summary
Deadline

Figure 4-1
Schedule of Corrective Meaure Implementation
UCC Technology Park

Appendix A
UCC Technology Park Supplemental Investigations

UCC Technology Park Supplemental Investigations

PREPARED FOR: Union Carbide Corporation

PREPARED BY: CH2M HILL

DATE: March 9, 2010

PROJECT NUMBER: 387481.03.RP

Introduction

This technical memorandum documents supplemental data collected between 2007 and 2009 for the Union Carbide Corporation (UCC) Technology Park in South Charleston, West Virginia. The supplemental data was collected as part of due diligence to support potential future divestitures.

Investigation activities discussed in this technical memorandum are divided between the Phase II West Virginia University (WVU) Environmental Site Assessment (ESA) and the Divestiture Investigation, which are described below.

WVU Phase II ESA

A Phase II ESA was performed in 2007 as part of the environmental due diligence process by Triad Engineering (Triad) at the request of WVU. The work was completed to support an evaluation of a portion of the UCC Technology Park that UCC offered as a donation to WVU.

Field Activities

A total of 32 soil samples were collected for the WVU Phase II ESA Investigation. Table 1 lists the sample identification, sample media, sample interval, and analyses for the samples collected. Figure 1 shows the sample locations. Some of the samples collected as part of this investigation were from solid waste management units (SWMUs) 38 and 63 as shown on Figure 1.

Triad collected 20 surface soil samples (designated as SS-1 through SS-15, SS-17 through SS-21) from 0 to 2 feet below ground surface (bgs). The samples were collected using one of the following methods: direct-push technology (DPT), a stainless steel hand-auger, or a disposable scoop. Samples were analyzed for one or more of the following analytical groups: semivolatile organic compounds (SVOCs), Resource Conservation and Recovery Act (RCRA) metals, pesticides, herbicides, and Carbon-14.

Triad also collected 12 subsurface soil samples (designated as Sub-1 through Sub-12) from depths ranging from 3 to 12.5 feet bgs. The subsurface soil samples were collected using

DPT. Samples were analyzed for one more of the following analytical groups: volatile organic compounds (VOCs), SVOCs, RCRA metals, pesticides, herbicides, and Carbon-14.

Investigation Results

Laboratory analytical data were grouped and summarized by media. Table 3 compares the analytical results for detected constituents against screening levels; the laboratory data packages are provided as Attachment 1. Soil results were compared to the adjusted U.S. Environmental Protection Agency (USEPA) regional screening levels (RSLs) for chemical constituents (USEPA 2009) for residential and industrial soil and the mean natural background concentration for the State of West Virginia (West Virginia Department of Environmental Protection [WVDEP] 2001). The RSLs based on the constituent-specific noncarcinogenic effects were divided by 10 to account for potential exposure to multiple constituents (that is, a noncancer hazard quotient of 0.1). Detected results that exceed screening levels are discussed below and are shown on Figure 1.

VOCs

No VOCs were detected above the screening levels.

SVOCs

One SVOC (benzo[a]pyrene) was detected above the adjusted residential soil RSL (15 micrograms per kilogram [µg/kg]) but below the industrial soil RSL (210 µg/kg) at two soil sample locations (WVU-SS13 and WVU-SS14).

Metals

Arsenic was the only metal that exceeded the screening levels. Arsenic exceeded the industrial soil RSL (1.6 milligrams per kilogram [mg/kg]) and the mean West Virginia background concentration (8.64 mg/kg) at four soil sample locations (WVU-SS04, WVU-SS07, WVU-SS09, and WVU-SUB03). However, only WVU-SS04 (15.7 mg/kg) exceeded the maximum West Virginia background concentration (13 mg/kg).

Herbicides

No herbicides were detected above the screening levels.

Pesticides

No pesticides were detected above the screening levels.

Divestiture Investigation

The Divestiture Investigation is comprised of multiple sampling events performed by CH2M HILL from 2007 to 2009 at the request of UCC to support potential future divestitures.

Field Activities

A total of 47 soil samples and three waste samples were collected as part of the divestiture investigation. Table 2 lists the sample identification, sample media, sample interval, and

analyses for the samples collected. Figure 2 shows the sample locations. Some of the samples collected as part of this investigation were from SWMUs or investigation areas as shown on Figure 1.

In 2007, five surface soil samples and two subsurface soil samples were collected using either DPT or a stainless steel hand auger. Soil samples were analyzed for VOCs, SVOCs, and RCRA metals.

In 2008, 21 surface soil samples and five subsurface soil samples were collected. The samples were collected using DPT with the exception of TCF-130 and TCF-131, which were collected using a stainless steel hand auger because of their proximity to underground utility lines. Soil samples were analyzed for VOCs and SVOCs.

In August 2009, nine surface soil samples and 2 subsurface soil samples were collected using DPT. Sample location TCF-0071 was resampled and analyzed for mercury to evaluate the 2004 mercury result (5.66 mg/kg) for this location. Samples were also collected at TCF-0201 through TCF-0204 and analyzed for mercury to delineate the extent of mercury around TCF-0071. In addition, sample location WVU-SS04 was resampled. WVU-SS04 was resampled and analyzed for arsenic to evaluate the WVU Phase II ESA result (15.7 mg/kg) for this location. Samples were also collected at TCF-0205, TCF-0207, and TCF-0208 and analyzed for arsenic to delineate the extent of arsenic around WVU-SS04.

In November 2009, a subsurface soil sample and a waste sample from a black slag-like material were collected from three test pits (TCF-TestPit5, TCF-TestPit-6, and TCF-TestPit8) completed at SWMU 70. The samples were collected from the center of the backhoe bucket. The soil samples were analyzed for VOCs, SVOCs, and RCRA metals. The waste samples were only analyzed for VOCs and SVOCs.

Investigation Results

Laboratory analytical data were grouped and summarized by media. Table 4 compares the analytical results for detected constituents against screening levels; the laboratory data packages are provided in Attachment A. Results were compared to the USEPA RSLs for chemical constituents (USEPA 2009) for residential and industrial soil and the mean natural background concentration for the State of West Virginia (WVDEP 2001). The RSLs based on the constituent-specific noncarcinogenic effects were divided by 10 to account for potential exposure to multiple constituents (that is, a noncancer hazard quotient of 0.1). Detected results that exceed the screening levels are discussed below and shown on Figure 2.

VOCs

No VOCs were detected above the screening levels.

SVOCs

At a single location (TCF-0141) five polynuclear aromatic hydrocarbons (PAHs) were detected in the subsurface soil sample above the screening levels. Indeno (1,2,3-cd)pyrene was detected above the adjusted residential soil RSL (150 µg/kg) but below the adjusted industrial soil RSL (2,100 µg/kg). The other four PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenzo[a,h]anthracene) were detected above both the adjusted residential soil RSLs and the adjusted industrial soil RSLs.

Metals

Arsenic was detected at three locations (TCF-0090, TCF-TestPit6, and TCF-TestPit8) above both the adjusted industrial soil RSL (1.6 mg/kg) and the mean West Virginia background concentration (8.64 mg/kg). However, only TCF-0090 (14.8 mg/kg) exceeded the maximum West Virginia background concentration (13 mg/kg).

Mercury was not detected in the additional soil samples collected from TCF-0071 and mercury concentrations were nondetect or below the adjusted residential soil RSL for the soil samples collected near TCF-0071. Arsenic was detected in the additional soil samples collected from WVU-SS04 above the adjusted industrial soil RSL (1.6 mg/kg) but below the mean West Virginia background concentration (8.64 mg/kg). Arsenic concentrations in the soil samples collected near WVU-SS4 were also above the adjusted industrial soil RSL but were below the mean West Virginia background concentration.

References

U.S. Environmental Protection Agency (USEPA). 2009. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. May.

West Virginia Department of Environmental Protection (WVDEP). 2001. West Virginia Voluntary Remediation and Redevelopment Act. March 13.

Tables

TABLE 1
WVU Phase II Investigation Soil Sample Summary
UCC Technology Park
South Charleston, West Virginia

Sample Location	Sample ID	Sample Media	Sample Interval (ft)	VOCs	SVOCs	RCRA Metals	Pesticides	Herbicides	Carbon-14
WVU-SS01	SS-1 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS02	SS-2 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS03	SS-3 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS04	SS-4 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS05	SS-5 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS06	SS-6 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS07	SS-7 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS08	SS-8 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS09	SS-9 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS10	SS-10 (0-2')	Surface Soil	0.0 - 2.0			X	X	X	X
WVU-SS11	SS-11 (0-2') BG	Surface Soil	0.0 - 2.0						X
WVU-SS12	SS-12 (0-2')	Surface Soil	0.0 - 2.0		X	X	X	X	
WVU-SS13	SS-13 (0-2')	Surface Soil	0.0 - 2.0		X	X	X	X	
WVU-SS14	SS-14 (0-2')	Surface Soil	0.0 - 2.0		X	X	X	X	
WVU-SS15	SS-15 (0-2')	Surface Soil	0.0 - 2.0		X	X	X	X	
WVU-SS17	SS-17 (0-2')	Surface Soil	0.0 - 2.0		X	X	X	X	
	FD-2	Surface Soil	0.0 - 2.0		X	X	X	X	
WVU-SS18	SS-18 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS19	SS-19 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS20	SS-20 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SS21	SS-21 (0-2')	Surface Soil	0.0 - 2.0			X			
WVU-SUB01	SUB-1 (10-11.5')	Subsurface Soil	10.0 - 11.5		X	X			
WVU-SUB02	SUB-2 (10-11')	Subsurface Soil	10.0 - 11.0		X	X			
WVU-SUB03	SUB-3 (8-10')	Subsurface Soil	8.0 - 10.0		X	X			
WVU-SUB04	SUB-4 (2-3')	Subsurface Soil	2.0 - 3.0			X	X	X	X
WVU-SUB05	SUB-5 (2-3')	Subsurface Soil	2.0 - 3.0			X	X	X	X
WVU-SUB06	SUB-6 (6-8')	Subsurface Soil	6.0 - 8.0			X	X	X	X
WVU-SUB08	SUB-8 (4-6')	Subsurface Soil	4.0 - 6.0	X	X	X	X	X	
	FD-1	Subsurface Soil	4.0 - 6.0	X	X	X	X	X	
WVU-SUB09	SUB-9 (8-10')	Subsurface Soil	8.0 - 10.0	X	X	X	X	X	
WVU-SUB10	SUB-10 (4-6')	Subsurface Soil	4.0 - 6.0	X	X	X	X	X	
WVU-SUB11	SUB-11 (4-6')	Subsurface Soil	4.0 - 6.0	X	X	X	X	X	
WVU-SUB12	SUB-7 (2-4') BG	Subsurface Soil	2.0 - 4.0						X
	SUB-7 (6-8')	Subsurface Soil	6.0 - 8.0	X	X	X	X	X	

TABLE 2
Divestiture Investigations Soil and Waste Sample Summary
UCC Technology Park
South Charleston, West Virginia

Sample Location	Sample ID	Sample Media	Sample Interval (ft)	Analyte				
				VOCs	SVOCs	RCRA Metals	Arsenic	Mercury
2007								
TCF-0088	0076-SO-092007	Surface Soil	0.0 - 2.0	X	X	X		
	0076-SO-092007/FD	Surface Soil	0.0 - 2.0	X	X	X		
TCF-0089	0077-SO-092007	Subsurface Soil	11.0 - 12.0	X	X	X		
TCF-0090	0078-SO-092007	Surface Soil	0.0 - 2.0	X	X	X		
TCF-0091	0079-SO-092007	Subsurface Soil	3.0 - 4.0	X	X	X		
TCF-0092	0080-SO-092007	Surface Soil	0.0 - 2.0	X	X	X		
TCF-0093	0081-SO-092007	Surface Soil	0.0 - 2.0	X	X	X		
TCF-0097	0085-SO-092107	Surface Soil	0.0 - 2.0	X	X	X		
2008								
TCF-0125	0125-SO01-051308	Surface Soil	0.5 - 2.5	X	X			
TCF-0126	0126-SO01-051308	Surface Soil	0.0 - 2.0	X	X			
TCF-0127	0127-SO01-052308	Subsurface Soil	2.0 - 3.0	X	X			
TCF-0128	0128-SO01-052308	Surface Soil	1.0 - 2.0	X	X			
TCF-0129	0129-SO01-051508	Surface Soil	0.0 - 2.0	X	X			
TCF-0130	0130-SO01-052308	Surface Soil	0.0 - 1.0	X	X			
TCF-0131	0131-SO01-052308	Surface Soil	0.0 - 1.0	X	X			
TCF-0132	0132-SO01-051508	Surface Soil	0.0 - 2.0	X	X			
	0132-SO02-051508	Subsurface Soil	5.0 - 7.0	X	X			
TCF-0133	0133-SO01-051508	Surface Soil	0.0 - 2.0	X	X			
TCF-0134	0134-SO01-051308	Surface Soil	0.0 - 2.0	X	X			
TCF-0135	0135-SO01-051308	Surface Soil	0.0 - 2.0	X	X			
	0135-SO02-051308	Subsurface Soil	8.0 - 10.0	X	X			
TCF-0136	0136-SO01-051308	Surface Soil	0.5 - 2.5	X	X			
	0136-SO02-051308	Subsurface Soil	2.5 - 3.5	X	X			
TCF-0137	0137-SO01-050708	Surface Soil	0.0 - 2.0	X	X			
TCF-0138	0138-SO01-050708	Surface Soil	0.0 - 2.0	X	X			
	0138-SO01-050708D	Surface Soil	0.0 - 2.0	X	X			
TCF-0139	0139-SO01-050708	Surface Soil	0.0 - 2.0	X	X			
TCF-0140	0140-SO01-050808	Surface Soil	0.0 - 2.0	X	X			
TCF-0141	0141-SO01-050708	Surface Soil	0.0 - 1.0	X	X			
	0141-SO02-050708	Subsurface Soil	4.0 - 6.0	X	X			
TCF-0142	0142-SO01-050808	Surface Soil	0.0 - 1.0	X	X			
TCF-0143	0143-SO01-050808	Surface Soil	0.0 - 2.0	X	X			
TCF-0144	0144-SO01-050808	Surface Soil	0.0 - 0.5	X	X			
TCF-0145	0145-SO01-050708	Surface Soil	0.0 - 1.0	X	X			
TCF-0146	0146-SO01-050708	Surface Soil	0.0 - 2.0	X	X			

TABLE 2
Divestiture Investigations Soil and Waste Sample Summary
UCC Technology Park
South Charleston, West Virginia

Sample Location	Sample ID	Sample Media	Sample Interval (ft)	Analyte				
				VOCs	SVOCs	RCRA Metals	Arsenic	Mercury
2009								
TCF-0071	0071-SS-083109	Surface Soil	0.5 - 2.0					X
	0071-SO-083109	Subsurface Soil	2.0 - 3.5					X
	0071-SO-083109-FD	Subsurface Soil	2.0 - 3.5					X
TCF-0201	0201-SS-083109	Surface Soil	0.5 - 2.0					X
TCF-0202	0202-SS-083109	Surface Soil	0.5 - 2.0					X
TCF-0203	0203-SS-083109	Surface Soil	0.5 - 2.0					X
TCF-0204	0204-SS-083109	Surface Soil	0.5 - 2.0					X
WVU-SS04	SS4-SS-0831-09	Surface Soil	0.0 - 2.0				X	
	SS4-SO-0831-09	Subsurface Soil	2.0 - 4.0				X	
	SS4-SO-083109-FD	Subsurface Soil	2.0 - 4.0				X	
TCF-0205	0205-SS-083109	Surface Soil	0.0 - 2.0				X	
TCF-0207	0207-SS-083109	Surface Soil	0.0 - 2.0				X	
TCF-0208	0208-SS-083109	Surface Soil	0.0 - 2.0				X	
TCF-TestPit5	TestPit 5-WS-110409	Subsurface Waste	4.0 - 4.0	X	X			
	TestPit 5-SO-110409	Subsurface Soil	6.0 - 6.0	X	X	X		
TCF-TestPit6	TestPit 6-WS-110409	Subsurface Waste	5.0 - 8.0	X	X			
	TestPit 6-SO-110409	Subsurface Soil	10.0 - 12.0	X	X	X		
TCF-TestPit8	TestPit 8-WS-110409	Subsurface Waste	2.0 - 4.0	X	X			
	TestPit 8-SO-110409	Subsurface Soil	6.0 - 6.0	X	X	X		

TABLE 2
WVU Phase II Investigation Detected Soil Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location / Sample ID / Sample Depth (ft) / Sample Date											
				WVU-SS01 SS-1 (0-2') 0 - 2 6/25/2007	WVU-SS02 SS-2 (0-2') 0 - 2 6/25/2007	WVU-SS03 SS-3 (0-2') 0 - 2 6/25/2007	WVU-SS04 SS-4 (0-2') 0 - 2 6/25/2007	WVU-SS05 SS-5 (0-2') 0 - 2 6/25/2007	WVU-SS06 SS-6 (0-2') 0 - 2 6/26/2007	WVU-SS07 SS-7 (0-2') 0 - 2 6/26/2007	WVU-SS08 SS-8 (0-2') 0 - 2 6/26/2007	WVU-SS09 SS-9 (0-2') 0 - 2 6/26/2007	WVU-SS10 SS-10 (0-2) 0 - 2 6/26/2007	WVU-SS11 SS-11 (0-2') BG 0 - 2 6/26/2007	WVU-SS12 SS-12 (0-2) 0 - 2 6/26/2007
Volatile Organics (µg/kg)															
Acetone	--	6,100,000	61,000,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	--	1,100	5,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	--	67,000	300,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	--	3,900	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	459 U NV
p-Isopropyltoluene	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	--	500,000	4,600,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics (µg/kg)															
Benzo (g,h,i) perylene	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	310 U NV
Benzo(a)anthracene	--	150	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	424 U NV
Benzo(a)pyrene	--	15	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	459 U NV
Benzo(b)fluoranthene	--	150	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	436 U NV
Benzo(k)fluoranthene	--	1,500	21,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	527 U NV
Chrysene	--	15,000	210,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	447 U NV
Fluoranthene	--	230,000	2,200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	482 U NV
Indeno(1,2,3-cd)pyrene	--	150	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	390 U NV
Phenanthrene	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	459 U NV
Pyrene	--	170,000	1,700,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	539 U NV
Herbicides (µg/kg)															
2,4-D	--	69,000	770,000	NA	NA	NA	NA	13.5 U NV	13 U NV	14.7 U NV	13.1 U NV	12.6 U NV	12.7 U NV	NA	14.2 U NV
Pesticides (µg/kg)															
Dieldrin	--	30	110	NA	NA	NA	NA	0.555 U NV	0.528 U NV	0.605 U NV	0.536 U NV	0.515 U NV	0.522 U NV	NA	**13 NV**
Metals (mg/kg)															
Arsenic	8.64	0.39	1.6	**5.53 NV**	**0.893 J NV**	0.883 U NV	**15.7 NV**	**2.95 NV**	**1.2 NV**	**11.2 NV**	0.932 U NV	**8.76 NV**	**1.05 NV**	NA	**5.07 NV**
Barium	360	1,500	19,000	**254 NV**	**118 NV**	**64.9 NV**	**268 NV**	**32.6 NV**	**37 NV**	**38.1 NV**	**95.2 NV**	**11.2 NV**	**73 NV**	NA	**189 NV**
Cadmium	NA	7	80	0.209 U NV	0.208 U NV	0.205 U NV	0.203 U NV	0.222 U NV	0.219 U NV	**1.49 NV**	0.217 U NV	**0.427 J NV**	0.21 U NV	NA	0.236 U NV
Chromium	46	280	1,400	**31.8 NV**	**9.49 NV**	**12.7 NV**	**30.8 NV**	**17.7 NV**	**8.18 NV**	**19.6 NV**	**18.3 NV**	**11.5 NV**	**7.24 NV**	NA	**42.5 NV**
Lead	16.5	400	800	**21.5 NV**	**10.6 NV**	**8.38 NV**	**18.7 NV**	**13.9 NV**	**43.9 NV**	**69.9 NV**	**13 NV**	**13.2 NV**	**9.55 NV**	NA	**46.5 NV**
Mercury	0.14	2.3	31	**0.0529 J NV**	0.0305 U NV	0.0311 U NV	0.0315 U NV	**0.0576 J NV**	**0.0477 J NV**	**0.045 J NV**	**0.0484 J NV**	0.0316 U NV	0.031 U NV	NA	**0.512 NV**
Selenium	0.465	39	510	1.57 U NV	1.56 U NV	1.54 U NV	**1.7 J NV**	1.67 U NV	1.64 U NV	**6.65 NV**	1.62 U NV	**2.72 NV**	1.58 U NV	NA	1.77 U NV
MISC (pCi/g)															
Carbon-14	--	--	--	NA	NA	NA	NA	0 U NV	**1.54 NV**	0 U NV	0 U NV	0 U NV	0 U NV	**0.851 NV**	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
NV = Not validated
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
pCi/g = picoCuries per Gram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the background concentration

TABLE 2
WVU Phase II Investigation Detected Soil Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	WVU-SS13	WVU-SS14	WVU-SS15	WVU-SS17		WVU-SS18	WVU-SS19	WVU-SS20	WVU-SS21	WVU-SUB01	WVU-SUB02	WVU-SUB03
				Sample ID	SS-13 (0-2)	SS-14 (0-2')	SS-15 (0-2')	FD-2	SS-17 (0-2')	SS-18 (0-2')	SS-19 (0-2')	SS-20 (0-2')	SS-21 (0-2')	SUB-1 (10'-11_5')	SUB-2 (10'-11')	SUB-3 (8'-10')
				Sample Depth (ft)	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	10 - 11.5	10 - 11	8 - 10
				Sample Date	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/27/2007	6/27/2007	6/27/2007	6/27/2007	6/25/2007	6/25/2007	6/25/2007
Volatile Organics (µg/kg)																
Acetone	--	6,100,000	61,000,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	--	1,100	5,600		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	--	67,000	300,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	--	3,900	20,000		44.5 U NV	45.8 U NV	45.5 U NV	47.1 U NV	47 U NV	NA	NA	NA	NA	47.8 U NV	45.7 U NV	457 U NV
p-Isopropyltoluene	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	--	500,000	4,600,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics (µg/kg)																
Benzo (g,h,i) perylene	--	--	--		**54.1 J NV**	**72.6 J NV**	30.7 U NV	31.8 U NV	31.7 U NV	NA	NA	NA	NA	32.3 U NV	30.8 U NV	308 U NV
Benzo(a)anthracene	--	150	2,100		**64.1 J NV**	42.4 U NV	42 U NV	43.5 U NV	43.5 U NV	NA	NA	NA	NA	44.2 U NV	42.2 U NV	422 U NV
Benzo(a)pyrene	--	15	210		**91.5 J NV**	**90.5 J NV**	45.5 U NV	47.1 U NV	47 U NV	NA	NA	NA	NA	47.8 U NV	45.7 U NV	457 U NV
Benzo(b)fluoranthene	--	150	2,100		42.2 U NV	**94.7 J NV**	43.2 U NV	44.7 U NV	44.6 U NV	NA	NA	NA	NA	45.4 U NV	43.4 U NV	434 U NV
Benzo(k)fluoranthene	--	1,500	21,000		51.1 U NV	**91.7 J NV**	52.3 U NV	54.1 U NV	54 U NV	NA	NA	NA	NA	55 U NV	52.5 U NV	525 U NV
Chrysene	--	15,000	210,000		**90.4 J NV**	**108 J NV**	44.3 U NV	45.9 U NV	45.8 U NV	NA	NA	NA	NA	46.6 U NV	44.5 U NV	445 U NV
Fluoranthene	--	230,000	2,200,000		**163 J NV**	**229 J NV**	47.7 U NV	49.4 U NV	49.3 U NV	NA	NA	NA	NA	50.2 U NV	47.9 U NV	480 U NV
Indeno(1,2,3-cd)pyrene	--	150	2,100		**46.7 J NV**	**60 J NV**	38.6 U NV	40 U NV	39.9 U NV	NA	NA	NA	NA	40.6 U NV	38.8 U NV	388 U NV
Phenanthrene	--	--	--		**63.4 J NV**	**100 J NV**	45.5 U NV	47.1 U NV	47 U NV	NA	NA	NA	NA	47.8 U NV	45.7 U NV	457 U NV
Pyrene	--	170,000	1,700,000		**129 J NV**	**169 J NV**	53.4 U NV	55.3 U NV	55.2 U NV	NA	NA	NA	NA	56.2 U NV	53.7 U NV	537 U NV
Herbicides (µg/kg)																
2,4-D	--	69,000	770,000		13.8 U NV	**15.3 J NV**	14 U NV	14.3 U NV	14.6 U NV	NA	NA	NA	NA	NA	NA	NA
Pesticides (µg/kg)																
Dieldrin	--	30	110		0.566 U NV	0.602 U NV	0.572 U NV	0.582 U NV	0.608 U NV	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																
Arsenic	8.64	0.39	1.6		**7.29 NV**	**1.94 NV**	**3.78 NV**	**7.35 NV**	**5.12 NV**	**3.11 NV**	**2.98 NV**	3.13 U NV	5.23 U NV	**7.5 NV**	**3.66 NV**	**9.44 NV**
Barium	360	1,500	19,000		**263 NV**	**232 NV**	**199 NV**	**103 NV**	**108 NV**	**173 NV**	**141 NV**	**308 NV**	**222 NV**	**155 NV**	**148 NV**	**105 NV**
Cadmium	NA	7	80		0.225 U NV	0.231 U NV	0.235 U NV	0.231 U NV	**0.893 J NV**	**3.27 NV**	**1.06 NV**	**6.98 NV**	**5.71 J NV**	0.247 U NV	0.229 U NV	**0.687 J NV**
Chromium	46	280	1,400		**39.3 NV**	**17 NV**	**25.6 NV**	**25.3 NV**	**30.9 NV**	**97.8 NV**	**40.9 NV**	**109 NV**	**59.1 NV**	**45.3 NV**	**40.2 NV**	**28 NV**
Lead	16.5	400	800		**26.9 NV**	**115 NV**	**24.3 NV**	**15.4 NV**	**18 NV**	**56.9 NV**	**17.2 NV**	**44.6 NV**	**42 NV**	**21.6 NV**	**16.5 NV**	**16.5 NV**
Mercury	0.14	2.3	31		**0.0506 J NV**	**0.245 NV**	**0.0748 J NV**	**0.0447 J NV**	0.0356 U NV	**0.473 NV**	**0.0374 J NV**	**0.267 J NV**	**0.51 J NV**	0.0364 U NV	0.0343 U NV	**0.0727 J NV**
Selenium	0.465	39	510		1.69 U NV	1.73 U NV	1.76 U NV	1.73 U NV	**6.44 NV**	**2.15 NV**	1.55 U NV	**6.1 J NV**	**9.31 J NV**	1.85 U NV	1.71 U NV	**3.81 NV**
MISC (pCi/g)																
Carbon-14	--	--	--		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
NV = Not validated
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
pCi/g = picoCuries per Gram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the background concentration

TABLE 2
WVU Phase II Investigation Detected Soil Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	WVU-SUB04	WVU-SUB05	WVU-SUB06	WVU-SUB08		WVU-SUB09	WVU-SUB10	WVU-SUB11	WVU-SUB12	
				Sample ID	SUB-4 (2'-3')	SUB-5 (2'-3')	SUB-6 (6'-8')	FD-1	SUB-8 (4'-6')	SUB-9 (8'-10')	SUB-10 (4'-6')	SUB-11 (4-6)	SUB-7 (2'4') BG	SUB-7 (6'-8')
				Sample Depth (ft)	2 - 3	2 - 3	6 - 8	4 - 6	4 - 6	8 - 10	4 - 6	4 - 6	2 - 4	6 - 8
				Sample Date	6/25/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007	6/26/2007
Volatile Organics (µg/kg)														
Acetone	--	6,100,000	61,000,000		NA	NA	NA	**37.5 J NV**	**42.6 J NV**	**60.8 NV**	**36.3 J NV**	**31.7 J NV**	NA	**65.1 NV**
Benzene	--	1,100	5,600		NA	NA	NA	**4.23 NV**	0.721 U NV	0.712 U NV	0.766 U NV	0.724 U NV	NA	**3.27 NV**
Carbon Disulfide	--	67,000	300,000		NA	NA	NA	0.453 U NV	**1.83 J NV**	**3.17 J NV**	0.677 U NV	0.639 U NV	NA	**1.73 J NV**
Naphthalene	--	3,900	20,000		NA	NA	NA	**4.08 J NV**	0.974 U NV	0.961 U NV	1.03 U NV	0.977 U NV	NA	0.981 U NV
p-Isopropyltoluene	--	--	--		NA	NA	NA	0.581 U NV	0.817 U NV	0.807 U NV	0.868 U NV	0.82 U NV	NA	**1.02 J NV**
Toluene	--	500,000	4,600,000		NA	NA	NA	0.564 U NV	0.793 U NV	0.783 U NV	0.843 U NV	0.796 U NV	NA	**1.23 J NV**
Semivolatile Organics (µg/kg)														
Benzo (g,h,i) perylene	--	--	--		NA	NA	NA	30.3 U NV	31.2 U NV	158 U NV	34.4 U NV	32.4 U NV	NA	32.1 U NV
Benzo(a)anthracene	--	150	2,100		NA	NA	NA	41.5 U NV	42.7 U NV	216 U NV	47.1 U NV	44.4 U NV	NA	44 U NV
Benzo(a)pyrene	--	15	210		NA	NA	NA	44.8 U NV	46.2 U NV	234 U NV	50.9 U NV	48 U NV	NA	47.6 U NV
Benzo(b)fluoranthene	--	150	2,100		NA	NA	NA	42.6 U NV	43.8 U NV	222 U NV	48.4 U NV	45.6 U NV	NA	45.2 U NV
Benzo(k)fluoranthene	--	1,500	21,000		NA	NA	NA	51.6 U NV	53.1 U NV	269 U NV	58.6 U NV	55.2 U NV	NA	54.7 U NV
Chrysene	--	15,000	210,000		NA	NA	NA	43.7 U NV	45 U NV	228 U NV	49.6 U NV	46.8 U NV	NA	46.4 U NV
Fluoranthene	--	230,000	2,200,000		NA	NA	NA	47.1 U NV	48.5 U NV	245 U NV	53.5 U NV	50.4 U NV	NA	50 U NV
Indeno(1,2,3-cd)pyrene	--	150	2,100		NA	NA	NA	38.1 U NV	39.2 U NV	199 U NV	43.3 U NV	40.8 U NV	NA	40.5 U NV
Phenanthrene	--	--	--		NA	NA	NA	44.8 U NV	46.2 U NV	234 U NV	50.9 U NV	48 U NV	NA	47.6 U NV
Pyrene	--	170,000	1,700,000		NA	NA	NA	52.7 U NV	54.2 U NV	274 U NV	59.8 U NV	56.4 U NV	NA	55.9 U NV
Herbicides (µg/kg)														
2,4-D	--	69,000	770,000		13.5 U NV	13 U NV	14.7 U NV	13.9 U NV	14.4 U NV	14.2 U NV	15.3 U NV	14.5 U NV	NA	14.5 U NV
Pesticides (µg/kg)														
Dieldrin	--	30	110		0.554 U NV	0.538 U NV	0.603 U NV	0.561 U NV	0.593 U NV	0.588 U NV	0.636 U NV	0.598 U NV	NA	0.593 U NV
Metals (mg/kg)														
Arsenic	8.64	0.39	1.6		0.962 U NV	**3.66 NV**	1.01 U NV	**5.59 NV**	**6.07 NV**	**3.37 NV**	**6.93 NV**	**7.81 NV**	NA	**1.86 NV**
Barium	360	1,500	19,000		**17.9 NV**	**28.5 NV**	**164 NV**	**136 NV**	**156 NV**	**153 NV**	**231 NV**	**70.1 NV**	NA	**157 NV**
Cadmium	NA	7	80		0.224 U NV	**0.547 J NV**	0.234 U NV	0.232 U NV	0.232 U NV	0.239 U NV	0.248 U NV	0.234 U NV	NA	0.235 U NV
Chromium	46	280	1,400		**12.3 NV**	**13 NV**	**20.8 NV**	**26.9 NV**	**29.5 NV**	**23 NV**	**24.5 NV**	**24.2 NV**	NA	**27.2 NV**
Lead	16.5	400	800		**10.6 NV**	**5.57 NV**	**27.8 NV**	**18 NV**	**18.6 NV**	**16.9 NV**	**33.2 NV**	**16 NV**	NA	**22.7 NV**
Mercury	0.14	2.3	31		0.0329 U NV	0.0327 U NV	**0.277 NV**	**0.0373 J NV**	**0.0352 J NV**	**0.0441 J NV**	**0.0519 J NV**	0.0347 U NV	NA	**0.058 J NV**
Selenium	0.465	39	510		1.68 U NV	**3.28 NV**	1.76 U NV	1.74 U NV	1.74 U NV	1.79 U NV	**1.89 J NV**	1.75 U NV	NA	1.76 U NV
MISC (pCi/g)														
Carbon-14	--	--	--		**0.081 NV**	**0.073 NV**	0 U NV	NA	NA	NA	NA	NA	**0.507 NV**	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
NV = Not validated
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
pCi/g = picoCuries per Gram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location								
				Sample ID	0071-SS-083109	TCF-0071 0071-SO-083109	0071-SO-083109-FD	0076-SO-092007	TCF-0088 0076-SO-092007/FD	TCF-0089 0077-SO-092007	TCF-0090 0078-SO-092007	TCF-0091 0079-SO-092007	TCF-0092 0080-SO-092007
				Sample Depth (ft)	0.5 - 2	2 - 3.5	2 - 3.5	0 - 2	0 - 2	11 - 12	0 - 2	3 - 4	0 - 2
				Sample Date	8/31/2009	8/31/2009	8/31/2009	9/20/2007	9/20/2007	9/20/2007	9/20/2007	9/20/2007	9/20/2007
Volatile Organics (µg/kg)													
1,1-Dichloroethane	--	3,400	17,000	NA	NA	NA	4.56 U	5.34 U	4.93 U	4.35 U	5.33 U	5.11 U	
1,1-Dichloroethene	--	25,000	110,000	NA	NA	NA	4.56 U	5.34 U	4.93 U	4.35 U	5.33 U	5.11 U	
Naphthalene	--	3,900	20,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Tetrachloroethene	--	570	2,700	NA	NA	NA	4.56 U	5.34 U	4.93 U	4.35 U	5.33 U	5.11 U	
Semivolatile Organics (µg/kg)													
2-Methylnaphthalene	--	31,000	410,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Acenaphthene	--	340,000	3,300,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Anthracene	--	1,700,000	17,000,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Benzo (g,h,i) perylene	--	--	--	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Benzo(a)anthracene	--	150	2,100	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Benzo(a)pyrene	--	15	210	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Benzo(b)fluoranthene	--	150	2,100	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Benzo(k)fluoranthene	--	1,500	21,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
bis(2-Ethylhexyl)phthalate	--	35,000	120,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Carbazole	--	--	--	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Chrysene	--	15,000	210,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Dibenzo (a,h) anthracene	--	15	210	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Dibenzofuran	--	--	--	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Fluoranthene	--	230,000	2,200,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Fluorene	--	230,000	2,200,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Indeno(1,2,3-cd)pyrene	--	150	2,100	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Pentachlorophenol	--	3,000	9,000	NA	NA	NA	8470 U	9350 U	9620 U	9520 U	1000 U	47100 U	
Phenanthrene	--	--	--	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Pyrene	--	170,000	1,700,000	NA	NA	NA	1690 U	1870 U	1920 U	1900 U	200 U	9420 U	
Metals (mg/kg)													
Arsenic	8.64	0.39	1.6	NA	NA	NA	**4.51**	**5.55**	**7.89**	**14.8**	**5.28**	**7.06**	
Barium	360	1,500	19,000	NA	NA	NA	**115**	**84.8**	**182**	**158**	**115**	**136**	
Chromium	46	280	1,400	NA	NA	NA	**19.9**	**16.8**	**19.8**	**20.3**	**24.4**	**23.6**	
Lead	16.5	400	800	NA	NA	NA	**21.3**	**15.8**	**17.2**	**22.2**	**21**	**27**	
Mercury	0.14	2.3	31	0.307 U	0.279 U	0.28 U	0.259 U	0.275 U	0.29 U	0.281 U	0.287 U	0.275 U	
Selenium	0.465	39	510	NA	NA	NA	**0.254**	**0.273**	**0.272**	**0.318**	0.243 U	**0.548**	

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was below the reported sample quantitation limit. However, the reported value is approximate.
UL = Non-detect, biased low
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the facility background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	TCF-0093	TCF-0097	TCF-0125	TCF-0126	TCF-0127	TCF-0128	TCF-0129	TCF-0130
				Sample ID	0081-SO-092007	0085-SO-092107	0125-SO01-051308	0126-SO01-051308	0127-SO01-052308	0128-SO01-052308	0129-SO01-051508	0130-SO01-052308
				Sample Depth (ft)	0 - 2	0 - 2	0.5 - 2.5	0 - 2	2 - 3	1 - 2	0 - 2	0 - 1
				Sample Date	9/20/2007	9/21/2007	5/13/2008	5/13/2008	5/23/2008	5/23/2008	5/15/2008	5/23/2008
Volatile Organics (µg/kg)												
1,1-Dichloroethane	--	3,400	17,000		4.77 U	4.25 UJ	5.09 U	**17.2**	4.68 UJ	4.74 UJ	4.48 U	4.16 UJ
1,1-Dichloroethene	--	25,000	110,000		4.77 U	4.25 UJ	5.09 U	**12.8**	4.68 U	4.74 U	4.48 U	4.16 U
Naphthalene	--	3,900	20,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Tetrachloroethene	--	570	2,700		4.77 U	4.25 UJ	5.09 U	4.58 U	4.68 U	4.74 U	4.48 U	**6.51**
Semivolatile Organics (µg/kg)												
2-Methylnaphthalene	--	31,000	410,000		184 U	176 UJ	196 U	194 U	170 UL	188 UL	188 U	169 UL
Acenaphthene	--	340,000	3,300,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Anthracene	--	1,700,000	17,000,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Benzo (g,h,i) perylene	--	--	--		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Benzo(a)anthracene	--	150	2,100		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Benzo(a)pyrene	--	15	210		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Benzo(b)fluoranthene	--	150	2,100		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Benzo(k)fluoranthene	--	1,500	21,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
bis(2-Ethylhexyl)phthalate	--	35,000	120,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Carbazole	--	--	--		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Chrysene	--	15,000	210,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Dibenzo (a,h) anthracene	--	15	210		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Dibenzofuran	--	--	--		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Fluoranthene	--	230,000	2,200,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Fluorene	--	230,000	2,200,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Indeno(1,2,3-cd)pyrene	--	150	2,100		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Pentachlorophenol	--	3,000	9,000		920 UJ	879 UJ	978 U	970 U	849 U	941 U	942 U	843 U
Phenanthrene	--	--	--		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Pyrene	--	170,000	1,700,000		184 U	176 UJ	196 U	194 U	170 U	188 U	188 U	169 U
Metals (mg/kg)												
Arsenic	8.64	0.39	1.6		**5.49**	**5.54 J**	NA	NA	NA	NA	NA	NA
Barium	360	1,500	19,000		**162**	**186 J**	NA	NA	NA	NA	NA	NA
Chromium	46	280	1,400		**21**	**19.8 J**	NA	NA	NA	NA	NA	NA
Lead	16.5	400	800		**25.9**	**22.6 J**	NA	NA	NA	NA	NA	NA
Mercury	0.14	2.3	31		0.275 U	0.273 UJ	NA	NA	NA	NA	NA	NA
Selenium	0.465	39	510		**0.794**	**1.3 J**	NA	NA	NA	NA	NA	NA

Notes:

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UJ = The analyte was below the reported sample quantitation limit. However, the reported value is approximate.
UL = Non-detect, biased low
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the facility background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	TCF-0131	TCF-0132		TCF-0133	TCF-0134	TCF-0135	
				Sample ID	0131-SO01-052308	0132-SO01-051508	0132-SO02-051508	0133-SO01-051508	0134-SO01-051308	0135-SO01-051308	0135-SO02-051308
				Sample Depth (ft)	0 - 1	0 - 2	5 - 7	0 - 2	0 - 2	0 - 2	8 - 10
				Sample Date	5/23/2008	5/15/2008	5/15/2008	5/15/2008	5/13/2008	5/13/2008	5/13/2008
Volatile Organics (µg/kg)											
1,1-Dichloroethane	--	3,400	17,000		4.64 UJ	4.23 U	4.65 U	4.66 U	4.66 U	4.35 U	4.68 U
1,1-Dichloroethene	--	25,000	110,000		4.64 U	4.23 U	4.65 U	4.66 U	4.66 U	4.35 U	4.68 U
Naphthalene	--	3,900	20,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Tetrachloroethene	--	570	2,700		4.64 U	4.23 U	**5.31**	4.66 U	4.66 U	4.35 U	4.68 U
Semivolatile Organics (µg/kg)											
2-Methylnaphthalene	--	31,000	410,000		191 UL	178 U	182 U	181 U	190 U	177 U	198 U
Acenaphthene	--	340,000	3,300,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Anthracene	--	1,700,000	17,000,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Benzo (g,h,i) perylene	--	--	--		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Benzo(a)anthracene	--	150	2,100		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Benzo(a)pyrene	--	15	210		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Benzo(b)fluoranthene	--	150	2,100		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Benzo(k)fluoranthene	--	1,500	21,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
bis(2-Ethylhexyl)phthalate	--	35,000	120,000		191 U	**506**	182 U	181 U	190 U	177 U	198 U
Carbazole	--	--	--		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Chrysene	--	15,000	210,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Dibenzo (a,h) anthracene	--	15	210		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Dibenzofuran	--	--	--		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Fluoranthene	--	230,000	2,200,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Fluorene	--	230,000	2,200,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Indeno(1,2,3-cd)pyrene	--	150	2,100		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Pentachlorophenol	--	3,000	9,000		954 U	**1470**	911 U	907 U	952 U	884 U	992 U
Phenanthrene	--	--	--		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Pyrene	--	170,000	1,700,000		191 U	178 U	182 U	181 U	190 U	177 U	198 U
Metals (mg/kg)											
Arsenic	8.64	0.39	1.6		NA	NA	NA	NA	NA	NA	NA
Barium	360	1,500	19,000		NA	NA	NA	NA	NA	NA	NA
Chromium	46	280	1,400		NA	NA	NA	NA	NA	NA	NA
Lead	16.5	400	800		NA	NA	NA	NA	NA	NA	NA
Mercury	0.14	2.3	31		NA	NA	NA	NA	NA	NA	NA
Selenium	0.465	39	510		NA	NA	NA	NA	NA	NA	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
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mg/kg = Milligrams per Kilogram
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Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
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TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	TCF-0136		TCF-0137	TCF-0138		TCF-0139	TCF-0140
				Sample ID	0136-SO01-051308	0136-SO02-051308	0137-SO01-050708	0138-SO01-050708 D	0138-SO01-050708	0139-SO01-050708	0140-SO01-050808
				Sample Depth (ft)	0.5 - 2.5	2.5 - 3.5	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
				Sample Date	5/13/2008	5/13/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/8/2008
Volatile Organics (µg/kg)											
1,1-Dichloroethane	--	3,400	17,000		4.89 U	4.47 U	4.3 U	3.84 U	4.22 U	4.56 U	4.71 U
1,1-Dichloroethene	--	25,000	110,000		4.89 U	4.47 U	4.3 U	3.84 U	4.22 U	4.56 U	4.71 U
Naphthalene	--	3,900	20,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Tetrachloroethene	--	570	2,700		4.89 U	4.47 U	4.3 U	3.84 U	4.22 U	4.56 U	4.71 U
Semivolatile Organics (µg/kg)											
2-Methylnaphthalene	--	31,000	410,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Acenaphthene	--	340,000	3,300,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Anthracene	--	1,700,000	17,000,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Benzo (g,h,i) perylene	--	--	--		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Benzo(a)anthracene	--	150	2,100		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Benzo(a)pyrene	--	15	210		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Benzo(b)fluoranthene	--	150	2,100		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Benzo(k)fluoranthene	--	1,500	21,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
bis(2-Ethylhexyl)phthalate	--	35,000	120,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Carbazole	--	--	--		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Chrysene	--	15,000	210,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Dibenzo (a,h) anthracene	--	15	210		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Dibenzofuran	--	--	--		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Fluoranthene	--	230,000	2,200,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Fluorene	--	230,000	2,200,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Indeno(1,2,3-cd)pyrene	--	150	2,100		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Pentachlorophenol	--	3,000	9,000		1020 U	923 U	880 U	1780 U	1770 U	918 U	913 U
Phenanthrene	--	--	--		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Pyrene	--	170,000	1,700,000		204 U	185 U	176 U	356 U	353 U	184 U	183 U
Metals (mg/kg)											
Arsenic	8.64	0.39	1.6		NA	NA	NA	NA	NA	NA	NA
Barium	360	1,500	19,000		NA	NA	NA	NA	NA	NA	NA
Chromium	46	280	1,400		NA	NA	NA	NA	NA	NA	NA
Lead	16.5	400	800		NA	NA	NA	NA	NA	NA	NA
Mercury	0.14	2.3	31		NA	NA	NA	NA	NA	NA	NA
Selenium	0.465	39	510		NA	NA	NA	NA	NA	NA	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was below the reported sample quantitation limit. However, the reported value is approximate.
UL = Non-detect, biased low
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the facility background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	TCF-0141		TCF-0142	TCF-0143	TCF-0144	TCF-0145	TCF-0146	TCF-0201
				Sample ID	0141-SO01-050708	0141-SO02-050708	0142-SO01-050808	0143-SO01-050808	0144-SO01-050808	0145-SO01-050708	0146-SO01-050708	0201-SS-083109
				Sample Depth (ft)	0 - 1	4 - 6	0 - 1	0 - 2	0 - 0.5	0 - 1	0 - 2	0.5 - 2
				Sample Date	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008	5/7/2008	5/7/2008	8/31/2009
Volatile Organics (µg/kg)												
1,1-Dichloroethane	--	3,400	17,000		4.59 U	4.41 U	4.87 U	4.81 U	5.29 U	4.33 U	4.85 U	NA
1,1-Dichloroethene	--	25,000	110,000		4.59 U	4.41 U	4.87 U	4.81 U	5.29 U	4.33 U	4.85 U	NA
Naphthalene	--	3,900	20,000		186 U	369 U	189 U	952 UJ	207 U	186 U	194 U	NA
Tetrachloroethene	--	570	2,700		4.59 U	4.41 U	4.87 U	4.81 U	5.29 U	4.33 U	4.85 U	NA
Semivolatile Organics (µg/kg)												
2-Methylnaphthalene	--	31,000	410,000		186 U	369 U	189 U	952 UL	207 U	186 U	194 U	NA
Acenaphthene	--	340,000	3,300,000		186 U	**959**	189 U	952 UJ	207 U	186 U	194 U	NA
Anthracene	--	1,700,000	17,000,000		186 U	**2020**	189 U	952 UJ	207 U	186 U	194 U	NA
Benzo (g,h,i) perylene	--	--	--		186 U	**902**	189 U	952 UJ	207 U	186 U	194 U	NA
Benzo(a)anthracene	--	150	2,100		186 U	**3010**	189 U	952 UJ	207 U	186 U	194 U	NA
Benzo(a)pyrene	--	15	210		186 U	**2420**	189 U	952 UJ	207 U	186 U	194 U	NA
Benzo(b)fluoranthene	--	150	2,100		186 U	**2950**	189 U	952 UJ	207 U	186 U	194 U	NA
Benzo(k)fluoranthene	--	1,500	21,000		186 U	**1410**	189 U	952 UJ	207 U	186 U	194 U	NA
bis(2-Ethylhexyl)phthalate	--	35,000	120,000		186 U	369 U	189 U	952 UJ	207 U	186 U	194 U	NA
Carbazole	--	--	--		186 U	**974**	189 U	952 UJ	207 U	186 U	194 U	NA
Chrysene	--	15,000	210,000		186 U	**2720**	189 U	952 UJ	**208**	186 U	194 U	NA
Dibenzo (a,h) anthracene	--	15	210		186 U	**522**	189 U	952 UJ	207 U	186 U	194 U	NA
Dibenzofuran	--	--	--		186 U	**762**	189 U	952 UJ	207 U	186 U	194 U	NA
Fluoranthene	--	230,000	2,200,000		186 U	**6780**	189 U	**1260 J**	207 U	186 U	194 U	NA
Fluorene	--	230,000	2,200,000		186 U	**1180**	189 U	952 UJ	207 U	186 U	194 U	NA
Indeno(1,2,3-cd)pyrene	--	150	2,100		186 U	**927**	189 U	952 UJ	207 U	186 U	194 U	NA
Pentachlorophenol	--	3,000	9,000		929 U	1850 U	946 U	**R**	1030 U	928 U	969 U	NA
Phenanthrene	--	--	--		186 U	**6930**	189 U	**1170 J**	207 U	186 U	194 U	NA
Pyrene	--	170,000	1,700,000		186 U	**5050**	189 U	**1360 J**	207 U	186 U	194 U	NA
Metals (mg/kg)												
Arsenic	8.64	0.39	1.6		NA	NA	NA	NA	NA	NA	NA	NA
Barium	360	1,500	19,000		NA	NA	NA	NA	NA	NA	NA	NA
Chromium	46	280	1,400		NA	NA	NA	NA	NA	NA	NA	NA
Lead	16.5	400	800		NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.14	2.3	31		NA	NA	NA	NA	NA	NA	NA	**0.665**
Selenium	0.465	39	510		NA	NA	NA	NA	NA	NA	NA	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
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UL = Non-detect, biased low
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the facility background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

Analyte	Facility Background Concentration	Adjusted Residential Soil RSL[1]	Adjusted Industrial Soil RSL[1]	Location	TCF-0202	TCF-0203	TCF-0204	TCF-0205	TCF-0207	TCF-0208	TCF-TestPit5	
				Sample ID	0202-SS-083109	0203-SS-083109	0204-SS-083109	0205-SS-083109	0207-SS-083109	0208-SS-083109	TestPit 5-WS-110409	TestPit 5-SO-110409
				Sample Depth (ft)	0.5 - 2	0.5 - 2	0.5 - 2	0 - 2	0 - 2	0 - 2	4 - 4	6 - 6
				Sample Date	8/31/2009	8/31/2009	8/31/2009	8/31/2009	8/31/2009	8/31/2009	11/4/2009	11/4/2009
Volatile Organics (µg/kg)												
1,1-Dichloroethane	--	3,400	17,000		NA	NA	NA	NA	NA	NA	5.85 U	4.82 U
1,1-Dichloroethene	--	25,000	110,000		NA	NA	NA	NA	NA	NA	5.85 U	4.82 U
Naphthalene	--	3,900	20,000		NA	NA	NA	NA	NA	NA	**334**	215 U
Tetrachloroethene	--	570	2,700		NA	NA	NA	NA	NA	NA	5.85 U	4.82 U
Semivolatile Organics (µg/kg)												
2-Methylnaphthalene	--	31,000	410,000		NA	NA	NA	NA	NA	NA	**412**	215 U
Acenaphthene	--	340,000	3,300,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Anthracene	--	1,700,000	17,000,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Benzo (g,h,i) perylene	--	--	--		NA	NA	NA	NA	NA	NA	202 U	215 U
Benzo(a)anthracene	--	150	2,100		NA	NA	NA	NA	NA	NA	202 U	215 U
Benzo(a)pyrene	--	15	210		NA	NA	NA	NA	NA	NA	202 U	215 U
Benzo(b)fluoranthene	--	150	2,100		NA	NA	NA	NA	NA	NA	202 U	215 U
Benzo(k)fluoranthene	--	1,500	21,000		NA	NA	NA	NA	NA	NA	202 U	215 U
bis(2-Ethylhexyl)phthalate	--	35,000	120,000		NA	NA	NA	NA	NA	NA	202 UL	215 UL
Carbazole	--	--	--		NA	NA	NA	NA	NA	NA	202 U	215 U
Chrysene	--	15,000	210,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Dibenzo (a,h) anthracene	--	15	210		NA	NA	NA	NA	NA	NA	202 U	215 U
Dibenzofuran	--	--	--		NA	NA	NA	NA	NA	NA	202 U	215 U
Fluoranthene	--	230,000	2,200,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Fluorene	--	230,000	2,200,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Indeno(1,2,3-cd)pyrene	--	150	2,100		NA	NA	NA	NA	NA	NA	202 U	215 U
Pentachlorophenol	--	3,000	9,000		NA	NA	NA	NA	NA	NA	1010 U	1080 U
Phenanthrene	--	--	--		NA	NA	NA	NA	NA	NA	202 U	215 U
Pyrene	--	170,000	1,700,000		NA	NA	NA	NA	NA	NA	202 U	215 U
Metals (mg/kg)												
Arsenic	8.64	0.39	1.6		NA	NA	NA	**4.92**	**2.9**	**3.64**	NA	**2.91**
Barium	360	1,500	19,000		NA	NA	NA	NA	NA	NA	NA	**66.9**
Chromium	46	280	1,400		NA	NA	NA	NA	NA	NA	NA	**9.35**
Lead	16.5	400	800		NA	NA	NA	NA	NA	NA	NA	**16.2**
Mercury	0.14	2.3	31		0.241 U	0.255 U	**0.28**	NA	NA	NA	NA	0.293 U
Selenium	0.465	39	510		NA	NA	NA	NA	NA	NA	NA	**0.281**

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
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UL = Non-detect, biased low
mg/kg = Milligrams per Kilogram
µg/kg = Micrograms per Kilogram
Bold indicates the analyte was detected
Shading indicates the result exceeds the adjusted residential soil RSL
Bold Box indicates the result exceeds the adjusted industrial soil RSL
Underlined indicates the result exceeds the facility background concentration

TABLE 4
Divestiture Investigations Detected Soil and Waste Results
UCC Technology Park
South Charleston, West Virginia

			Location	TCF-TestPit6		TCF-TestPit8			WVU-SS04	
			Sample ID	TestPit 6-SO-110409	TestPit 6-WS-110409	TestPit 8-WS-110409	TestPit 8-SO-110409	SS4-SS-083109	SS4-SO-083109	SS4-SO-083109-FD
	Facility		Sample Depth (ft)	10 - 12	5 - 8	2 - 4	6 - 6	0 - 2	2 - 4	2 - 4
	Background		Sample Date	11/4/2009	11/4/2009	11/4/2009	11/4/2009	8/31/2009	8/31/2009	8/31/2009
Analyte	**Concentration**	**Adjusted Residential Soil RSL[1]**	**Adjusted Industrial Soil RSL[1]**							
Volatile Organics (µg/kg)										
1,1-Dichloroethane	--	3,400	17,000	4.94 U	6.95 U	6.11 U	4.62 U	NA	NA	NA
1,1-Dichloroethene	--	25,000	110,000	4.94 U	6.95 U	6.11 U	4.62 U	NA	NA	NA
Naphthalene	--	3,900	20,000	226 U	**1010**	426 U	196 U	NA	NA	NA
Tetrachloroethene	--	570	2,700	4.94 U	6.95 U	6.11 U	4.62 U	NA	NA	NA
Semivolatile Organics (µg/kg)										
2-Methylnaphthalene	--	31,000	410,000	226 U	**1260**	426 U	196 U	NA	NA	NA
Acenaphthene	--	340,000	3,300,000	226 U	482 U	426 U	196 U	NA	NA	NA
Anthracene	--	1,700,000	17,000,000	226 U	482 U	426 U	196 U	NA	NA	NA
Benzo (g,h,i) perylene	--	--	--	226 U	482 U	426 U	196 U	NA	NA	NA
Benzo(a)anthracene	--	150	2,100	226 U	482 U	426 U	196 U	NA	NA	NA
Benzo(a)pyrene	--	15	210	226 U	482 U	426 U	196 U	NA	NA	NA
Benzo(b)fluoranthene	--	150	2,100	226 U	482 U	426 U	196 U	NA	NA	NA
Benzo(k)fluoranthene	--	1,500	21,000	226 U	482 U	426 U	196 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	--	35,000	120,000	226 UL	482 UL	426 UL	196 UL	NA	NA	NA
Carbazole	--	--	--	226 U	482 U	426 U	196 U	NA	NA	NA
Chrysene	--	15,000	210,000	226 U	482 U	426 U	196 U	NA	NA	NA
Dibenzo (a,h) anthracene	--	15	210	226 U	482 U	426 U	196 U	NA	NA	NA
Dibenzofuran	--	--	--	226 U	482 U	426 U	196 U	NA	NA	NA
Fluoranthene	--	230,000	2,200,000	226 U	482 U	426 U	196 U	NA	NA	NA
Fluorene	--	230,000	2,200,000	226 U	482 U	426 U	196 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	--	150	2,100	226 U	482 U	426 U	196 U	NA	NA	NA
Pentachlorophenol	--	3,000	9,000	1130 U	2410 U	2130 U	978 U	NA	NA	NA
Phenanthrene	--	--	--	226 U	482 U	426 U	196 U	NA	NA	NA
Pyrene	--	170,000	1,700,000	226 U	482 U	426 U	196 U	NA	NA	NA
Metals (mg/kg)										
Arsenic	8.64	0.39	1.6	**12.8**	NA	NA	**10.7**	**5.06**	**4.58**	**4.34**
Barium	360	1,500	19,000	**124**	NA	NA	**37.6**	NA	NA	NA
Chromium	46	280	1,400	**17.2**	NA	NA	**21 J**	NA	NA	NA
Lead	16.5	400	800	**20.6**	NA	NA	**15.6 J**	NA	NA	NA
Mercury	0.14	2.3	31	0.289 U	NA	NA	0.269 U	NA	NA	NA
Selenium	0.465	39	510	**0.536**	NA	NA	**0.605**	NA	NA	NA

Notes:

[1] The noncarcinogenic regional screening levels (RSLs) were divided by 10 to adjust for exposure to multiple constituents.
NA = Not analyzed
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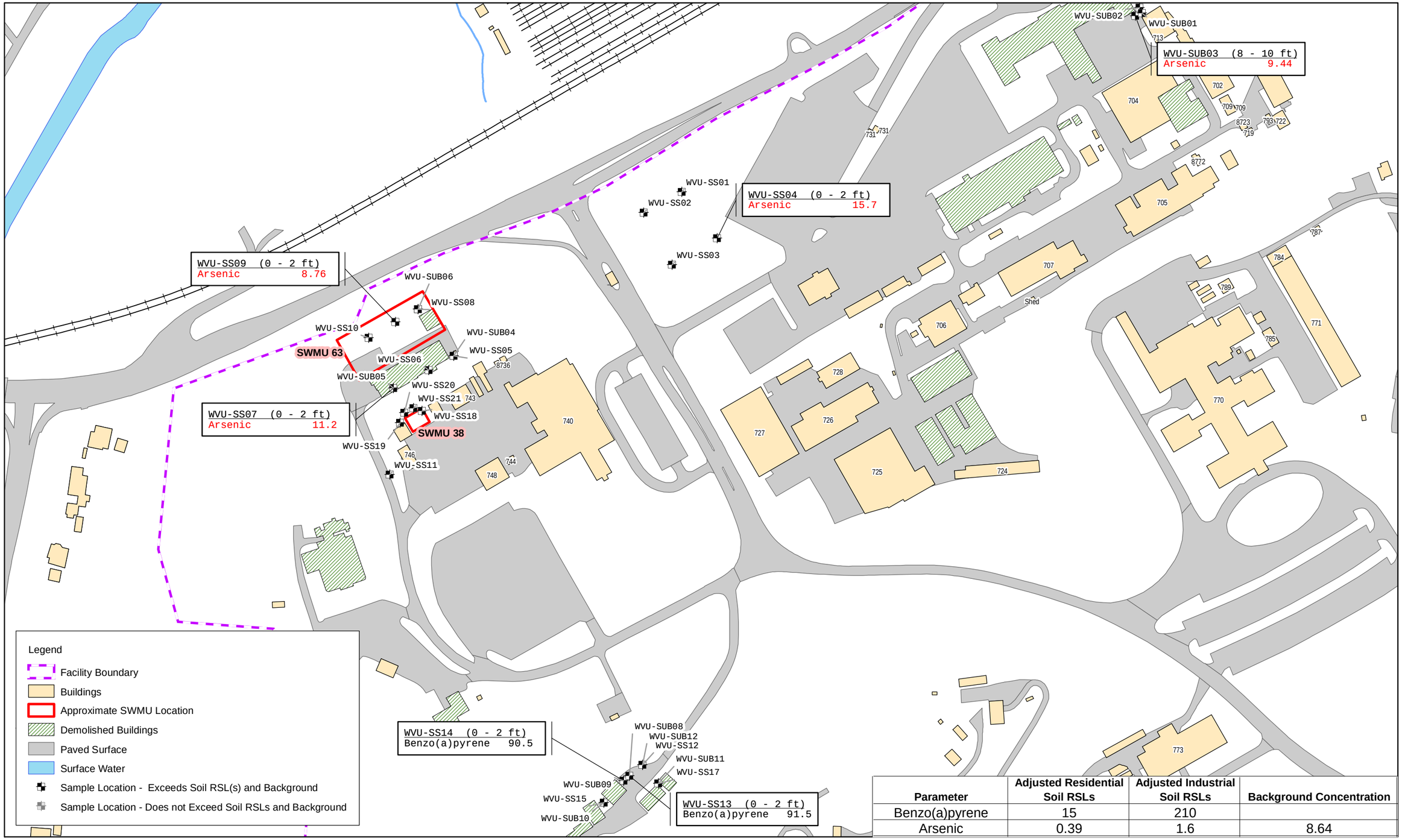
Figures



Parameter	Adjusted Residential Soil RSLs	Adjusted Industrial Soil RSLs	Background Concentration
Benzo(a)pyrene	15	210	
Arsenic	0.39	1.6	8.64

N

0 200 400
Feet

Notes:
1. Results are in ug/kg with the exception of arsenic which is in mg/kg
2. Black text = concentration exceeds the Adjusted Residential Soil RSL
3. Red text = concentration exceeds Adjusted Industrial Soil RSLs and Background

Figure 1
WVU Phase II ESA Soil Sample Locations and Parameter Exceedances
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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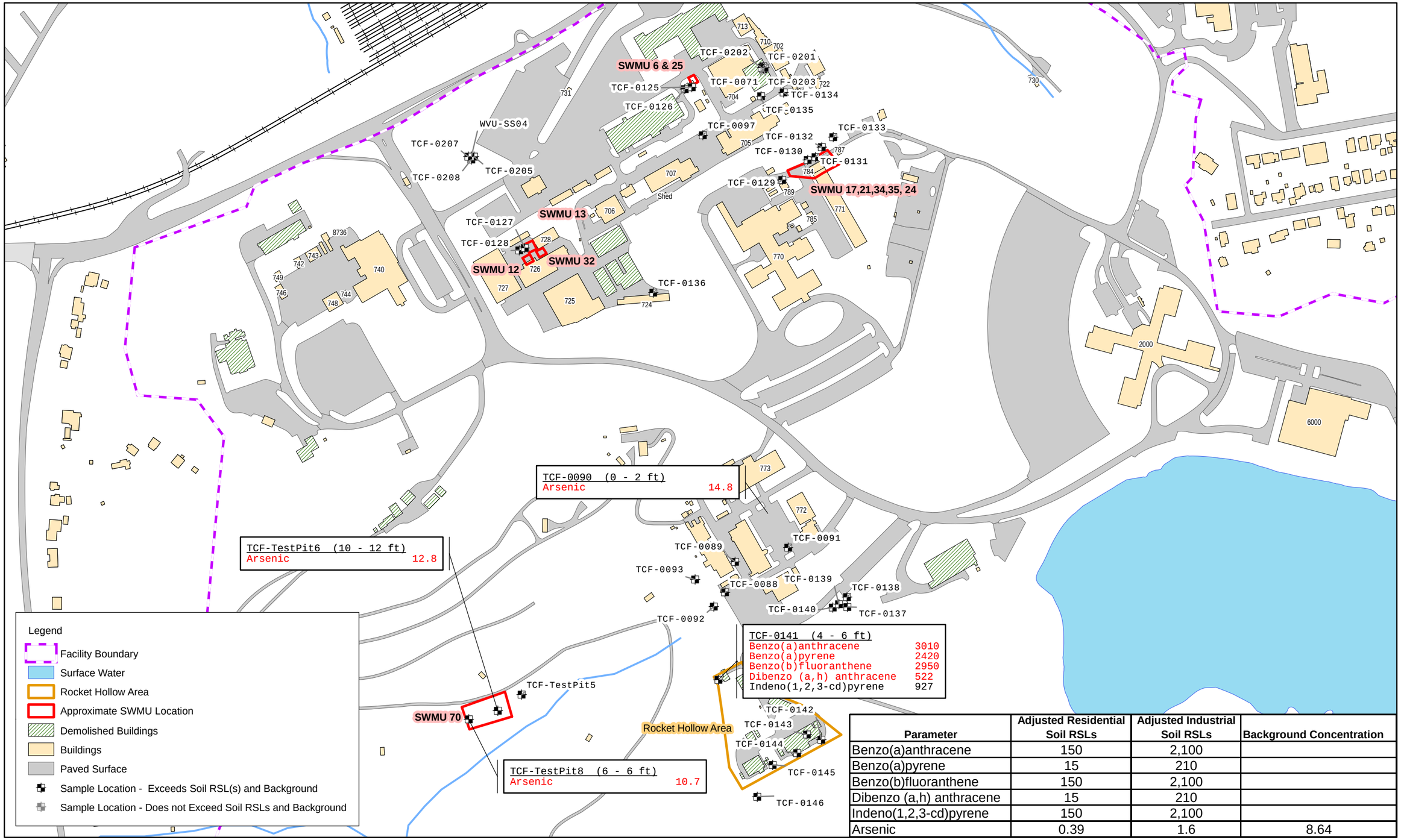

Parameter	Adjusted Residential Soil RSLs	Adjusted Industrial Soil RSLs	Background Concentration
Benzo(a)anthracene	150	2,100	
Benzo(a)pyrene	15	210	
Benzo(b)fluoranthene	150	2,100	
Dibenzo (a,h) anthracene	15	210	
Indeno(1,2,3-cd)pyrene	150	2,100	
Arsenic	0.39	1.6	8.64

Notes:
1. Results are in ug/kg with the exception of arsenic which is in mg/kg
2. Black text = concentration exceeds the Adjusted Residential Soil RSL
3. Red text = concentration exceeds Adjusted Industrial Soil RSLs and Background

Figure 2
Divestiture Investigation Soil Sample Locations
and Soil Parameter Exceedances
UCC Technology Park
South Charleston, West Virginia

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Attachment 1

Laboratory Data Packages

156 Starlite Drive, Marietta, OH 45750 • TEL 740-373-4071 • FAX 740-373-4835 • http://www.kemron.com

Laboratory Report Number: L0709522

Please find enclosed the analytical results for the samples you submitted to KEMRON Environmental Services.

Review and compilation of your report was completed by KEMRON's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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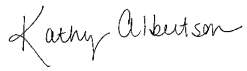
This report was reviewed on October 12, 2007.



KATHY ALBERTSON - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the NELAP standards and other applicable contract terms and conditions. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of KEMRON Environmental Services.

This report was certified on October 12, 2007.

David Vandenberg - Vice President

FL DOH NELAP ID: E8755
This report contains a total of 367 pages.

Protecting Our Environmental Future

KEMRON REPORT L0709522
PREPARED FOR CH2MHILL, Inc
WORK ID: DOW TECH CENTER

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1.0 Introduction

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

KEMRON Login No.: L0709522

CHAIN OF CUSTODY: The chain of custody number was 75668.

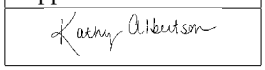
SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 2 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L0709522-01	0076-SO-092007
L0709522-02	0076-SO-092007/FD
L0709522-03	0076-GW-092007
L0709522-04	0077-SO-092007
L0709522-05	0078-SO-092007
L0709522-06	0079-SO-092007
L0709522-07	0080-SO-092007
L0709522-08	0081-SO-092007
L0709522-09	TRIP BLANK

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.

Approved: 26-SEP-07



2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
GC/MS VOLATILE ORGANICS

KEMRON Login No.: L0709522

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate exceeded the upper control limit in the water alternate source analyzed 09/12/07 on HPMS-6. All other acceptance criteria were met.

Continuing Calibration and Tune: Chloromethane, 1,4-dioxane, bromomethane, and vinyl acetate were below the lower control limits in the water CCV analyzed 10/01/07 on HPMS-6. Bromoform, 1,4-dioxane, and dibromochloromethane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 09/21/07 on HPMS-9. Vinyl acetate was below the lower control limit in the soil CCV analyzed 09/25/07 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: 1,4-Dioxane was below the lower control limit in the water LCS analyzed 10/01/07 on HPMS-6. All other acceptance criteria were met.

Matrix Spike: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Kemron recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

KEMRON laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

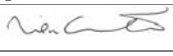
Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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: MES

Approved: 10-OCT-07



LABORATORY REPORT

L0709522

10/11/07 11:01

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG 707/706/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0076-SO-092007	L0709522-01	8260B	1	21-SEP-07
0076-SO-092007/FD	L0709522-02	8260B	1	21-SEP-07
0076-GW-092007	L0709522-03	8260B	1	21-SEP-07
0077-SO-092007	L0709522-04	8260B	1	21-SEP-07
0078-SO-092007	L0709522-05	8260B	1	21-SEP-07
0079-SO-092007	L0709522-06	8260B	1	21-SEP-07
0080-SO-092007	L0709522-07	8260B	1	21-SEP-07
0081-SO-092007	L0709522-08	8260B	1	21-SEP-07
TRIP BLANK	L0709522-09	8260B	1	21-SEP-07

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 17:04**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 17:04**
File ID: **9M56915**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.56	0.456
1,1,2,2-Tetrachloroethane	79-34-5		U	4.56	0.456
1,1,2-Trichloroethane	79-00-5		U	4.56	0.456
1,1-Dichloroethane	75-34-3		U	4.56	0.912
1,1-Dichloroethene	75-35-4		U	4.56	0.456
1,2,4-Trichlorobenzene	120-82-1		U	4.56	0.456
1,2-Dichlorobenzene	95-50-1		U	4.56	0.456
1,2-Dichloroethane	107-06-2		U	4.56	0.456
1,2-Dichloropropane	78-87-5		U	4.56	0.456
1,3-Dichlorobenzene	541-73-1		U	4.56	0.456
1,4-Dichlorobenzene	106-46-7		U	4.56	0.456
1,4-Dioxane	123-91-1		U	1550	45.6
2-Butanone	78-93-3		U	22.8	2.28
2-Hexanone	591-78-6		U	9.12	2.28
4-Methyl-2-pentanone	108-10-1		U	9.12	2.28
Acetone	67-64-1		U	91.2	4.56
Acrylonitrile	107-13-1		U	91.2	2.28
Benzene	71-43-2		U	4.56	0.456
Bromodichloromethane	75-27-4		U	4.56	0.456
Bromoform	75-25-2		U	4.56	0.456
Bromomethane	74-83-9		U	9.12	0.912
Carbon disulfide	75-15-0		U	4.56	0.456
Carbon tetrachloride	56-23-5		U	4.56	0.456
Chlorobenzene	108-90-7		U	4.56	0.456
Dibromochloromethane	124-48-1		U	4.56	0.456
Chloroethane	75-00-3		U	9.12	0.912
Chloroform	67-66-3		U	4.56	0.456
Chloromethane	74-87-3		U	9.12	1.82
cis-1,2-Dichloroethene	156-59-2		U	4.56	0.456
cis-1,3-Dichloropropene	10061-01-5		U	4.56	0.456
Ethylbenzene	100-41-4		U	4.56	0.456
Methylene chloride	75-09-2		U	4.56	0.912
Methyltert-butyl ether	1634-04-4		U	9.12	0.456
Styrene	100-42-5		U	4.56	0.456
Tetrachloroethene	127-18-4		U	4.56	0.456
Toluene	108-88-3		U	4.56	0.456
trans-1,2-Dichloroethene	156-60-5		U	4.56	0.456
trans-1,3-Dichloropropene	10061-02-6		U	4.56	0.456
Trichloroethene	79-01-6		U	4.56	0.456
Vinyl acetate	108-05-4		U	9.12	0.912
Vinyl chloride	75-01-4		U	9.12	0.912
Xylenes	1330-20-7		U	9.12	0.456

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	101	70	121	
4-Bromofluorobenzene	108	59	113	
Dibromofluoromethane	112	65	135	
Toluene-d8	108	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 17:34**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 17:34**
File ID: **9M56916**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.34	0.534
1,1,2,2-Tetrachloroethane	79-34-5		U	5.34	0.534
1,1,2-Trichloroethane	79-00-5		U	5.34	0.534
1,1-Dichloroethane	75-34-3		U	5.34	1.07
1,1-Dichloroethene	75-35-4		U	5.34	0.534
1,2,4-Trichlorobenzene	120-82-1		U	5.34	0.534
1,2-Dichlorobenzene	95-50-1		U	5.34	0.534
1,2-Dichloroethane	107-06-2		U	5.34	0.534
1,2-Dichloropropane	78-87-5		U	5.34	0.534
1,3-Dichlorobenzene	541-73-1		U	5.34	0.534
1,4-Dichlorobenzene	106-46-7		U	5.34	0.534
1,4-Dioxane	123-91-1		U	1820	53.4
2-Butanone	78-93-3		U	26.7	2.67
2-Hexanone	591-78-6		U	10.7	2.67
4-Methyl-2-pentanone	108-10-1		U	10.7	2.67
Acetone	67-64-1		U	107	5.34
Acrylonitrile	107-13-1		U	107	2.67
Benzene	71-43-2		U	5.34	0.534
Bromodichloromethane	75-27-4		U	5.34	0.534
Bromoform	75-25-2		U	5.34	0.534
Bromomethane	74-83-9		U	10.7	1.07
Carbon disulfide	75-15-0		U	5.34	0.534
Carbon tetrachloride	56-23-5		U	5.34	0.534
Chlorobenzene	108-90-7		U	5.34	0.534
Dibromochloromethane	124-48-1		U	5.34	0.534
Chloroethane	75-00-3		U	10.7	1.07
Chloroform	67-66-3		U	5.34	0.534
Chloromethane	74-87-3		U	10.7	2.14
cis-1,2-Dichloroethene	156-59-2		U	5.34	0.534
cis-1,3-Dichloropropene	10061-01-5		U	5.34	0.534
Ethylbenzene	100-41-4		U	5.34	0.534
Methylene chloride	75-09-2		U	5.34	1.07
Methyltert-butyl ether	1634-04-4		U	10.7	0.534
Styrene	100-42-5		U	5.34	0.534
Tetrachloroethene	127-18-4		U	5.34	0.534
Toluene	108-88-3		U	5.34	0.534
trans-1,2-Dichloroethene	156-60-5		U	5.34	0.534
trans-1,3-Dichloropropene	10061-02-6		U	5.34	0.534
Trichloroethene	79-01-6		U	5.34	0.534
Vinyl acetate	108-05-4		U	10.7	1.07
Vinyl chloride	75-01-4		U	10.7	1.07
Xylenes	1330-20-7		U	10.7	0.534

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	100	70	121	
4-Bromofluorobenzene	110	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	111	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-03**
Client ID: **0076-GW-092007**
Matrix: **Water**
Workgroup Number: **WG251484**
Collect Date: **09/20/2007 12:00**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **10/01/2007 11:14**
Cal Date: **09/12/2007 17:13**
Run Date: **10/01/2007 11:14**
File ID: **6M69468**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3	4.34		1.00	0.125
1,1-Dichloroethene	75-35-4	4.73		1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2	3.40		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	5.81		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	94.7	76	114	
4-Bromofluorobenzene	103	86	115	
Dibromofluoromethane	95.4	85	115	
Toluene-d8	98.4	88	110	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 18:05**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 18:05**
File ID: **9M56917**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.93	0.493
1,1,2,2-Tetrachloroethane	79-34-5		U	4.93	0.493
1,1,2-Trichloroethane	79-00-5		U	4.93	0.493
1,1-Dichloroethane	75-34-3		U	4.93	0.986
1,1-Dichloroethene	75-35-4		U	4.93	0.493
1,2,4-Trichlorobenzene	120-82-1		U	4.93	0.493
1,2-Dichlorobenzene	95-50-1		U	4.93	0.493
1,2-Dichloroethane	107-06-2		U	4.93	0.493
1,2-Dichloropropane	78-87-5		U	4.93	0.493
1,3-Dichlorobenzene	541-73-1		U	4.93	0.493
1,4-Dichlorobenzene	106-46-7		U	4.93	0.493
1,4-Dioxane	123-91-1		U	1680	49.3
2-Butanone	78-93-3		U	24.7	2.47
2-Hexanone	591-78-6		U	9.86	2.47
4-Methyl-2-pentanone	108-10-1		U	9.86	2.47
Acetone	67-64-1		U	98.6	4.93
Acrylonitrile	107-13-1		U	98.6	2.47
Benzene	71-43-2		U	4.93	0.493
Bromodichloromethane	75-27-4		U	4.93	0.493
Bromoform	75-25-2		U	4.93	0.493
Bromomethane	74-83-9		U	9.86	0.986
Carbon disulfide	75-15-0		U	4.93	0.493
Carbon tetrachloride	56-23-5		U	4.93	0.493
Chlorobenzene	108-90-7		U	4.93	0.493
Dibromochloromethane	124-48-1		U	4.93	0.493
Chloroethane	75-00-3		U	9.86	0.986
Chloroform	67-66-3		U	4.93	0.493
Chloromethane	74-87-3		U	9.86	1.97
cis-1,2-Dichloroethene	156-59-2		U	4.93	0.493
cis-1,3-Dichloropropene	10061-01-5		U	4.93	0.493
Ethylbenzene	100-41-4		U	4.93	0.493
Methylene chloride	75-09-2		U	4.93	0.986
Methyltert-butyl ether	1634-04-4		U	9.86	0.493
Styrene	100-42-5		U	4.93	0.493
Tetrachloroethene	127-18-4		U	4.93	0.493
Toluene	108-88-3		U	4.93	0.493
trans-1,2-Dichloroethene	156-60-5		U	4.93	0.493
trans-1,3-Dichloropropene	10061-02-6		U	4.93	0.493
Trichloroethene	79-01-6		U	4.93	0.493
Vinyl acetate	108-05-4		U	9.86	0.986
Vinyl chloride	75-01-4		U	9.86	0.986
Xylenes	1330-20-7		U	9.86	0.493

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	103	70	121	
4-Bromofluorobenzene	104	59	113	
Dibromofluoromethane	113	65	135	
Toluene-d8	108	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 14:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 18:36**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 18:36**
File ID: **9M56918**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.35	0.435
1,1,2,2-Tetrachloroethane	79-34-5		U	4.35	0.435
1,1,2-Trichloroethane	79-00-5		U	4.35	0.435
1,1-Dichloroethane	75-34-3		U	4.35	0.869
1,1-Dichloroethene	75-35-4		U	4.35	0.435
1,2,4-Trichlorobenzene	120-82-1		U	4.35	0.435
1,2-Dichlorobenzene	95-50-1		U	4.35	0.435
1,2-Dichloroethane	107-06-2		U	4.35	0.435
1,2-Dichloropropane	78-87-5		U	4.35	0.435
1,3-Dichlorobenzene	541-73-1		U	4.35	0.435
1,4-Dichlorobenzene	106-46-7		U	4.35	0.435
1,4-Dioxane	123-91-1		U	1480	43.5
2-Butanone	78-93-3		U	21.7	2.17
2-Hexanone	591-78-6		U	8.69	2.17
4-Methyl-2-pentanone	108-10-1		U	8.69	2.17
Acetone	67-64-1		U	86.9	4.35
Acrylonitrile	107-13-1		U	86.9	2.17
Benzene	71-43-2		U	4.35	0.435
Bromodichloromethane	75-27-4		U	4.35	0.435
Bromoform	75-25-2		U	4.35	0.435
Bromomethane	74-83-9		U	8.69	0.869
Carbon disulfide	75-15-0		U	4.35	0.435
Carbon tetrachloride	56-23-5		U	4.35	0.435
Chlorobenzene	108-90-7		U	4.35	0.435
Dibromochloromethane	124-48-1		U	4.35	0.435
Chloroethane	75-00-3		U	8.69	0.869
Chloroform	67-66-3		U	4.35	0.435
Chloromethane	74-87-3		U	8.69	1.74
cis-1,2-Dichloroethene	156-59-2		U	4.35	0.435
cis-1,3-Dichloropropene	10061-01-5		U	4.35	0.435
Ethylbenzene	100-41-4		U	4.35	0.435
Methylene chloride	75-09-2		U	4.35	0.869
Methyltert-butyl ether	1634-04-4		U	8.69	0.435
Styrene	100-42-5		U	4.35	0.435
Tetrachloroethene	127-18-4		U	4.35	0.435
Toluene	108-88-3		U	4.35	0.435
trans-1,2-Dichloroethene	156-60-5		U	4.35	0.435
trans-1,3-Dichloropropene	10061-02-6		U	4.35	0.435
Trichloroethene	79-01-6		U	4.35	0.435
Vinyl acetate	108-05-4		U	8.69	0.869
Vinyl chloride	75-01-4		U	8.69	0.869
Xylenes	1330-20-7		U	8.69	0.435

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	102	70	121	
4-Bromofluorobenzene	101	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	105	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 19:07**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 19:07**
File ID: **9M56919**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.33	0.533
1,1,2,2-Tetrachloroethane	79-34-5		U	5.33	0.533
1,1,2-Trichloroethane	79-00-5		U	5.33	0.533
1,1-Dichloroethane	75-34-3		U	5.33	1.07
1,1-Dichloroethene	75-35-4		U	5.33	0.533
1,2,4-Trichlorobenzene	120-82-1		U	5.33	0.533
1,2-Dichlorobenzene	95-50-1		U	5.33	0.533
1,2-Dichloroethane	107-06-2		U	5.33	0.533
1,2-Dichloropropane	78-87-5		U	5.33	0.533
1,3-Dichlorobenzene	541-73-1		U	5.33	0.533
1,4-Dichlorobenzene	106-46-7		U	5.33	0.533
1,4-Dioxane	123-91-1		U	1810	53.3
2-Butanone	78-93-3		U	26.6	2.66
2-Hexanone	591-78-6		U	10.7	2.66
4-Methyl-2-pentanone	108-10-1		U	10.7	2.66
Acetone	67-64-1		U	107	5.33
Acrylonitrile	107-13-1		U	107	2.66
Benzene	71-43-2		U	5.33	0.533
Bromodichloromethane	75-27-4		U	5.33	0.533
Bromoform	75-25-2		U	5.33	0.533
Bromomethane	74-83-9		U	10.7	1.07
Carbon disulfide	75-15-0		U	5.33	0.533
Carbon tetrachloride	56-23-5		U	5.33	0.533
Chlorobenzene	108-90-7		U	5.33	0.533
Dibromochloromethane	124-48-1		U	5.33	0.533
Chloroethane	75-00-3		U	10.7	1.07
Chloroform	67-66-3		U	5.33	0.533
Chloromethane	74-87-3		U	10.7	2.13
cis-1,2-Dichloroethene	156-59-2		U	5.33	0.533
cis-1,3-Dichloropropene	10061-01-5		U	5.33	0.533
Ethylbenzene	100-41-4		U	5.33	0.533
Methylene chloride	75-09-2		U	5.33	1.07
Methyltert-butyl ether	1634-04-4		U	10.7	0.533
Styrene	100-42-5		U	5.33	0.533
Tetrachloroethene	127-18-4		U	5.33	0.533
Toluene	108-88-3		U	5.33	0.533
trans-1,2-Dichloroethene	156-60-5		U	5.33	0.533
trans-1,3-Dichloropropene	10061-02-6		U	5.33	0.533
Trichloroethene	79-01-6		U	5.33	0.533
Vinyl acetate	108-05-4		U	10.7	1.07
Vinyl chloride	75-01-4		U	10.7	1.07
Xylenes	1330-20-7		U	10.7	0.533

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	102	70	121	
4-Bromofluorobenzene	104	59	113	
Dibromofluoromethane	111	65	135	
Toluene-d8	107	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-07**
Client ID: **0080-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250915**
Collect Date: **09/20/2007 16:10**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/25/2007 12:01**
Cal Date: **08/14/2007 16:27**
Run Date: **09/25/2007 12:01**
File ID: **9M56966**
Percent Solid: **85.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.11	0.511
1,1,2,2-Tetrachloroethane	79-34-5		U	5.11	0.511
1,1,2-Trichloroethane	79-00-5		U	5.11	0.511
1,1-Dichloroethane	75-34-3		U	5.11	1.02
1,1-Dichloroethene	75-35-4		U	5.11	0.511
1,2,4-Trichlorobenzene	120-82-1		U	5.11	0.511
1,2-Dichlorobenzene	95-50-1		U	5.11	0.511
1,2-Dichloroethane	107-06-2		U	5.11	0.511
1,2-Dichloropropane	78-87-5		U	5.11	0.511
1,3-Dichlorobenzene	541-73-1		U	5.11	0.511
1,4-Dichlorobenzene	106-46-7		U	5.11	0.511
1,4-Dioxane	123-91-1		U	1740	51.1
2-Butanone	78-93-3		U	25.5	2.55
2-Hexanone	591-78-6		U	10.2	2.55
4-Methyl-2-pentanone	108-10-1		U	10.2	2.55
Acetone	67-64-1		U	102	5.11
Acrylonitrile	107-13-1		U	102	2.55
Benzene	71-43-2		U	5.11	0.511
Bromodichloromethane	75-27-4		U	5.11	0.511
Bromoform	75-25-2		U	5.11	0.511
Bromomethane	74-83-9		U	10.2	1.02
Carbon disulfide	75-15-0		U	5.11	0.511
Carbon tetrachloride	56-23-5		U	5.11	0.511
Chlorobenzene	108-90-7		U	5.11	0.511
Dibromochloromethane	124-48-1		U	5.11	0.511
Chloroethane	75-00-3		U	10.2	1.02
Chloroform	67-66-3		U	5.11	0.511
Chloromethane	74-87-3		U	10.2	2.04
cis-1,2-Dichloroethene	156-59-2		U	5.11	0.511
cis-1,3-Dichloropropene	10061-01-5		U	5.11	0.511
Ethylbenzene	100-41-4		U	5.11	0.511
Methylene chloride	75-09-2		U	5.11	1.02
Methyltert-butyl ether	1634-04-4		U	10.2	0.511
Styrene	100-42-5		U	5.11	0.511
Tetrachloroethene	127-18-4		U	5.11	0.511
Toluene	108-88-3		U	5.11	0.511
trans-1,2-Dichloroethene	156-60-5		U	5.11	0.511
trans-1,3-Dichloropropene	10061-02-6		U	5.11	0.511
Trichloroethene	79-01-6		U	5.11	0.511
Vinyl acetate	108-05-4		U	10.2	1.02
Vinyl chloride	75-01-4		U	10.2	1.02
Xylenes	1330-20-7		U	10.2	0.511

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.9	70	121	
4-Bromofluorobenzene	92.2	59	113	
Dibromofluoromethane	103	65	135	
Toluene-d8	96.1	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG250650**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/21/2007 20:09**
Cal Date: **08/14/2007 16:27**
Run Date: **09/21/2007 20:09**
File ID: **9M56921**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.77	0.477
1,1,2,2-Tetrachloroethane	79-34-5		U	4.77	0.477
1,1,2-Trichloroethane	79-00-5		U	4.77	0.477
1,1-Dichloroethane	75-34-3		U	4.77	0.954
1,1-Dichloroethene	75-35-4		U	4.77	0.477
1,2,4-Trichlorobenzene	120-82-1		U	4.77	0.477
1,2-Dichlorobenzene	95-50-1		U	4.77	0.477
1,2-Dichloroethane	107-06-2		U	4.77	0.477
1,2-Dichloropropane	78-87-5		U	4.77	0.477
1,3-Dichlorobenzene	541-73-1		U	4.77	0.477
1,4-Dichlorobenzene	106-46-7		U	4.77	0.477
1,4-Dioxane	123-91-1		U	1620	47.7
2-Butanone	78-93-3		U	23.8	2.38
2-Hexanone	591-78-6		U	9.54	2.38
4-Methyl-2-pentanone	108-10-1		U	9.54	2.38
Acetone	67-64-1		U	95.4	4.77
Acrylonitrile	107-13-1		U	95.4	2.38
Benzene	71-43-2		U	4.77	0.477
Bromodichloromethane	75-27-4		U	4.77	0.477
Bromoform	75-25-2		U	4.77	0.477
Bromomethane	74-83-9		U	9.54	0.954
Carbon disulfide	75-15-0		U	4.77	0.477
Carbon tetrachloride	56-23-5		U	4.77	0.477
Chlorobenzene	108-90-7		U	4.77	0.477
Dibromochloromethane	124-48-1		U	4.77	0.477
Chloroethane	75-00-3		U	9.54	0.954
Chloroform	67-66-3		U	4.77	0.477
Chloromethane	74-87-3		U	9.54	1.91
cis-1,2-Dichloroethene	156-59-2		U	4.77	0.477
cis-1,3-Dichloropropene	10061-01-5		U	4.77	0.477
Ethylbenzene	100-41-4		U	4.77	0.477
Methylene chloride	75-09-2		U	4.77	0.954
Methyltert-butyl ether	1634-04-4		U	9.54	0.477
Styrene	100-42-5		U	4.77	0.477
Tetrachloroethene	127-18-4		U	4.77	0.477
Toluene	108-88-3		U	4.77	0.477
trans-1,2-Dichloroethene	156-60-5		U	4.77	0.477
trans-1,3-Dichloropropene	10061-02-6		U	4.77	0.477
Trichloroethene	79-01-6		U	4.77	0.477
Vinyl acetate	108-05-4		U	9.54	0.954
Vinyl chloride	75-01-4		U	9.54	0.954
Xylenes	1330-20-7		U	9.54	0.477

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	111	70	121	
4-Bromofluorobenzene	103	59	113	
Dibromofluoromethane	114	65	135	
Toluene-d8	105	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-09**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG251484**
Collect Date: **09/20/2007 00:01**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **10/01/2007 10:42**
Cal Date: **09/12/2007 17:13**
Run Date: **10/01/2007 10:42**
File ID: **6M69467**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	92.4	76	114	
4-Bromofluorobenzene	102	86	115	
Dibromofluoromethane	93.9	85	115	
Toluene-d8	98.9	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**
Dry weight correction:	
Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: KJW Date Prepared/Preserved: 9/21/07 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0709457-01	A	9/19/07	NA	NA	30.71	36.69	5.98	NA	NA	5-pres. in field	
-02					30.44	37.45	7.01				
-03					30.46	35.75	5.29				
-04					30.63	36.84	6.21				
-05					30.26	31.93	1.67				
-06					30.55	37.17	6.62				
-07					30.75	35.26	4.51				
L0709457-01	B	9/19/07	NA	NA	30.57	36.72	6.15	NA	NA	5-pres. in field	
-02					30.48	36.94	6.46				
-03					30.80	35.93	5.13				
-04					30.48	36.93	6.45				
-05					30.49	36.56	6.07				
-06					30.79	36.82	6.03				
-07					30.40	35.80	5.40				
L0709520-04	A	9/20/07	15:10	15:00	NA	NA	5.23	5	-	5	
	B						4.74	5	-		
	C						4.61	-	10		
L0709522-01	A	9/20/07	11:50	15:05	NA	NA	5.80	5	-	5	
	B						5.60	5	-		
	C						5.45	-	10		
-02	A		11:50	15:08			5.33	5	-		
	B						5.84	5	-		
	C						5.72	-	10		
-04	A		13:55	15:10			5.99	5	-		

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing

Methanol (Manufacturer, Lot #) B&J CT981

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

VOA Preparation/Preservation and Extraction Log

Analyst: KJW Date Prepared/Preserved: 9/21/07 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0709522-04	B	9/20/07	13:55	15:10	NA	NA	6.65	5	–	5	
↓	C	↓	↓	↓	↓	↓	6.64	–	10	↓	
-05	A		14:35	15:12			6.65	5	–		
↓	B		↓	↓			6.67	5	–		
↓	C		↓	↓			6.74	–	10		
-06	A		15:10	15:16			5.70	5	–		
↓	B		↓	↓			5.96	5	–		
↓	C		↓	↓			5.53	–	10		
-07	A		16:10	15:20			6.35	5	–		
↓	B		↓	↓			5.72	5	–		
↓ ↓	C	↓	↓	↓	↓	↓	6.37	–	10	↓	
Blank	A	NA	NA	NA	NA	NA	5.0	5	–	5	
↓	B	↓	↓	↓	↓	↓	↓	5	–	↓	
↓	C	↓	↓	↓	↓	↓	↓	–	10		
L0709522-08	A	9/20/07	16:20	15:23	NA	NA	6.00	5	–		
↓	B	↓	↓	↓	↓	↓	6.27	5	–		
↓	C	↓	↓	↓	↓	↓	6.19	–	10	↓	

MKZ 9/24/07

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing

Methanol (Manufacturer, Lot #) B & J CT981

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

VOA Preparation/Preservation and Extraction Log

Analyst: KJW Date Prepared/Preserved: 9/21/07 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0709522-04	B	9/20/07	13:55	15:10	NA	NA	6.65	5	–	5	
↓	C		↓	↓			6.64	–	10		
-05	A		14:35	15:12			6.65	5	–		
↓	B		↓	↓			6.67	5	–		
↓	C		↓	↓			6.74	–	10		
-06	A		15:10	15:16			5.70	5	–		
↓	B		↓	↓			5.96	5	–		
↓	C		↓	↓			5.53	–	10		
-07	A		16:10	15:20			6.35	5	–		
↓	B		↓	↓			5.72	5	–		
↓ ↓	C	↓	↓	↓	↓	↓	6.37	–	10	↓	
Blank	A	NA	NA	NA	NA	NA	5.0	5	–	5	
↓	B	↓	↓	↓	↓	↓	↓	5	–		
↓	C	↓	↓	↓	↓	↓	↓	–	10		
L0709522-08	A	9/20/07	16:20	15:23	NA	NA	6.00	5	–		
↓	B	↓	↓	↓	↓	↓	6.27	5	–		
↓	C	↓	↓	↓	↓	↓	6.19	–	10	↓	

MW 9/24/07

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing

Methanol (Manufacturer, Lot #) B & J CT981

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 081407
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 20451

Internal Standard: STD20987 Surrogate Standard: STD20761
CCV: STD21325 LCS: STD21327 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG247666,WG247667

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M56000	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 08:33
2	9M56001	WG247666-02 50UG/L STD 8260	NA	7	1	STD21079	08/14/07 09:03
3	9M56002	WG247666-02 50UG/L STD 8260	NA	7	1	STD21079	08/14/07 09:37
4	9M56003	SYSTEM BLANK	NA	7	1		08/14/07 10:09
33	9M56004	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 10:37
34	9M56005	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 10:49
35	9M56006	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 11:05
5	9M56007	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 11:19
6	9M56008	WG247666-02 0.5ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 11:42
7	9M56009	WG247666-03 1 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 12:13
8	9M56010	WG247666-04 2 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 12:49
9	9M56011	WG247666-05 5 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 13:19
10	9M56012	WG247666-06 10 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 13:51
11	9M56013	WG247666-07 20 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 14:22
12	9M56014	WG247666-08 50 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 14:53
13	9M56015	WG247666-09 100 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 15:24
14	9M56016	WG247666-10 200 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 15:55
15	9M56017	WG247666-11 300 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 16:27
16	9M56018	SYSTEM BLANK	NA	7	1		08/14/07 16:58
17	9M56019	WG247666-12 20ug/Kg ALT SOURCE	NA	7	1	STD21327	08/14/07 17:29
18	9M56020	WG247666-12 20ug/Kg ALT SOURCE	NA	7	1	STD21327	08/14/07 18:01
19	9M56021	WG247666-13 100ug/Kg OXY ALT SOURC	NA	7	1	STD21327	08/14/07 18:32
20	9M56022	WG247667-01 VBLK0814 BLANK 8260	NA	7	1		08/14/07 19:03
21	9M56023	WG247667-02 20ug/Kg LCS 8260	NA	7	1	STD21327	08/14/07 19:33
22	9M56024	WG247667-03 20ug/Kg LCSDUP 8260	NA	7	1	STD21327	08/14/07 20:04
23	9M56025	L0708111-16 B 826-SPE	NA	7	1		08/14/07 20:35
24	9M56026	L0708111-17 B 826-SPE	NA	7	1		08/14/07 21:06
25	9M56027	L0708204-01 A 826-SPE	NA	7	1		08/14/07 21:37
26	9M56028	L0708204-04 A 826-SPE	NA	7	1		08/14/07 22:08
27	9M56029	L0708206-05 A 8260	NA	7	1		08/14/07 22:39
28	9M56030	L0708206-06 A A1 8260	NA	7	1		08/14/07 23:10
29	9M56031	SYSTEM BLANK	NA	7	1		08/14/07 23:41
30	9M56032	L0707659-06 A 826-REF-BLK	NA	7	1		08/15/07 00:12
31	9M56033	L0707659-07 A 826-REF-BLK	NA	7	1		08/15/07 00:44

Approved: August 16, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 081407
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 20451

Internal Standard: STD20987 Surrogate Standard: STD20761
CCV: STD21325 LCS: STD21327 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG247666,WG247667

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
32	9M56034	L0707659-08 A 826-REF-BLK	NA	7	1		08/15/07 01:15

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 9M56001				
	RR, vc is high.			
3				
File ID: 9M56002				
	RR, vc is high. Running a curve.			
33				
File ID: 9M56004				
	RR, BFB failed.			
34				
File ID: 9M56005				
	RR, BFB failed. Replaced the septum.			
35				
File ID: 9M56006				
	RR, BFB failed.			
17				
File ID: 9M56019				
	Do not report.			
26	X	100	Over Calibration Range	TEX,n-propyl,135 and 124-TMB,n-butyl, naph
File ID: 9M56028				
27	X	1	Carry-over contamination	
File ID: 9M56029				
	Do not report.			
28				
File ID: 9M56030				
	RR as 00.			

Approved: August 16, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 091207
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 20822

Internal Standard: STD21729 Surrogate Standard: STD21808
CCV: STD21849 LCS: STD21852 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG249872

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M68860	SYSTEM BLANK	NA	1	1		09/12/07 07:54
2	6M68861	WG249872-01 BFB 50ng STD 8260	NA	1	1	STD21685	09/12/07 08:22
3	6M68862	WG249872-01 BFB 50ng STD 8260	NA	1	1	STD21685	09/12/07 08:45
4	6M68863	SYSTEM BLANK	NA	1	1		09/12/07 09:10
5	6M68864	WG249872-02 0.30ug/L STD 8260	NA	1	1	STD21849	09/12/07 09:44
6	6M68865	WG249872-03 0.40ug/L STD 8260	NA	1	1	STD21849	09/12/07 10:17
7	6M68866	WG249872-04 1ug/L STD 8260	NA	1	1	STD21849	09/12/07 10:49
8	6M68867	WG249872-05 2ug/L STD 8260	NA	1	1	STD21849	09/12/07 11:21
9	6M68868	WG249872-06 5ug/L STD 8260	NA	1	1	STD21849	09/12/07 11:53
10	6M68869	WG249872-06 20ug/L STD 8260	NA	1	1	STD21849	09/12/07 12:25
11	6M68870	WG249872-07 50ug/L STD 8260	NA	1	1	STD21849	09/12/07 12:57
12	6M68871	WG249872-08 100ug/L STD 8260	NA	1	1	STD21849	09/12/07 13:30
13	6M68872	WG249872-09 200ug/L STD 8260	NA	1	1	STD21849	09/12/07 14:02
14	6M68873	WG249872-10 300ug/L STD 8260	NA	1	1	STD21849	09/12/07 14:34
15	6M68874	SYSTEM BLANK	NA	1	1		09/12/07 15:06
16	6M68875	SYSTEM BLANK	NA	1	1		09/12/07 15:38
17	6M68876	WG249872-05 5ug/L STD 8260	NA	1	1	STD21849	09/12/07 16:10
18	6M68877	WG249872-05 2ug/L STD 8260	NA	1	1	STD21849	09/12/07 16:41
19	6M68878	WG249872-04 1ug/L STD 8260	NA	1	1	STD21849	09/12/07 17:13
20	6M68879	WG249872-11 20ug/L ALT SRC STD 8260	NA	1	1	STD21852	09/12/07 17:45
21	6M68880	SYSTEM BLANK	NA	1	1		09/12/07 18:17
22	6M68881	SYSTEM BLANK	NA	1	1		09/12/07 18:49

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 6M68861				
			Tune failed/DNR	
7	X			
File ID: 6M68866				
			DNR	
8	X			
File ID: 6M68867				
			DNR	

Approved: September 13, 2007

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 091207
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 20822

Internal Standard: STD21729 Surrogate Standard: STD21808
CCV: STD21849 LCS: STD21852 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG249872

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9	X			
File ID: 6M68868				
	DNR			
18				
File ID: 6M68877				
	DNR-DID NOT USE A 2 POINT IN CURVE			

Approved: September 13, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092107
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21012

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD21923 LCS: STD21934 MS/MSD: NA

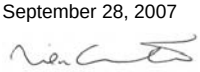
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG250650

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M56896	SYSTEM BLANK	NA	7	1		09/21/07 07:30
2	9M56897	SYSTEM BLANK	NA	7	1		09/21/07 08:02
3	9M56898	SYSTEM BLANK	NA	7	1		09/21/07 08:33
4	9M56899	SYSTEM BLANK	NA	7	1		09/21/07 09:04
5	9M56900	WG250649-01 50NG BFB STD 8260	NA	7	1		09/21/07 09:30
6	9M56901	WG250649-02 50ug/Kg SOIL STD 8260	NA	7	1	STD21923	09/21/07 09:55
7	9M56902	WG250650-01 VBLK0921 BLANK 8260	NA	7	1		09/21/07 10:26
8	9M56903	WG250650-02 20ug/Kg LCS 8260	NA	7	1	STD21934	09/21/07 10:57
9	9M56904	WG250650-03 20ug/Kg LCSDUP 8260	NA	7	1	STD21934	09/21/07 11:27
10	9M56905	L0709219-02 B A1 826-SPE	NA	7	1		09/21/07 11:58
11	9M56906	L0709457-01 A 826-SPE	NA	7	1		09/21/07 12:29
12	9M56907	L0709457-02 A 826-SPE	NA	7	1		09/21/07 12:59
13	9M56908	L0709457-03 A 826-SPE	NA	7	1		09/21/07 13:30
14	9M56909	L0709457-04 A 826-SPE	NA	7	1		09/21/07 14:00
15	9M56910	L0709457-05 A 826-SPE	NA	7	1		09/21/07 14:31
16	9M56911	L0709457-06 A 826-SPE	NA	7	1		09/21/07 15:01
17	9M56912	L0709457-07 A 826-SPE	NA	7	1		09/21/07 15:32
18	9M56913	L0709457-01 B 826-SPE	NA	7	1		09/21/07 16:03
19	9M56914	L0709520-04 A 826-SPE	NA	7	1		09/21/07 16:33
20	9M56915	L0709522-01 A 826-SPE	NA	7	1		09/21/07 17:04
21	9M56916	L0709522-02 A 826-SPE	NA	7	1		09/21/07 17:34
22	9M56917	L0709522-04 A 826-SPE	NA	7	1		09/21/07 18:05
23	9M56918	L0709522-05 A 826-SPE	NA	7	1		09/21/07 18:36
24	9M56919	L0709522-06 A 826-SPE	NA	7	1		09/21/07 19:07
25	9M56920	L0709522-07 A 826-SPE	NA	7	1		09/21/07 19:37
26	9M56921	L0709522-08 A 826-SPE	NA	7	1		09/21/07 20:09
27	9M56922	SYSTEM BLANK	NA	7	1		09/21/07 20:40
28	9M56923	5035 BLANK A 9/21	NA	7	1		09/21/07 21:11
29	9M56924	L0709088-06 A 826-REF-BLK	NA	7	1		09/21/07 21:43
30	9M56925	L0709088-07 A 826-REF-BLK	NA	7	1		09/21/07 22:14
31	9M56926	L0709088-08 A 826-REF-BLK	NA	7	1		09/21/07 22:45

Comments

Approved: September 28, 2007



KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092107
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21012

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD21923 LCS: STD21934 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG250650

Comments

Seq.	Rerun	Dil.	Reason	Analytes
11	X	1	Internal standard failure	
File ID: 9M56906				
Do not report-RR did not confirm.				
18				
File ID: 9M56913				
Changed from an A1 to a 00.				
25	X	1	Internal standard failure	
File ID: 9M56920				

Approved: September 28, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092507
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21022

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD21828 LCS: STD21763 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG250915

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M56959	SYSTEM BLANK	NA	7	1		09/25/07 07:40
2	9M56960	WG250914-01 BFB 50NG STD 8260	NA	7	1	STD21685	09/25/07 08:46
3	9M56961	WG250914-02 CCV 50UG/L STD 8260	NA	7	1	STD	09/25/07 09:20
4	9M56962	WG250914-02 CCV 50UG/L STD 8260	NA	7	1	STD	09/25/07 09:52
5	9M56963	WG250915-01 VBLK0925 BLANK 8260	NA	7	1		09/25/07 10:24
6	9M56964	WG250915-02 LCS 20UG/L STD 8260	NA	7	1	STD	09/25/07 10:56
7	9M56965	WG250915-03 LCS DUP 20UG/L STD 826	NA	7	1	STD	09/25/07 11:29
8	9M56966	L0709522-07 B 826-SPE	NA	7	1		09/25/07 12:01
9	9M56967	L0709569-03 B 826-SPE	NA	7	1		09/25/07 12:33
10	9M56968	L0709569-04 B A1 826-SPE	NA	7	1		09/25/07 13:05
11	9M56969	L0709594-17 A 826-SPE	NA	7	1		09/25/07 13:49
12	9M56970	L0709594-18 A 826-SPE	NA	7	1		09/25/07 14:20
13	9M56971	SYSTEM BLANK	NA	7	1		09/25/07 14:51
14	9M56972	SYSTEM BLANK	NA	7	1		09/25/07 15:21
15	9M56973	L0709594-19 A 5X 8260	NA	7	5		09/25/07 15:52
16	9M56974	L0709594-20 A 5X 8260	NA	7	5		09/25/07 16:22
17	9M56975	SYSTEM BLANK	NA	7	1		09/25/07 16:52
18	9M56976	SYSTEM BLANK	NA	7	1		09/25/07 17:22
19	9M56977	L0709594-18 A 826-SPE	NA	7	1		09/25/07 17:53
20	9M56978	SYSTEM BLANK	NA	7	1		09/25/07 18:24
21	9M56979	SYSTEM BLANK	NA	7	1		09/25/07 18:54
22	9M56980	SYSTEM BLANK	NA	7	1		09/25/07 19:25
23	9M56981	SYSTEM BLANK	NA	7	1		09/25/07 20:24
24	9M56982	SYSTEM BLANK	NA	7	1		09/25/07 20:55
25	9M56983	SYSTEM BLANK	NA	7	1		09/25/07 21:26
26	9M56984	SYSTEM CHECK	NA	7	1		09/25/07 21:57
27	9M56985	SYSTEM CHECK	NA	7	1		09/25/07 22:28

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 9M56961				
RR, vc is low.				

Approved: September 28, 2007

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092507
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21022

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD21828 LCS: STD21763 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG250915

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M56966				
Changed from an A1 to a 00.				
9				
File ID: 9M56967				
Changed from an A1 to a 00.				
11	X	100	Over Calibration Range	o-xylene, 135-TMB,124-TMB,naph
File ID: 9M56969				
12	X	1	Carry-over contamination	
File ID: 9M56970				
Do not report.				
15	X	100	Over Calibration Range	135-TMB,124-TMB,naph
File ID: 9M56973				
16				
File ID: 9M56974				
Do not report.				
19	X	1	Carry-over contamination	
File ID: 9M56977				
Do not report.				

Approved: September 28, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M69458	WG251483-01 BFB 50ng STD 8260	NA	1	1	STD21685	10/01/07 05:52
2	6M69459	WG251483-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 06:17
3	6M69460	WG251483-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 06:58
4	6M69461	WG251484-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 07:30
5	6M69462	WG251484-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 08:02
6	6M69463	WG251484-02 20ug/L LCS STD 8260	NA	1	1	STD22080	10/01/07 08:34
7	6M69464	WG251484-06 624 BLANK	NA	2	1		10/01/07 09:06
8	6M69465	L0709706-46 A 826-SPE	<2	1	1		10/01/07 09:38
9	6M69466	L0709497-02 A 826-SPE	<2	1	1		10/01/07 10:10
10	6M69467	L0709522-09 B 826-SPE	<2	1	1		10/01/07 10:42
11	6M69468	L0709522-03 B 826-SPE	=7	1	1		10/01/07 11:14
12	6M69469	L0709767-01 B 624-SPE	=7	2	1		10/01/07 11:46
13	6M69470	L0709538-02 A 826-SPE	<2	1	1		10/01/07 12:17
14	6M69471	L0709538-03 MS B 826-SPE	<2	1	1	STD22080	10/01/07 12:49
15	6M69472	L0709538-04 MSD A 826-SPE	<2	1	1	STD22080	10/01/07 13:21
16	6M69473	L0709508-01 A 2.5X 826-SPE	<2	1	2.5		10/01/07 13:53
17	6M69474	L0709669-06 A 624-SPE2	<2	2	1		10/01/07 14:25
18	6M69475	L0709541-01 A 826-SPE	<2	1	1		10/01/07 14:56
19	6M69476	L0709541-03 A 826-SPE	<2	1	1		10/01/07 15:28
20	6M69477	SYSTEM BLANK	NA	1	1		10/01/07 16:00
21	6M69478	WG251610-01 BFB 50ng STD 8260	NA	1	1	STD21685	10/01/07 16:31
22	6M69479	WG251610-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 16:54
23	6M69480	WG251611-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 17:25
24	6M69481	WG251611-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 17:57
25	6M69482	WG251611-02 20ug/L LCS STD 8260	NA	1	1	STD22080	10/01/07 18:29
26	6M69483	WG251611-03 20ug/L LCSDUP STD 8260	NA	1	1	STD22080	10/01/07 19:00
27	6M69484	L0709541-01 B 50X 826-SPE D1	<2	1	50		10/01/07 19:32
28	6M69485	L0709541-03 B 10X 826-SPE D1	<2	1	10		10/01/07 20:04
29	6M69486	L0709508-01 B 826-SPE	<2	1	1		10/01/07 20:35
30	6M69487	L0709446-01 B 826-SPE	<2	1	1		10/01/07 21:07
31	6M69488	L0709520-04 A 826-SPLP	<2	18	1		10/01/07 21:39
32	6M69489	L0709626-08 A 826-SPE	<2	1	1		10/01/07 22:11
33	6M69490	L0709485-15 A 8260	<2	1	1		10/01/07 22:43
34	6M69491	L0709485-01 B 20X 8260	<2	1	20		10/01/07 23:15

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M69492	L0709485-03 A 50X 8260	<2	1	50		10/01/07 23:47
36	6M69493	L0709485-05 B 2.5X 8260	<2	1	2.5		10/02/07 00:19
37	6M69494	L0709485-07 B 8260	<2	1	1		10/02/07 00:51
38	6M69495	L0709485-09 B 2000X 8260	<2	1	2000		10/02/07 01:23
39	6M69496	L0709485-11 B 8260	<2	1	1		10/02/07 01:55
40	6M69497	L0709485-13 B 8260	<2	1	1		10/02/07 02:27
41	6M69498	L0709501-23 A 826-SPE	<2	1	1		10/02/07 02:59
42	6M69499	L0709501-19 A 826-SPE	<2	1	1		10/02/07 03:31
43	6M69500	L0709501-15 A 826-SPE	<2	1	1		10/02/07 04:04
44	6M69501	SYSTEM BLANK	NA	1	1		10/02/07 04:36
45	6M69502	SYSTEM BLANK	NA	1	1		10/02/07 05:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X		Check Standard Failure	
File ID: 6M69459				
	DNR			
4	X		Carry-over contamination	
File ID: 6M69461				
	DNR			
16	X	1	Analyzed too dilute	
File ID: 6M69473				
	DNR			
18	X	50	Over Calibration Range	VC, cis-1,2-DCE, TCE
File ID: 6M69475				
19	X	10	Over Calibration Range	VC, cis-1,2-DCE, TCE
File ID: 6M69476				
23	X		Carry-over contamination	
File ID: 6M69480				
	DNR			
35	X	200	Over Calibration Range	CB
File ID: 6M69492				
36	X	50	Over Calibration Range	CB

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 6M69493				
37	X	2	Over Calibration Range	CB
File ID: 6M69494				
38	X	1000	Analyzed too dilute	
File ID: 6M69495				
	DNR			
39	X	10	Over Calibration Range	Ben., CB
File ID: 6M69496				
40	X	10	Over Calibration Range	Ben., CB
File ID: 6M69497				
41	X		Carry-over contamination	
File ID: 6M69498				
	DNR			

Approved: October 05, 2007

KEMRON Environmental Services
Data Checklist

Date: 14-AUG-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 17758
Analytical Workgroups: WG247666,WG247667

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
15-AUG-2007

Secondary Reviewer:
16-AUG-2007

Generated: AUG-17-2007 09:11:11

KEMRON Environmental Services
Data Checklist

Date: 21-SEP-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 18437
Analytical Workgroups: WG250650

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
26-SEP-2007

Secondary Reviewer:
28-SEP-2007

Generated: SEP-28-2007 14:45:30

KEMRON Environmental Services
Data Checklist

Date: 25-SEP-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 18448
Analytical Workgroups: WG250915

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
26-SEP-2007

Secondary Reviewer:
28-SEP-2007

Generated: SEP-28-2007 09:10:30

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 18577
Analytical Workgroups: WG251484;WG251611

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
04-OCT-2007

Secondary Reviewer:
05-OCT-2007

Generated: OCT-05-2007 09:00:53

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG250650

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0076-SO-092007/FD	09/20/07	09/21/07	09/21/07	14	1.24	09/21/07	14	1.24	
0077-SO-092007	09/20/07	09/21/07	09/21/07	14	1.17	09/21/07	14	1.17	
0078-SO-092007	09/20/07	09/21/07	09/21/07	14	1.17	09/21/07	14	1.17	
0076-SO-092007	09/20/07	09/21/07	09/21/07	14	1.22	09/21/07	14	1.22	
0079-SO-092007	09/20/07	09/21/07	09/21/07	14	1.16	09/21/07	14	1.16	
0081-SO-092007	09/20/07	09/21/07	09/21/07	14	1.16	09/21/07	14	1.16	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG250915

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0080-SO-092007	09/20/07	09/21/07	09/25/07	14	4.83	09/25/07	14	4.83	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

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KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG251484

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	09/20/07	09/21/07	10/01/07	14	11.4	10/01/07	14	11.4	
0076-GW-092007	09/20/07	09/21/07	10/01/07	14	11.0	10/01/07	14	11.0	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS9
Workgroup (AAB#): WG250650

Method: 8260
CAL ID: HPMS9-14-AUG-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709522-01	1.00	01	101	112	108	108
L0709522-02	1.00	01	100	110	110	111
L0709522-04	1.00	01	103	113	104	108
L0709522-05	1.00	01	102	110	101	105
L0709522-06	1.00	01	102	111	104	107
L0709522-08	1.00	01	111	114	103	105
WG250650-01	1.00	01	94.8	105	97.1	101
WG250650-02	1.00	01	94.9	106	97.3	103
WG250650-03	1.00	01	94.3	106	98.3	105

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

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KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS6
Workgroup (AAB#): WG251484

Method: 8260
CAL ID: HPMS6-12-SEP-07
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L0709522-03	1.00	02	94.7	95.4	103	98.4
L0709522-09	1.00	02	92.4	93.9	102	98.9
WG251484-01	1.00	01	93.4	93.1	104	98.9
WG251484-02	1.00	01	95.4	93.0	101	99.5
WG251484-06	1.00	01	92.6	93.5	103	99.5

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 885179
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KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS9
Workgroup (AAB#): WG250915

Method: 8260
CAL ID: HPMS9-14-AUG-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709522-07	1.00	02	90.9	103	92.2	96.1
WG250915-01	1.00	01	95.1	107	94.1	102
WG250915-02	1.00	01	93.9	109	94.9	104
WG250915-03	1.00	01	95.7	111	97.9	107

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

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Version 1.5 PDF File ID: 885179
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KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709522	**Work Group:**	WG251484
Blank File ID:	6M69462	**Blank Sample ID:**	WG251484-01
Prep Date:	10/01/07 08:02	**Instrument ID:**	HPMS6
Analyzed Date:	10/01/07 08:02	**Method:**	8260B
Analyst:	CMS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251484-02	6M69463	10/01/07 08:34	01
TRIP BLANK	L0709522-09	6M69467	10/01/07 10:42	02
0076-GW-092007	L0709522-03	6M69468	10/01/07 11:14	02

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number: L0709522
Work Group: WG250650
Blank File ID: 9M56902
Blank Sample ID: WG250650-01
Prep Date: 09/21/07 10:26
Instrument ID: HPMS9
Analyzed Date: 09/21/07 10:26
Method: 8260B
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG250650-02	9M56903	09/21/07 10:57	01
LCS2	WG250650-03	9M56904	09/21/07 11:27	01
0076-SO-092007	L0709522-01	9M56915	09/21/07 17:04	01
0076-SO-092007/FD	L0709522-02	9M56916	09/21/07 17:34	01
0077-SO-092007	L0709522-04	9M56917	09/21/07 18:05	01
0078-SO-092007	L0709522-05	9M56918	09/21/07 18:36	01
0079-SO-092007	L0709522-06	9M56919	09/21/07 19:07	01
0081-SO-092007	L0709522-08	9M56921	09/21/07 20:09	01

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Report generated 10/08/2007 12:33

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709522	**Work Group:**	WG250915
Blank File ID:	9M56963	**Blank Sample ID:**	WG250915-01
Prep Date:	09/25/07 10:24	**Instrument ID:**	HPMS9
Analyzed Date:	09/25/07 10:24	**Method:**	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG250915-02	9M56964	09/25/07 10:56	01
LCS2	WG250915-03	9M56965	09/25/07 11:29	01
0080-SO-092007	L0709522-07	9M56966	09/25/07 12:01	02

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 10/01/07 08:02 Sample ID: WG251484-01
Instrument ID: HPMS6 Run Date: 10/01/07 08:02 Prep Method: 5030B
File ID: 6M69462 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251484 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-12-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 10/01/07 08:02 Sample ID: WG251484-01
Instrument ID: HPMS6 Run Date: 10/01/07 08:02 Prep Method: 5030B
File ID: 6M69462 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251484 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-12-SEP-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.4	76 - 114	PASS
4-Bromofluorobenzene	104	86 - 115	PASS
Dibromofluoromethane	93.1	85 - 115	PASS
Toluene-d8	98.9	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
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Report generated 10/08/2007 12:33

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/21/07 10:26 Sample ID: WG250650-01
Instrument ID: HPMS9 Run Date: 09/21/07 10:26 Prep Method: 5030B
File ID: 9M56902 Analyst: MES Method: 8260B
Workgroup (AAB#): WG250650 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/21/07 10:26 Sample ID: WG250650-01
Instrument ID: HPMS9 Run Date: 09/21/07 10:26 Prep Method: 5030B
File ID: 9M56902 Analyst: MES Method: 8260B
Workgroup (AAB#): WG250650 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	94.8	70 - 121	PASS
4-Bromofluorobenzene	97.1	59 - 113	PASS
Dibromofluoromethane	105	65 - 135	PASS
Toluene-d8	101	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/25/07 10:24 Sample ID: WG250915-01
Instrument ID: HPMS9 Run Date: 09/25/07 10:24 Prep Method: 5030B
File ID: 9M56963 Analyst: MES Method: 8260B
Workgroup (AAB#): WG250915 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/25/07 10:24 Sample ID: WG250915-01
Instrument ID: HPMS9 Run Date: 09/25/07 10:24 Prep Method: 5030B
File ID: 9M56963 Analyst: MES Method: 8260B
Workgroup (AAB#): WG250915 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	95.1	70 - 121	PASS
4-Bromofluorobenzene	94.1	59 - 113	PASS
Dibromofluoromethane	107	65 - 135	PASS
Toluene-d8	102	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251484-02
Instrument ID: HPMS6 Run Time: 08:34 Prep Method: 5030B
File ID: 6M69463 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251484 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD22080 Cal ID: HPMS6-12-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	20.6	103	67 - 132	
1,1,2,2-Tetrachloroethane	20.0	21.4	107	63 - 128	
1,1,2-Trichloroethane	20.0	21.7	108	70 - 125	
1,1-Dichloroethane	20.0	21.2	106	67 - 133	
1,1-Dichloroethene	20.0	20.6	103	68 - 130	
1,2,4-Trichlorobenzene	20.0	21.5	108	65 - 134	
1,2-Dichlorobenzene	20.0	21.1	106	71 - 122	
1,2-Dichloroethane	20.0	20.9	105	69 - 132	
1,2-Dichloropropane	20.0	21.4	107	75 - 125	
1,3-Dichlorobenzene	20.0	20.7	103	75 - 124	
1,4-Dichlorobenzene	20.0	20.2	101	74 - 123	
1,4-Dioxane	200	103	51.3	70 - 130	*
2-Butanone	20.0	21.0	105	49 - 136	
2-Hexanone	20.0	19.4	97.2	65 - 135	
4-Methyl-2-pentanone	20.0	19.4	97.2	58 - 134	
Acetone	20.0	21.8	109	30 - 135	
Acrylonitrile	20.0	20.7	103	60 - 135	
Benzene	20.0	21.4	107	81 - 122	
Bromodichloromethane	20.0	22.2	111	76 - 121	
Bromoform	20.0	18.3	91.4	69 - 128	
Bromomethane	20.0	15.2	76.0	53 - 141	
Carbon disulfide	20.0	18.5	92.4	70 - 130	
Carbon tetrachloride	20.0	20.7	104	66 - 138	
Chlorobenzene	20.0	20.8	104	81 - 122	
Dibromochloromethane	20.0	19.6	98.2	66 - 133	
Chloroethane	20.0	19.9	99.7	58 - 133	
Chloroform	20.0	21.4	107	69 - 128	
Chloromethane	20.0	16.1	80.3	56 - 131	
cis-1,2-Dichloroethene	20.0	22.3	112	72 - 126	
cis-1,3-Dichloropropene	20.0	19.6	98.2	69 - 131	
Ethylbenzene	20.0	22.0	110	73 - 127	
Methylene chloride	20.0	20.0	99.9	63 - 137	
Methyltert-butyl ether	20.0	23.4	117	65 - 123	
Styrene	20.0	21.1	105	65 - 134	
Tetrachloroethene	20.0	22.8	114	66 - 128	
Toluene	20.0	22.5	113	77 - 122	
trans-1,2-Dichloroethene	20.0	21.5	107	63 - 137	
trans-1,3-Dichloropropene	20.0	20.8	104	59 - 135	
Trichloroethene	20.0	22.6	113	70 - 127	
Vinyl acetate	20.0	18.6	93.2	65 - 130	
Vinyl chloride	20.0	16.9	84.4	50 - 134	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251484-02
Instrument ID: HPMS6 Run Time: 08:34 Prep Method: 5030B
File ID: 6M69463 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251484 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD22080 Cal ID: HPMS6-12-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	65.1	109	75 - 120	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	95.4	76 - 114	PASS
4-Bromofluorobenzene	101	86 - 115	PASS
Dibromofluoromethane	93.0	85 - 115	PASS
Toluene-d8	99.5	88 - 110	PASS

* FAILS %REC LIMIT

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 894092
Report generated 10/10/2007 14:59

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709522 Analyst:MES Prep Method:5030B
Instrument ID:HPMS9 Matrix:Soil Method:8260B
Workgroup (AAB#):WG250650 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD21763

Sample ID:WG250650-02 LCS File ID:9M56903 Run Date:09/21/2007 10:57
Sample ID:WG250650-03 LCS2 File ID:9M56904 Run Date:09/21/2007 11:27

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	21.0	105	20.0	21.5	108	2.48	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	20.5	103	20.0	22.4	112	8.93	59 - 140	30	
1,1,2-Trichloroethane	20.0	21.6	108	20.0	23.4	117	8.14	62 - 127	30	
1,1-Dichloroethane	20.0	19.4	96.9	20.0	19.6	98.1	1.28	73 - 125	30	
1,1-Dichloroethene	20.0	22.3	111	20.0	22.6	113	1.19	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	22.2	111	20.0	23.9	119	7.27	65 - 131	30	
1,2-Dichlorobenzene	20.0	21.0	105	20.0	23.2	116	9.95	74 - 120	30	
1,2-Dichloroethane	20.0	19.3	96.5	20.0	20.1	100	3.85	72 - 137	30	
1,2-Dichloropropane	20.0	20.6	103	20.0	21.3	107	3.65	71 - 120	30	
1,3-Dichlorobenzene	20.0	20.6	103	20.0	22.3	112	8.01	72 - 124	30	
1,4-Dichlorobenzene	20.0	20.1	100	20.0	22.2	111	9.97	72 - 125	30	
1,4-Dioxane	200	184	92.0	200	196	97.8	6.11	50 - 150	30	
2-Butanone	20.0	19.5	97.4	20.0	20.0	99.8	2.44	40 - 135	30	
2-Hexanone	20.0	18.1	90.5	20.0	18.7	93.5	3.26	50 - 140	30	
4-Methyl-2-pentanone	20.0	20.5	103	20.0	21.3	107	3.86	50 - 140	30	
Acetone	20.0	17.6	88.2	20.0	16.9	84.4	4.41	40 - 141	30	
Acrylonitrile	20.0	18.6	92.8	20.0	18.9	94.4	1.72	60 - 140	30	
Benzene	20.0	21.0	105	20.0	21.4	107	2.03	73 - 126	30	
Bromodichloromethane	20.0	21.7	109	20.0	22.9	114	5.13	72 - 128	30	
Bromoform	20.0	22.9	115	20.0	25.1	126	9.26	60 - 137	30	
Bromomethane	20.0	24.7	124	20.0	24.9	125	0.831	45 - 141	30	
Carbon disulfide	20.0	15.9	79.4	20.0	16.2	81.2	2.27	65 - 135	30	
Carbon tetrachloride	20.0	23.0	115	20.0	23.2	116	0.626	67 - 133	30	
Chlorobenzene	20.0	20.4	102	20.0	22.0	110	7.33	75 - 123	30	
Dibromochloromethane	20.0	22.5	112	20.0	24.4	122	8.36	66 - 130	30	
Chloroethane	20.0	20.5	102	20.0	20.7	104	1.08	41 - 141	30	
Chloroform	20.0	20.3	102	20.0	20.9	104	2.63	72 - 124	30	
Chloromethane	20.0	17.9	89.4	20.0	18.2	91.2	1.99	51 - 129	30	
cis-1,2-Dichloroethene	20.0	22.4	112	20.0	22.7	113	1.35	67 - 125	30	
cis-1,3-Dichloropropene	20.0	21.4	107	20.0	22.1	111	3.52	72 - 126	30	
Ethylbenzene	20.0	21.7	109	20.0	23.0	115	5.90	74 - 127	30	
Methylene chloride	20.0	20.6	103	20.0	20.5	102	0.504	63 - 137	30	
Methyltert-butyl ether	20.0	20.4	102	20.0	20.5	103	0.578	50 - 135	30	
Styrene	20.0	22.6	113	20.0	24.5	122	7.93	74 - 128	30	
Tetrachloroethene	20.0	22.5	112	20.0	22.8	114	1.54	67 - 139	30	
Toluene	20.0	20.8	104	20.0	21.7	108	4.17	71 - 127	30	
trans-1,2-Dichloroethene	20.0	21.5	108	20.0	21.7	109	0.780	66 - 134	30	
trans-1,3-Dichloropropene	20.0	18.8	94.1	20.0	20.0	99.9	6.04	65 - 127	30	
Trichloroethene	20.0	23.8	119	20.0	24.1	121	1.54	77 - 124	30	
Vinyl acetate	20.0	19.5	97.7	20.0	19.0	95.2	2.63	55 - 130	30	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Analyst: MES Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG250650 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD21763

Sample ID: WG250650-02 LCS File ID: 9M56903 Run Date: 09/21/2007 10:57
Sample ID: WG250650-03 LCS2 File ID: 9M56904 Run Date: 09/21/2007 11:27

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	22.0	110	20.0	21.9	109	0.411	58 - 126	30	
Xylenes	60.0	66.3	110	60.0	70.3	117	5.98	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	106	106	65 - 135	PASS
1,2-Dichloroethane-d4	94.9	94.3	70 - 121	PASS
Toluene-d8	103	105	86 - 138	PASS
4-Bromofluorobenzene	97.3	98.3	59 - 113	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 885170
Report generated 10/08/2007 12:33

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709522 Analyst:MES Prep Method:5030B
Instrument ID:HPMS9 Matrix:Soil Method:8260B
Workgroup (AAB#):WG250915 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD21763

Sample ID:WG250915-02 LCS File ID:9M56964 Run Date:09/25/2007 10:56
Sample ID:WG250915-03 LCS2 File ID:9M56965 Run Date:09/25/2007 11:29

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	18.9	94.5	20.0	21.3	106	11.9	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	18.4	91.8	20.0	19.9	99.3	7.93	59 - 140	30	
1,1,2-Trichloroethane	20.0	19.2	96.1	20.0	21.4	107	10.8	62 - 127	30	
1,1-Dichloroethane	20.0	17.5	87.4	20.0	20.0	100	13.5	73 - 125	30	
1,1-Dichloroethene	20.0	20.1	100	20.0	22.7	114	12.3	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	19.1	95.7	20.0	21.6	108	11.9	65 - 131	30	
1,2-Dichlorobenzene	20.0	18.3	91.7	20.0	20.8	104	12.5	74 - 120	30	
1,2-Dichloroethane	20.0	17.5	87.7	20.0	19.6	98.0	11.1	72 - 137	30	
1,2-Dichloropropane	20.0	18.8	94.0	20.0	21.7	108	14.1	71 - 120	30	
1,3-Dichlorobenzene	20.0	18.2	91.0	20.0	20.5	102	11.7	72 - 124	30	
1,4-Dichlorobenzene	20.0	17.6	88.0	20.0	19.9	99.7	12.5	72 - 125	30	
1,4-Dioxane	200	244	122	200	247	123	1.29	50 - 150	30	
2-Butanone	20.0	20.3	101	20.0	20.4	102	0.458	40 - 135	30	
2-Hexanone	20.0	17.9	89.7	20.0	16.8	84.2	6.31	50 - 140	30	
4-Methyl-2-pentanone	20.0	21.4	107	20.0	19.5	97.6	9.00	50 - 140	30	
Acetone	20.0	18.8	93.8	20.0	17.7	88.6	5.78	40 - 141	30	
Acrylonitrile	20.0	19.5	97.4	20.0	18.5	92.3	5.36	60 - 140	30	
Benzene	20.0	19.1	95.7	20.0	21.9	109	13.2	73 - 126	30	
Bromodichloromethane	20.0	19.3	96.3	20.0	21.9	110	13.1	72 - 128	30	
Bromoform	20.0	19.8	99.1	20.0	21.9	109	9.71	60 - 137	30	
Bromomethane	20.0	21.2	106	20.0	24.3	122	13.6	45 - 141	30	
Carbon disulfide	20.0	17.8	89.2	20.0	17.5	87.4	2.04	65 - 135	30	
Carbon tetrachloride	20.0	20.2	101	20.0	23.3	117	14.3	67 - 133	30	
Chlorobenzene	20.0	18.6	93.1	20.0	20.9	104	11.4	75 - 123	30	
Dibromochloromethane	20.0	19.4	96.8	20.0	22.1	111	13.3	66 - 130	30	
Chloroethane	20.0	16.7	83.3	20.0	18.7	93.4	11.4	41 - 141	30	
Chloroform	20.0	18.4	91.9	20.0	21.1	105	13.7	72 - 124	30	
Chloromethane	20.0	15.6	77.8	20.0	17.8	89.0	13.5	51 - 129	30	
cis-1,2-Dichloroethene	20.0	20.5	103	20.0	22.9	115	11.1	67 - 125	30	
cis-1,3-Dichloropropene	20.0	19.1	95.6	20.0	21.6	108	12.1	72 - 126	30	
Ethylbenzene	20.0	19.1	95.7	20.0	21.9	109	13.4	74 - 127	30	
Methylene chloride	20.0	18.4	92.1	20.0	20.9	104	12.5	63 - 137	30	
Methyltert-butyl ether	20.0	20.9	104	20.0	20.6	103	1.04	50 - 135	30	
Styrene	20.0	20.4	102	20.0	22.8	114	11.3	74 - 128	30	
Tetrachloroethene	20.0	19.8	99.0	20.0	22.5	112	12.7	67 - 139	30	
Toluene	20.0	18.7	93.7	20.0	21.4	107	13.3	71 - 127	30	
trans-1,2-Dichloroethene	20.0	19.3	96.3	20.0	22.1	111	13.8	66 - 134	30	
trans-1,3-Dichloropropene	20.0	16.4	82.1	20.0	18.5	92.6	11.9	65 - 127	30	
Trichloroethene	20.0	20.9	104	20.0	23.9	120	13.7	77 - 124	30	
Vinyl acetate	20.0	18.4	92.0	20.0	18.2	91.2	0.843	55 - 130	30	

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 885170
Report generated 10/08/2007 12:33

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Analyst: MES Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG250915 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD21763

Sample ID: WG250915-02 LCS File ID: 9M56964 Run Date: 09/25/2007 10:56
Sample ID: WG250915-03 LCS2 File ID: 9M56965 Run Date: 09/25/2007 11:29

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	19.2	96.2	20.0	22.1	110	13.8	58 - 126	30	
Xylenes	60.0	58.7	97.8	60.0	66.6	111	12.7	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	109	111	65 - 135	PASS
1,2-Dichloroethane-d4	93.9	95.7	70 - 121	PASS
Toluene-d8	104	107	86 - 138	PASS
4-Bromofluorobenzene	94.9	97.9	59 - 113	PASS

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 885170
Report generated 10/08/2007 12:33

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709522 Tune ID: WG249872-01
Instrument: HPMS6 Run Date: 09/12/2007
Analyst: CMS Run Time: 08:45
Workgroup: WG249872 File ID: 6M68862
Cal ID: HPMS6-12-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	21.0	10950	PASS
75.0	95.0	30.0	60.0	52.0	27058	PASS
95.0	95.0	100	100	100	52032	PASS
96.0	95.0	5.00	9.00	7.69	4001	PASS
173	174	0	2.00	1.04	432	PASS
174	95.0	50.0	100	79.6	41429	PASS
175	174	5.00	9.00	7.99	3309	PASS
176	174	95.0	101	95.5	39581	PASS
177	176	5.00	9.00	6.66	2636	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG249872-02	STD	01	09/12/2007 09:44	
WG249872-03	STD	01	09/12/2007 10:17	
WG249872-06	STD	01	09/12/2007 12:25	
WG249872-07	STD-CCV	01	09/12/2007 12:57	
WG249872-08	STD	01	09/12/2007 13:30	
WG249872-09	STD	01	09/12/2007 14:02	
WG249872-10	STD	01	09/12/2007 14:34	
WG249872-05	STD	01	09/12/2007 16:10	
WG249872-04	STD	01	09/12/2007 17:13	
WG249872-11	SSCV	01	09/12/2007 17:45	

* Sample past 12 hour tune limit

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709522 Tune ID: WG251483-01
Instrument: HPMS6 Run Date: 10/01/2007
Analyst: CMS Run Time: 05:52
Workgroup: WG251483 File ID: 6M69458
Cal ID: HPMS6-12-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	19.8	7377	PASS
75.0	95.0	30.0	60.0	48.7	18109	PASS
95.0	95.0	100	100	100	37202	PASS
96.0	95.0	5.00	9.00	6.19	2303	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	75.5	28069	PASS
175	174	5.00	9.00	7.58	2129	PASS
176	174	95.0	101	95.5	26794	PASS
177	176	5.00	9.00	6.56	1759	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251483-02	CCV	01	10/01/2007 06:58	
WG251484-01	BLANK	01	10/01/2007 08:02	
WG251484-02	LCS	01	10/01/2007 08:34	
WG251484-06	BLANK2	01	10/01/2007 09:06	
L0709522-09	TRIP BLANK	02	10/01/2007 10:42	
L0709522-03	0076-GW-092007	02	10/01/2007 11:14	
WG251484-03	REF	01	10/01/2007 12:17	
WG251484-04	MS	01	10/01/2007 12:49	
WG251484-05	MSD	01	10/01/2007 13:21	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709522 Tune ID: WG247666-01
Instrument: HPMS9 Run Date: 08/14/2007
Analyst: MES Run Time: 11:19
Workgroup: WG247666 File ID: 9M56007
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	18.9	4941	PASS
75.0	95.0	30.0	60.0	43.9	11486	PASS
95.0	95.0	100	100	100	26157	PASS
96.0	95.0	5.00	9.00	6.51	1702	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	82.6	21613	PASS
175	174	5.00	9.00	7.88	1704	PASS
176	174	95.0	101	97.6	21090	PASS
177	176	5.00	9.00	6.57	1386	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG247666-02	STD-S	01	08/14/2007 11:42	
WG247666-03	STD-S	01	08/14/2007 12:13	
WG247666-04	STD-S	01	08/14/2007 12:49	
WG247666-05	STD-S	01	08/14/2007 13:19	
WG247666-06	STD-S	01	08/14/2007 13:51	
WG247666-07	STD-S	01	08/14/2007 14:22	
WG247666-08	STD-CCV-S	01	08/14/2007 14:53	
WG247666-09	STD-S	01	08/14/2007 15:24	
WG247666-10	STD-S	01	08/14/2007 15:55	
WG247666-11	STD-S	01	08/14/2007 16:27	
WG247666-12	SSCV-S	01	08/14/2007 18:01	
WG247666-13	SSCV-S	01	08/14/2007 18:32	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709522 Tune ID: WG250649-01
Instrument: HPMS9 Run Date: 09/21/2007
Analyst: MES Run Time: 09:30
Workgroup: WG250649 File ID: 9M56900
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	16.2	2598	PASS
75.0	95.0	30.0	60.0	40.3	6483	PASS
95.0	95.0	100	100	100	16082	PASS
96.0	95.0	5.00	9.00	6.52	1048	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	89.1	14322	PASS
175	174	5.00	9.00	8.02	1149	PASS
176	174	95.0	101	95.5	13683	PASS
177	176	5.00	9.00	6.56	898	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG250649-02	CCV-S	01	09/21/2007 09:55	
WG250650-01	BLANK	01	09/21/2007 10:26	
WG250650-02	LCS	01	09/21/2007 10:57	
WG250650-03	LCS2	01	09/21/2007 11:27	
L0709522-01	0076-SO-092007	01	09/21/2007 17:04	
L0709522-02	0076-SO-092007/FD	01	09/21/2007 17:34	
L0709522-04	0077-SO-092007	01	09/21/2007 18:05	
L0709522-05	0078-SO-092007	01	09/21/2007 18:36	
L0709522-06	0079-SO-092007	01	09/21/2007 19:07	
L0709522-08	0081-SO-092007	01	09/21/2007 20:09	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709522 Tune ID: WG250914-01
Instrument: HPMS9 Run Date: 09/25/2007
Analyst: MES Run Time: 08:46
Workgroup: WG250914 File ID: 9M56960
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	17.2	3814	PASS
75.0	95.0	30.0	60.0	41.8	9290	PASS
95.0	95.0	100	100	100	22210	PASS
96.0	95.0	5.00	9.00	6.89	1530	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	88.0	19544	PASS
175	174	5.00	9.00	7.34	1434	PASS
176	174	95.0	101	100	19634	PASS
177	176	5.00	9.00	5.90	1158	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG250914-02	CCV-S	01	09/25/2007 09:52	
WG250915-01	BLANK	01	09/25/2007 10:24	
WG250915-02	LCS	01	09/25/2007 10:56	
WG250915-03	LCS2	01	09/25/2007 11:29	
L0709522-07	0080-SO-092007	02	09/25/2007 12:01	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 895257
Report generated 10/08/2007 12:33

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

ICAL Workgroup: WG249872 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3558	16.7	1.00	
1,2-Dichloropropane	CCC	0.2029	10.3		
Chloroform	CCC	0.4804	5.84		
Ethylbenzene	CCC	0.4624	13.3		
Toluene	CCC	1.206	9.04		
Vinyl Chloride	CCC	0.2892	17.8		1.00
1,1,2,2-Tetrachloroethane	SPCC	0.3514	6.11		
1,1-Dichloroethane	SPCC	0.4276	7.39		
Bromoform	SPCC	0.1734	18.8	0.999	
Chlorobenzene	SPCC	0.8816	5.96		
Chloromethane	SPCC	0.3222	14.3		
1,1,1-Trichloroethane		0.4205	18.1		1.00
1,1,2-Trichloroethane		0.1958	7.73		
1,2,4-Trichlorobenzene		0.8920	5.68		
1,2-Dichlorobenzene		1.193	5.57		
1,2-Dichloroethane		0.3345	4.48		
1,3-Dichlorobenzene		1.378	6.17		
1,4-Dichlorobenzene		1.429	3.28		
1,4-Dioxane		0.0009333	19.6		0.992
2-Butanone		0.04932	5.32		
2-Hexanone		0.09588	10.1		
4-Methyl-2-Pentanone		0.04165	10.9		
Acetone		0.03707	8.52		
Acrylonitrile		0.04421	11.1		
Benzene		0.8916	6.60		
Bromodichloromethane		0.3399	9.79		
Bromomethane		0.2032	4.19		
Carbon Disulfide		0.6910	17.6	0.999	
Carbon Tetrachloride		0.3865	21.3		1.00
Chloroethane		0.1749	7.69		
Dibromochloromethane		0.2762	15.6	1.00	
Methyl Tert Butyl Ether		0.4499	8.28		
Methylene Chloride		0.3718	61.8	1.00	
Styrene		0.9660	14.0		
Tetrachloroethene		0.3323	13.9		
Trichloroethene		0.2408	13.9		
Vinyl Acetate		0.2424	5.27		
cis-1,2-Dichloroethene		0.2464	13.8		
cis-1,3-Dichloropropene		0.3378	17.8	1.00	
m-,p-Xylene		0.5741	13.0		
o-Xylene		0.5689	14.0		
trans-1,2-Dichloroethene		0.2329	12.4		
trans-1,3-Dichloropropene		0.3965	14.3		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522
Analytical Method: 8260B
ICAL Workgroup: WG249872

Instrument ID: HPMS6
Initial Calibration Date: 12-SEP-07 17:13
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON FORMS - Modified 01/18/2007
Version 1.5 PDF File ID: 895256
Report generated 10/08/2007 12:33

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

ICAL Workgroup: WG247666 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.2472	9.58		
1,2-Dichloropropane	CCC	0.2446	5.91		
Chloroform	CCC	0.4886	6.48		
Ethylbenzene	CCC	0.4928	6.88		
Toluene	CCC	1.365	6.06		
Vinyl Chloride	CCC	0.2050	8.41		
1,1,2,2-Tetrachloroethane	SPCC	0.4921	5.62		
1,1-Dichloroethane	SPCC	0.5052	6.07		
Bromoform	SPCC	0.1812	7.91		
Chlorobenzene	SPCC	0.9618	5.85		
Chloromethane	SPCC	0.2855	6.81		
1,1,1-Trichloroethane		0.4670	6.54		
1,1,2-Trichloroethane		0.2498	5.82		
1,2,4-Trichlorobenzene		0.8491	5.57		
1,2-Dichlorobenzene		1.273	4.99		
1,2-Dichloroethane		0.3752	7.96		
1,3-Dichlorobenzene		1.394	6.74		
1,4-Dichlorobenzene		1.446	9.05		
1,4-Dioxane		0.001783	15.8	0.999	
2-Butanone		0.1161	8.47		
2-Hexanone		0.1980	8.61		
4-Methyl-2-Pentanone		0.08620	6.29		
Acetone		0.09077	34.7		0.999
Acrylonitrile		0.08527	5.49		
Benzene		1.037	5.92		
Bromodichloromethane		0.3243	6.66		
Bromomethane		0.1493	11.5		
Carbon Disulfide		0.8337	6.50		
Carbon Tetrachloride		0.4010	11.0		
Chloroethane		0.1649	8.41		
Dibromochloromethane		0.3068	11.6		
Methyl Tert Butyl Ether		0.6880	3.63		
Methylene Chloride		0.2917	18.6		1.00
Styrene		0.8775	12.1		
Tetrachloroethene		0.2986	6.37		
Trichloroethene		0.3199	6.40		
Vinyl Acetate		0.5434	5.31		
cis-1,2-Dichloroethene		0.2866	5.62		
cis-1,3-Dichloropropene		0.3787	8.26		
m-,p-Xylene		0.5933	7.83		
o-Xylene		0.5503	9.72		
trans-1,2-Dichloroethene		0.2822	6.05		
trans-1,3-Dichloropropene		0.4341	8.54		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

ICAL Workgroup: WG247666 **Column ID:** F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-02			WG249872-03			WG249872-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4587.00000	0.3224	1.00	10509.0000	0.2470
1,2-Dichloropropane	NA	NA	NA	0.400	2443.00000	0.1717	1.00	7498.00000	0.1762
Chloroform	0.300	5306.00000	0.4849	0.400	6619.00000	0.4652	1.00	18238.0000	0.4286
Ethylbenzene	NA	NA	NA	0.400	4601.00000	0.4183	1.00	11570.0000	0.3544
Toluene	NA	NA	NA	0.400	12098.0000	1.100	1.00	33469.0000	1.025
Vinyl Chloride	NA	NA	NA	0.400	5161.00000	0.3627	1.00	13902.0000	0.3267
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1960.00000	0.3084	1.00	6285.00000	0.3373
1,1-Dichloroethane	NA	NA	NA	0.400	5842.00000	0.4106	1.00	15792.0000	0.3712
Bromoform	NA	NA	NA	NA	NA	NA	1.00	4077.00000	0.1249
Chlorobenzene	NA	NA	NA	0.400	9843.00000	0.8949	1.00	25575.0000	0.7835
Chloromethane	NA	NA	NA	0.400	5507.00000	0.3871	1.00	16143.0000	0.3794
1,1,1-Trichloroethane	NA	NA	NA	0.400	5243.00000	0.3685	1.00	12283.0000	0.2887
1,1,2-Trichloroethane	NA	NA	NA	0.400	1824.00000	0.1658	1.00	6093.00000	0.1866
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	5365.00000	0.8441	1.00	15177.0000	0.8146
1,2-Dichlorobenzene	0.300	5332.00000	1.115	0.400	7270.00000	1.144	1.00	20554.0000	1.103
1,2-Dichloroethane	NA	NA	NA	0.400	4920.00000	0.3458	1.00	13308.0000	0.3128
1,3-Dichlorobenzene	NA	NA	NA	0.400	8316.00000	1.308	1.00	23090.0000	1.239
1,4-Dichlorobenzene	0.300	6962.00000	1.456	0.400	9221.00000	1.451	1.00	25048.0000	1.344
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	1.00	1487.00000	0.03490
Benzene	NA	NA	NA	0.400	12695.0000	0.8923	1.00	33087.0000	0.7776
Bromodichloromethane	NA	NA	NA	0.400	4443.00000	0.3123	1.00	12093.0000	0.2842
Bromomethane	NA	NA	NA	0.400	2927.00000	0.2057	1.00	8845.00000	0.2079
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	20458.0000	0.4808
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	10387.0000	0.2441
Chloroethane	NA	NA	NA	0.400	2123.00000	0.1492	1.00	7292.00000	0.1714
Dibromochloromethane	NA	NA	NA	0.400	2369.00000	0.2154	1.00	7410.00000	0.2270
Methyl Tert Butyl Ether	NA	NA	NA	0.400	5604.00000	0.3939	1.00	17178.0000	0.4037
Methylene Chloride	NA	NA	NA	0.400	12173.0000	0.8556	1.00	20363.0000	0.4786
Styrene	NA	NA	NA	NA	NA	NA	1.00	23705.0000	0.7262
Tetrachloroethene	NA	NA	NA	0.400	3276.00000	0.2978	1.00	8282.00000	0.2537
Trichloroethene	NA	NA	NA	0.400	2984.00000	0.2097	1.00	7952.00000	0.1869
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	2711.00000	0.1905	1.00	8903.00000	0.2092
cis-1,3-Dichloropropene	NA	NA	NA	0.400	3607.00000	0.2535	1.00	11014.0000	0.2589
m-,p-Xylene	NA	NA	NA	0.800	10614.0000	0.4825	2.00	30411.0000	0.4658
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	13924.0000	0.4265
trans-1,2-Dichloroethene	NA	NA	NA	0.400	2956.00000	0.2078	1.00	7897.00000	0.1856

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-05			WG249872-06			WG249872-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	73426.0000	0.3307	20.0	296889.000	0.3751	50.0	875967.000	0.4080
1,2-Dichloropropane	5.00	44962.0000	0.2025	20.0	165544.000	0.2092	50.0	469705.000	0.2188
Chloroform	5.00	101921.000	0.4590	20.0	390963.000	0.4940	50.0	1098963.00	0.5118
Ethylbenzene	5.00	75835.0000	0.4432	20.0	291384.000	0.4753	50.0	855098.000	0.5166
Toluene	5.00	206972.000	1.210	20.0	776896.000	1.267	50.0	2220874.00	1.342
Vinyl Chloride	5.00	55168.0000	0.2485	20.0	237945.000	0.3006	50.0	586472.000	0.2731
1,1,2,2-Tetrachloroethane	5.00	35441.0000	0.3599	20.0	134784.000	0.3621	50.0	361810.000	0.3586
1,1-Dichloroethane	5.00	91449.0000	0.4119	20.0	346748.000	0.4381	50.0	982845.000	0.4578
Bromoform	5.00	24306.0000	0.1421	20.0	111372.000	0.1817	50.0	308290.000	0.1862
Chlorobenzene	5.00	144875.000	0.8467	20.0	542648.000	0.8852	50.0	1536707.00	0.9283
Chloromethane	5.00	64135.0000	0.2888	20.0	264153.000	0.3337	50.0	659813.000	0.3073
1,1,1-Trichloroethane	5.00	85535.0000	0.3852	20.0	353270.000	0.4463	50.0	1060915.00	0.4941
1,1,2-Trichloroethane	5.00	33624.0000	0.1965	20.0	124586.000	0.2032	50.0	338680.000	0.2046
1,2,4-Trichlorobenzene	5.00	87845.0000	0.8920	20.0	342517.000	0.9201	50.0	973493.000	0.9648
1,2-Dichlorobenzene	5.00	118945.000	1.208	20.0	456353.000	1.226	50.0	1288265.00	1.277
1,2-Dichloroethane	5.00	72374.0000	0.3259	20.0	278328.000	0.3517	50.0	742911.000	0.3460
1,3-Dichlorobenzene	5.00	134831.000	1.369	20.0	512510.000	1.377	50.0	1476949.00	1.464
1,4-Dichlorobenzene	5.00	138818.000	1.410	20.0	526459.000	1.414	50.0	1496412.00	1.483
1,4-Dioxane	50.0	1712.00000	0.0008000	100	3079.00000	0.0008000	200	6351.00000	0.0007000
2-Butanone	5.00	10119.0000	0.04560	20.0	37936.0000	0.04790	50.0	104719.000	0.04880
2-Hexanone	5.00	13780.0000	0.08050	20.0	55993.0000	0.09130	50.0	153546.000	0.09280
4-Methyl-2-Pentanone	5.00	7723.00000	0.03480	20.0	31426.0000	0.03970	50.0	84800.0000	0.03950
Acetone	5.00	9187.00000	0.04140	20.0	30631.0000	0.03870	50.0	78983.0000	0.03680
Acrylonitrile	5.00	9168.00000	0.04130	20.0	36958.0000	0.04670	50.0	99113.0000	0.04620
Benzene	5.00	193166.000	0.8699	20.0	711466.000	0.8989	50.0	2047087.00	0.9534
Bromodichloromethane	5.00	72153.0000	0.3250	20.0	283759.000	0.3585	50.0	779590.000	0.3631
Bromomethane	5.00	42982.0000	0.1936	20.0	150427.000	0.1901	50.0	433407.000	0.2019
Carbon Disulfide	5.00	136281.000	0.6138	20.0	576926.000	0.7289	50.0	1629993.00	0.7592
Carbon Tetrachloride	5.00	74245.0000	0.3344	20.0	323533.000	0.4088	50.0	975594.000	0.4544
Chloroethane	5.00	37590.0000	0.1693	20.0	141782.000	0.1791	50.0	386664.000	0.1801
Dibromochloromethane	5.00	43947.0000	0.2568	20.0	180891.000	0.2951	50.0	501803.000	0.3031
Methyl Tert Butyl Ether	5.00	98584.0000	0.4440	20.0	371498.000	0.4694	50.0	1023487.00	0.4767
Methylene Chloride	5.00	63825.0000	0.2874	20.0	194000.000	0.2451	50.0	526089.000	0.2450
Styrene	5.00	153759.000	0.8986	20.0	607970.000	0.9917	50.0	1744873.00	1.054
Tetrachloroethene	5.00	53161.0000	0.3107	20.0	215789.000	0.3520	50.0	632671.000	0.3822
Trichloroethene	5.00	51483.0000	0.2319	20.0	193231.000	0.2441	50.0	574353.000	0.2675
Vinyl Acetate	5.00	48834.0000	0.2199	20.0	193826.000	0.2449	50.0	536611.000	0.2499
cis-1,2-Dichloroethene	5.00	54663.0000	0.2462	20.0	202686.000	0.2561	50.0	588377.000	0.2740
cis-1,3-Dichloropropene	5.00	72138.0000	0.3249	20.0	289025.000	0.3652	50.0	820320.000	0.3821
m-,p-Xylene	10.0	193375.000	0.5651	40.0	742040.000	0.6052	100	2160563.00	0.6526
o-Xylene	5.00	90773.0000	0.5305	20.0	355940.000	0.5806	50.0	1027533.00	0.6207
trans-1,2-Dichloroethene	5.00	49921.0000	0.2248	20.0	185785.000	0.2347	50.0	553860.000	0.2580

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-08			WG249872-09			WG249872-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	1844901.00	0.4046	200	4171118.00	0.4027	NA	NA	NA
1,2-Dichloropropane	100	1018665.00	0.2234	200	2261053.00	0.2183	NA	NA	NA
Chloroform	100	2325133.00	0.5099	200	5073981.00	0.4898	NA	NA	NA
Ethylbenzene	100	1943185.00	0.5205	200	4180248.00	0.5083	NA	NA	NA
Toluene	100	4768565.00	1.277	200	10010811.0	1.217	NA	NA	NA
Vinyl Chloride	100	1018453.00	0.2233	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	868416.000	0.3688	200	1824066.00	0.3648	NA	NA	NA
1,1-Dichloroethane	100	2088847.00	0.4581	200	4616213.00	0.4457	NA	NA	NA
Bromoform	100	775730.000	0.2078	200	1624697.00	0.1976	NA	NA	NA
Chlorobenzene	100	3500774.00	0.9378	200	7356575.00	0.8946	NA	NA	NA
Chloromethane	100	1322803.00	0.2901	200	2789620.00	0.2693	NA	NA	NA
1,1,1-Trichloroethane	100	2230113.00	0.4891	200	4888261.00	0.4719	NA	NA	NA
1,1,2-Trichloroethane	100	779367.000	0.2088	200	1688582.00	0.2053	NA	NA	NA
1,2,4-Trichlorobenzene	100	2173845.00	0.9231	200	4425871.00	0.8852	NA	NA	NA
1,2-Dichlorobenzene	100	2989493.00	1.269	200	6011828.00	1.202	NA	NA	NA
1,2-Dichloroethane	100	1548524.00	0.3396	200	3310321.00	0.3196	NA	NA	NA
1,3-Dichlorobenzene	100	3492354.00	1.483	200	7033954.00	1.407	NA	NA	NA
1,4-Dichlorobenzene	100	3480417.00	1.478	200	6973813.00	1.395	NA	NA	NA
1,4-Dioxane	400	18547.0000	0.001000	600	35881.0000	0.001200	800	44101.0000	0.001100
2-Butanone	100	241378.000	0.05290	200	534216.000	0.05160	300	756176.000	0.04910
2-Hexanone	100	400822.000	0.1074	200	819435.000	0.09960	300	1249972.00	0.1037
4-Methyl-2-Pentanone	100	217085.000	0.04760	200	461814.000	0.04460	300	673386.000	0.04370
Acetone	100	172771.000	0.03790	200	368986.000	0.03560	300	492778.000	0.03200
Acrylonitrile	100	222299.000	0.04880	200	503045.000	0.04860	300	661898.000	0.04300
Benzene	100	4331776.00	0.9500	200	9315419.00	0.8993	NA	NA	NA
Bromodichloromethane	100	1708315.00	0.3746	200	3744091.00	0.3615	NA	NA	NA
Bromomethane	100	969430.000	0.2126	200	2178767.00	0.2103	NA	NA	NA
Carbon Disulfide	100	3672935.00	0.8055	200	7849495.00	0.7578	NA	NA	NA
Carbon Tetrachloride	100	2045132.00	0.4485	200	4442000.00	0.4288	NA	NA	NA
Chloroethane	100	867889.000	0.1903	200	1914928.00	0.1849	NA	NA	NA
Dibromochloromethane	100	1199284.00	0.3213	200	2587493.00	0.3147	NA	NA	NA
Methyl Tert Butyl Ether	100	2200460.00	0.4826	200	4963290.00	0.4792	NA	NA	NA
Methylene Chloride	100	1129271.00	0.2476	200	2517463.00	0.2430	NA	NA	NA
Styrene	100	4106973.00	1.100	200	8429320.00	1.025	NA	NA	NA
Tetrachloroethene	100	1364498.00	0.3655	200	2997366.00	0.3645	NA	NA	NA
Trichloroethene	100	1254555.00	0.2751	200	2802802.00	0.2706	NA	NA	NA
Vinyl Acetate	100	1142359.00	0.2505	200	2555538.00	0.2467	NA	NA	NA
cis-1,2-Dichloroethene	100	1263004.00	0.2770	200	2814758.00	0.2717	NA	NA	NA
cis-1,3-Dichloropropene	100	1804707.00	0.3958	200	3976552.00	0.3839	NA	NA	NA
m-,p-Xylene	200	4824787.00	0.6462	400	9884957.00	0.6010	NA	NA	NA
o-Xylene	100	2384256.00	0.6387	200	5067807.00	0.6163	NA	NA	NA
trans-1,2-Dichloroethene	100	1192030.00	0.2614	200	2669119.00	0.2577	NA	NA	NA

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-02			WG249872-03			WG249872-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	0.400	3508.00000	0.3189	1.00	10465.0000	0.3206

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-05			WG249872-06			WG249872-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	65243.0000	0.3813	20.0	265895.000	0.4337	50.0	731107.000	0.4417

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-08			WG249872-09			WG249872-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	1649506.00	0.4419	200	3595358.00	0.4372	NA	NA	NA

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-02			WG247666-03			WG247666-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	2.00	5138.00000	0.2078
1,2-Dichloropropane	NA	NA	NA	1.00	2850.00000	0.2410	2.00	5496.00000	0.2223
Chloroform	NA	NA	NA	1.00	6347.00000	0.5368	2.00	11688.0000	0.4727
Ethylbenzene	NA	NA	NA	1.00	4720.00000	0.4838	2.00	8964.00000	0.4437
Toluene	NA	NA	NA	1.00	13636.0000	1.398	2.00	25218.0000	1.248
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	5534.00000	0.2238
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	2518.00000	0.4757	2.00	4949.00000	0.4528
1,1-Dichloroethane	NA	NA	NA	1.00	6371.00000	0.5388	2.00	11640.0000	0.4707
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	1.00	10158.0000	1.041	2.00	19220.0000	0.9514
Chloromethane	NA	NA	NA	NA	NA	NA	2.00	7223.00000	0.2921
1,1,1-Trichloroethane	NA	NA	NA	1.00	5315.00000	0.4495	2.00	10793.0000	0.4365
1,1,2-Trichloroethane	NA	NA	NA	1.00	2192.00000	0.2247	2.00	5063.00000	0.2506
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	4772.00000	0.9015	2.00	8488.00000	0.7765
1,2-Dichlorobenzene	NA	NA	NA	1.00	7214.00000	1.363	2.00	13493.0000	1.234
1,2-Dichloroethane	NA	NA	NA	1.00	4936.00000	0.4175	2.00	9031.00000	0.3652
1,3-Dichlorobenzene	NA	NA	NA	1.00	8149.00000	1.540	2.00	13881.0000	1.270
1,4-Dichlorobenzene	NA	NA	NA	1.00	9124.00000	1.724	2.00	15805.0000	1.446
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	1.00	13062.0000	1.105	2.00	24454.0000	0.9889
Bromodichloromethane	NA	NA	NA	1.00	3791.00000	0.3206	2.00	7107.00000	0.2874
Bromomethane	NA	NA	NA	NA	NA	NA	2.00	4289.00000	0.1735
Carbon Disulfide	NA	NA	NA	1.00	10373.0000	0.8773	2.00	18405.0000	0.7443
Carbon Tetrachloride	NA	NA	NA	1.00	4530.00000	0.3831	2.00	8109.00000	0.3279
Chloroethane	NA	NA	NA	NA	NA	NA	2.00	3688.00000	0.1491
Dibromochloromethane	NA	NA	NA	1.00	2425.00000	0.2486	2.00	5462.00000	0.2704
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	16418.0000	0.6640
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	9783.00000	0.3956
Styrene	NA	NA	NA	1.00	7337.00000	0.7520	2.00	14376.0000	0.7116
Tetrachloroethene	NA	NA	NA	1.00	3147.00000	0.3226	2.00	5504.00000	0.2725
Trichloroethene	NA	NA	NA	1.00	3902.00000	0.3300	2.00	7125.00000	0.2881
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	12468.0000	0.5042
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3356.00000	0.2838	2.00	6567.00000	0.2656
cis-1,3-Dichloropropene	NA	NA	NA	1.00	3996.00000	0.3380	2.00	8421.00000	0.3406
m-,p-Xylene	1.00	6218.00000	0.5264	2.00	11873.0000	0.6085	4.00	21822.0000	0.5401
o-Xylene	NA	NA	NA	1.00	4955.00000	0.5079	2.00	9265.00000	0.4586
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3430.00000	0.2901	2.00	6441.00000	0.2605

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-05			WG247666-06			WG247666-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	14875.0000	0.2351	10.0	31107.0000	0.2406	20.0	68490.0000	0.2678
1,2-Dichloropropane	5.00	15882.0000	0.2510	10.0	30747.0000	0.2378	20.0	65763.0000	0.2572
Chloroform	5.00	30945.0000	0.4891	10.0	62326.0000	0.4820	20.0	130336.000	0.5097
Ethylbenzene	5.00	24930.0000	0.4774	10.0	52348.0000	0.4926	20.0	111138.000	0.5352
Toluene	5.00	71672.0000	1.373	10.0	143297.000	1.349	20.0	302742.000	1.458
Vinyl Chloride	5.00	13539.0000	0.2140	10.0	25395.0000	0.1964	20.0	55767.0000	0.2181
1,1,2,2-Tetrachloroethane	5.00	14825.0000	0.5233	10.0	28991.0000	0.4976	20.0	57588.0000	0.5098
1,1-Dichloroethane	5.00	32792.0000	0.5183	10.0	64311.0000	0.4974	20.0	134603.000	0.5264
Bromoform	5.00	8692.00000	0.1665	10.0	17608.0000	0.1657	20.0	37303.0000	0.1796
Chlorobenzene	5.00	50583.0000	0.9687	10.0	101298.000	0.9532	20.0	204989.000	0.9871
Chloromethane	5.00	18421.0000	0.2912	10.0	36719.0000	0.2840	20.0	77875.0000	0.3045
1,1,1-Trichloroethane	5.00	29429.0000	0.4652	10.0	59656.0000	0.4614	20.0	129329.000	0.5057
1,1,2-Trichloroethane	5.00	13767.0000	0.2636	10.0	27062.0000	0.2547	20.0	53720.0000	0.2587
1,2,4-Trichlorobenzene	5.00	23749.0000	0.8383	10.0	48809.0000	0.8378	20.0	97909.0000	0.8668
1,2-Dichlorobenzene	5.00	36681.0000	1.295	10.0	73297.0000	1.258	20.0	146664.000	1.298
1,2-Dichloroethane	5.00	24924.0000	0.3940	10.0	49332.0000	0.3815	20.0	97816.0000	0.3825
1,3-Dichlorobenzene	5.00	40247.0000	1.421	10.0	80426.0000	1.381	20.0	161676.000	1.431
1,4-Dichlorobenzene	5.00	41186.0000	1.454	10.0	80171.0000	1.376	20.0	163360.000	1.446
1,4-Dioxane	NA	NA	NA	100	1819.00000	0.001400	150	2945.00000	0.001500
2-Butanone	5.00	8046.00000	0.1272	10.0	16062.0000	0.1242	20.0	29863.0000	0.1168
2-Hexanone	5.00	10139.0000	0.1942	10.0	21872.0000	0.2058	20.0	41727.0000	0.2009
4-Methyl-2-Pentanone	5.00	5269.00000	0.08330	10.0	10844.0000	0.08390	20.0	21972.0000	0.08590
Acetone	5.00	9707.00000	0.1534	10.0	14059.0000	0.1087	20.0	22443.0000	0.08780
Acrylonitrile	5.00	5224.00000	0.08260	10.0	10815.0000	0.08360	20.0	21781.0000	0.08520
Benzene	5.00	65434.0000	1.034	10.0	132547.000	1.025	20.0	277331.000	1.085
Bromodichloromethane	5.00	20052.0000	0.3170	10.0	41393.0000	0.3201	20.0	87611.0000	0.3426
Bromomethane	5.00	9732.00000	0.1538	10.0	19522.0000	0.1510	20.0	40211.0000	0.1572
Carbon Disulfide	5.00	53202.0000	0.8410	10.0	102702.000	0.7943	20.0	223592.000	0.8744
Carbon Tetrachloride	5.00	23649.0000	0.3738	10.0	49487.0000	0.3827	20.0	112791.000	0.4411
Chloroethane	5.00	10013.0000	0.1583	10.0	21370.0000	0.1653	20.0	47599.0000	0.1861
Dibromochloromethane	5.00	15353.0000	0.2940	10.0	31988.0000	0.3010	20.0	67726.0000	0.3261
Methyl Tert Butyl Ether	5.00	45299.0000	0.7160	10.0	87750.0000	0.6786	20.0	176083.000	0.6886
Methylene Chloride	5.00	19874.0000	0.3141	10.0	39027.0000	0.3018	20.0	71004.0000	0.2777
Styrene	5.00	44443.0000	0.8511	10.0	94385.0000	0.8882	20.0	200390.000	0.9649
Tetrachloroethene	5.00	15523.0000	0.2973	10.0	30586.0000	0.2878	20.0	64846.0000	0.3123
Trichloroethene	5.00	19827.0000	0.3134	10.0	39948.0000	0.3089	20.0	86385.0000	0.3378
Vinyl Acetate	5.00	33411.0000	0.5281	10.0	74080.0000	0.5729	20.0	139377.000	0.5450
cis-1,2-Dichloroethene	5.00	17946.0000	0.2837	10.0	35963.0000	0.2781	20.0	77229.0000	0.3020
cis-1,3-Dichloropropene	5.00	23535.0000	0.3720	10.0	48434.0000	0.3746	20.0	103271.000	0.4038
m-,p-Xylene	10.0	62268.0000	0.5962	20.0	125789.000	0.5919	40.0	267461.000	0.6439
o-Xylene	5.00	28187.0000	0.5398	10.0	58998.0000	0.5552	20.0	125084.000	0.6023
trans-1,2-Dichloroethene	5.00	17259.0000	0.2728	10.0	35075.0000	0.2713	20.0	76350.0000	0.2986

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-08			WG247666-09			WG247666-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	183254.000	0.2776	100	360133.000	0.2618	200	705735.000	0.2396
1,2-Dichloropropane	50.0	176504.000	0.2673	100	342111.000	0.2487	200	682026.000	0.2315
Chloroform	50.0	338189.000	0.5122	100	651552.000	0.4737	200	1273387.00	0.4323
Ethylbenzene	50.0	294496.000	0.5393	100	576165.000	0.5103	200	1096359.00	0.4602
Toluene	50.0	799517.000	1.464	100	1563303.00	1.385	200	2968645.00	1.246
Vinyl Chloride	50.0	132627.000	0.2009	100	243329.000	0.1769	NA	NA	NA
1,1,2,2-Tetrachloroethane	50.0	159484.000	0.5309	100	289066.000	0.4767	200	595015.000	0.4702
1,1-Dichloroethane	50.0	354244.000	0.5366	100	685878.000	0.4987	200	1339085.00	0.4546
Bromoform	50.0	110668.000	0.2027	100	216193.000	0.1915	200	431684.000	0.1812
Chlorobenzene	50.0	548531.000	1.005	100	1060166.00	0.9390	200	2023035.00	0.8492
Chloromethane	50.0	199178.000	0.3017	100	382956.000	0.2784	200	726280.000	0.2466
1,1,1-Trichloroethane	50.0	338064.000	0.5121	100	657718.000	0.4782	200	1257952.00	0.4271
1,1,2-Trichloroethane	50.0	145373.000	0.2662	100	278880.000	0.2470	200	555444.000	0.2332
1,2,4-Trichlorobenzene	50.0	274370.000	0.9133	100	523059.000	0.8625	200	1007517.00	0.7962
1,2-Dichlorobenzene	50.0	398621.000	1.327	100	760464.000	1.254	200	1460417.00	1.154
1,2-Dichloroethane	50.0	257877.000	0.3906	100	482650.000	0.3509	200	941425.000	0.3196
1,3-Dichlorobenzene	50.0	437305.000	1.456	100	846105.000	1.395	200	1589102.00	1.256
1,4-Dichlorobenzene	50.0	440787.000	1.467	100	848613.000	1.399	200	1592311.00	1.258
1,4-Dioxane	200	4578.00000	0.001700	400	10812.0000	0.002000	800	25027.0000	0.002100
2-Butanone	50.0	82648.0000	0.1252	100	145385.000	0.1057	200	326858.000	0.1110
2-Hexanone	50.0	125489.000	0.2298	100	213276.000	0.1889	200	454878.000	0.1909
4-Methyl-2-Pentanone	50.0	64775.0000	0.09810	100	115477.000	0.08400	200	253038.000	0.08590
Acetone	50.0	54075.0000	0.08190	100	97297.0000	0.07070	200	205499.000	0.06980
Acrylonitrile	50.0	61336.0000	0.09290	100	118174.000	0.08590	200	260935.000	0.08860
Benzene	50.0	728751.000	1.104	100	1419556.00	1.032	200	2723816.00	0.9247
Bromodichloromethane	50.0	236809.000	0.3587	100	462577.000	0.3363	200	918456.000	0.3118
Bromomethane	50.0	99932.0000	0.1514	100	193021.000	0.1403	200	346491.000	0.1176
Carbon Disulfide	50.0	590944.000	0.8951	100	1186212.00	0.8624	200	2299960.00	0.7808
Carbon Tetrachloride	50.0	304944.000	0.4619	100	604504.000	0.4395	200	1171227.00	0.3976
Chloroethane	50.0	117147.000	0.1774	100	231785.000	0.1685	200	440066.000	0.1494
Dibromochloromethane	50.0	194209.000	0.3556	100	380562.000	0.3371	200	766916.000	0.3219
Methyl Tert Butyl Ether	50.0	480418.000	0.7277	100	932210.000	0.6777	200	1953709.00	0.6633
Methylene Chloride	50.0	180130.000	0.2728	100	346971.000	0.2523	200	671193.000	0.2279
Styrene	50.0	554391.000	1.015	100	1092334.00	0.9675	200	2071195.00	0.8694
Tetrachloroethene	50.0	174803.000	0.3201	100	339043.000	0.3003	200	657621.000	0.2760
Trichloroethene	50.0	230332.000	0.3489	100	455903.000	0.3315	200	886102.000	0.3008
Vinyl Acetate	50.0	388173.000	0.5880	100	744859.000	0.5415	200	1543838.00	0.5241
cis-1,2-Dichloroethene	50.0	207440.000	0.3142	100	404406.000	0.2940	200	799214.000	0.2713
cis-1,3-Dichloropropene	50.0	283058.000	0.4287	100	550976.000	0.4006	200	1093319.00	0.3712
m-,p-Xylene	100	719081.000	0.6584	200	1410638.00	0.6247	400	2617273.00	0.5493
o-Xylene	50.0	339346.000	0.6214	100	664243.000	0.5883	200	1259660.00	0.5288
trans-1,2-Dichloroethene	50.0	203609.000	0.3084	100	399507.000	0.2905	200	782075.000	0.2655

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	1000	27703.0000	0.002000
2-Butanone	300	425903.000	0.1029
2-Hexanone	300	582879.000	0.1753
4-Methyl-2-Pentanone	300	340663.000	0.08230
Acetone	300	261331.000	0.06310
Acrylonitrile	300	323168.000	0.07810
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-02			WG247666-03			WG247666-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	3849.00000	0.3945	2.00	7618.00000	0.3771

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INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-05			WG247666-06			WG247666-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	22626.0000	0.4333	10.0	46688.0000	0.4393	20.0	98322.0000	0.4734

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INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-08			WG247666-09			WG247666-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	265653.000	0.4865	100	508231.000	0.4501	200	997490.000	0.4187

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 14-AUG-07 16:27
Column ID: F

Analyte	WG247666-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 09/12/2007 Sample ID: WG249872-11
Instrument ID: HPMS6 Run Time: 17:45 Method: 8260B
File ID: 6M68879 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG249872 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	21.1	ug/L	0.417	5.40	25	
1,2-Dichloropropane	CCC	20.0	21.8	ug/L	0.222	9.20	25	
Chloroform	CCC	20.0	21.1	ug/L	0.507	5.40	25	
Ethylbenzene	CCC	20.0	22.4	ug/L	0.518	11.9	25	
Toluene	CCC	20.0	22.7	ug/L	1.37	13.4	25	
Vinyl Chloride	CCC	20.0	19.1	ug/L	0.287	4.30	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	21.7	ug/L	0.381	8.50	25	
1,1-Dichloroethane	SPCC	20.0	21.6	ug/L	0.462	8.00	25	
Bromoform	SPCC	20.0	17.9	ug/L	0.169	10.6	25	
Chlorobenzene	SPCC	20.0	21.2	ug/L	0.933	5.80	25	
Chloromethane	SPCC	20.0	20.4	ug/L	0.329	2.20	25	
1,1,1-Trichloroethane		20.0	19.5	ug/L	0.472	2.30	25	
1,1,2-Trichloroethane		20.0	21.9	ug/L	0.214	9.40	25	
1,2,4-Trichlorobenzene		20.0	21.7	ug/L	0.970	8.70	25	
1,2-Dichlorobenzene		20.0	21.7	ug/L	1.29	8.40	25	
1,2-Dichloroethane		20.0	20.5	ug/L	0.343	2.50	25	
1,3-Dichlorobenzene		20.0	20.9	ug/L	1.44	4.70	25	
1,4-Dichlorobenzene		20.0	20.4	ug/L	1.46	2.00	25	
1,4-Dioxane		200	221	ug/L	0.00210	10.5	25	
2-Butanone		20.0	22.8	ug/L	0.0561	13.8	25	
2-Hexanone		20.0	19.7	ug/L	0.0943	1.60	25	
4-Methyl-2-Pentanone		20.0	18.9	ug/L	0.0393	5.60	25	
Acetone		20.0	24.1	ug/L	0.0446	20.4	25	
Acrylonitrile		20.0	22.3	ug/L	0.0492	11.4	25	
Benzene		20.0	21.8	ug/L	0.974	9.20	25	
Bromodichloromethane		20.0	21.6	ug/L	0.368	8.20	25	
Bromomethane		20.0	22.2	ug/L	0.226	11.1	25	
Carbon Disulfide		20.0	19.0	ug/L	0.729	4.80	25	
Carbon Tetrachloride		20.0	19.7	ug/L	0.432	1.30	25	
Dibromochloromethane		20.0	19.2	ug/L	0.294	3.90	25	
Chloroethane		20.0	22.5	ug/L	0.197	12.4	25	
cis-1,2-Dichloroethene		20.0	22.8	ug/L	0.281	14.0	25	
cis-1,3-Dichloropropene		20.0	19.3	ug/L	0.368	3.40	25	
Methylene Chloride		20.0	20.5	ug/L	0.260	2.70	25	
Methyl Tert Butyl Ether		20.0	21.8	ug/L	0.492	9.20	25	
Styrene		20.0	21.8	ug/L	1.05	8.80	25	
Tetrachloroethene		20.0	22.6	ug/L	0.376	13.2	25	
trans-1,2-Dichloroethene		20.0	21.8	ug/L	0.254	8.90	25	
trans-1,3-Dichloropropene		20.0	20.3	ug/L	0.403	1.60	25	
Trichloroethene		20.0	22.5	ug/L	0.271	12.7	25	
Vinyl Acetate		20.0	28.6	ug/L	0.346	42.8	25	*
Xylenes		60.0	66.8	ug/L	0.631	11.4	25	

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 09/12/2007 Sample ID: WG249872-11
Instrument ID: HPMS6 Run Time: 17:45 Method: 8260B
File ID: 6M68879 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG249872 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
m-,p-Xylene		40.0	45.3	ug/L	0.650	13.1	25	
o-Xylene		20.0	21.6	ug/L	0.613	7.80	25	
1,2-Dichloroethene		40.0	44.6	ug/L	0.267	11.4	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (ALT)
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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 08/14/2007 Sample ID: WG247666-12
Instrument ID: HPMS9 Run Time: 18:01 Method: 8260B
File ID: 9M56020 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	23.7	ug/kg	0.293	18.6	25	
1,2-Dichloropropane	CCC	20.0	22.8	ug/kg	0.279	14.0	25	
Chloroform	CCC	20.0	21.0	ug/kg	0.513	4.90	25	
Ethylbenzene	CCC	20.0	22.8	ug/kg	0.561	13.8	25	
Toluene	CCC	20.0	22.4	ug/kg	1.53	11.9	25	
Vinyl Chloride	CCC	20.0	22.6	ug/kg	0.232	13.2	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.3	ug/kg	0.549	11.5	25	
1,1-Dichloroethane	SPCC	20.0	21.1	ug/kg	0.534	5.60	25	
Bromoform	SPCC	20.0	21.1	ug/kg	0.191	5.40	25	
Chlorobenzene	SPCC	20.0	21.7	ug/kg	1.04	8.50	25	
Chloromethane	SPCC	20.0	24.3	ug/kg	0.347	21.7	25	
1,1,1-Trichloroethane		20.0	21.4	ug/kg	0.501	7.20	25	
1,1,2-Trichloroethane		20.0	22.5	ug/kg	0.281	12.5	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.908	7.00	25	
1,2-Dichlorobenzene		20.0	21.6	ug/kg	1.37	7.80	25	
1,2-Dichloroethane		20.0	20.2	ug/kg	0.380	1.20	25	
1,3-Dichlorobenzene		20.0	21.8	ug/kg	1.52	8.90	25	
1,4-Dichlorobenzene		20.0	21.3	ug/kg	1.54	6.50	25	
2-Butanone		20.0	20.3	ug/kg	0.118	1.50	25	
2-Hexanone		20.0	21.8	ug/kg	0.216	9.00	25	
4-Methyl-2-Pentanone		20.0	22.7	ug/kg	0.0980	13.7	25	
Acetone		20.0	22.2	ug/kg	0.0985	11.0	25	
Acrylonitrile		20.0	21.2	ug/kg	0.0903	5.90	25	
Benzene		20.0	22.2	ug/kg	1.15	11.1	25	
Bromodichloromethane		20.0	22.1	ug/kg	0.358	10.3	25	
Bromomethane		20.0	22.7	ug/kg	0.170	13.6	25	
Carbon Disulfide		20.0	19.2	ug/kg	0.802	3.80	25	
Carbon Tetrachloride		20.0	22.1	ug/kg	0.442	10.3	25	
Dibromochloromethane		20.0	22.1	ug/kg	0.339	10.6	25	
Chloroethane		20.0	22.9	ug/kg	0.189	14.3	25	
cis-1,2-Dichloroethene		20.0	22.8	ug/kg	0.327	14.2	25	
cis-1,3-Dichloropropene		20.0	22.5	ug/kg	0.425	12.3	25	
Methylene Chloride		20.0	21.0	ug/kg	0.297	5.10	25	
Methyl Tert Butyl Ether		20.0	21.4	ug/kg	0.736	6.90	25	
Styrene		20.0	23.7	ug/kg	1.04	18.4	25	
Tetrachloroethene		20.0	22.2	ug/kg	0.332	11.2	25	
trans-1,2-Dichloroethene		20.0	22.0	ug/kg	0.311	10.1	25	
trans-1,3-Dichloropropene		20.0	20.4	ug/kg	0.443	2.10	25	
Trichloroethene		20.0	23.2	ug/kg	0.371	15.9	25	
Vinyl Acetate		20.0	18.1	ug/kg	0.491	9.60	25	
Xylenes		60.0	68.4	ug/kg	0.653	14.0	25	
1,2-Dichloroethene		40.0	44.9	ug/kg	0.319	12.1	25	

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 08/14/2007 Sample ID: WG247666-12
Instrument ID: HPMS9 Run Time: 18:01 Method: 8260B
File ID: 9M56020 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	22.9	ug/kg	0.630	14.5	25	
m-,p-Xylene		40.0	45.5	ug/kg	0.675	13.8	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (ALT)
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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 08/14/2007 Sample ID: WG247666-13
Instrument ID: HPMS9 Run Time: 18:32 Method: 8260B
File ID: 9M56021 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,4-Dioxane		200	209	ug/kg	0.00250	4.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (ALT)
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Report generated 10/08/2007 12:33

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251483-02
Instrument ID: HPMS6 Run Time: 06:58 Method: 8260B
File ID: 6M69460 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG251484 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	52.7	ug/L	0.422	5.33	20	
1,2-Dichloropropane	CCC	50.0	54.6	ug/L	0.222	9.29	20	
Chloroform	CCC	50.0	53.9	ug/L	0.518	7.76	20	
Ethylbenzene	CCC	50.0	56.0	ug/L	0.518	12.1	20	
Toluene	CCC	50.0	56.2	ug/L	1.36	12.5	20	
Vinyl Chloride	CCC	50.0	40.2	ug/L	0.227	19.6	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.1	ug/L	0.366	4.27	20	
1,1-Dichloroethane	SPCC	50.0	54.7	ug/L	0.468	9.42	20	
Bromoform	SPCC	50.0	46.7	ug/L	0.183	6.69	20	
Chlorobenzene	SPCC	50.0	52.2	ug/L	0.921	4.43	20	
Chloromethane	SPCC	50.0	36.2	ug/L	0.234	27.5	20	*
1,1,1-Trichloroethane		50.0	51.5	ug/L	0.507	3.06	20	
1,1,2-Trichloroethane		50.0	52.0	ug/L	0.204	3.93	20	
1,2,4-Trichlorobenzene		50.0	53.4	ug/L	0.952	6.70	20	
1,2-Dichlorobenzene		50.0	52.8	ug/L	1.26	5.59	20	
1,2-Dichloroethane		50.0	52.1	ug/L	0.349	4.29	20	
1,3-Dichlorobenzene		50.0	53.1	ug/L	1.46	6.21	20	
1,4-Dichlorobenzene		50.0	51.8	ug/L	1.48	3.53	20	
1,4-Dioxane		200	142	ug/L	0.000600	29.2	20	*
2-Butanone		50.0	48.0	ug/L	0.0474	3.97	20	
2-Hexanone		50.0	47.7	ug/L	0.0915	4.56	20	
4-Methyl-2-Pentanone		50.0	46.8	ug/L	0.0390	6.43	20	
Acetone		50.0	48.2	ug/L	0.0357	3.58	20	
Acrylonitrile		50.0	51.7	ug/L	0.0457	3.32	20	
Benzene		50.0	56.3	ug/L	1.00	12.6	20	
Bromodichloromethane		50.0	54.7	ug/L	0.372	9.32	20	
Bromomethane		50.0	39.2	ug/L	0.159	21.7	20	*
Carbon Disulfide		50.0	51.1	ug/L	0.783	2.14	20	
Carbon Tetrachloride		50.0	51.5	ug/L	0.465	3.02	20	
Dibromochloromethane		50.0	49.7	ug/L	0.311	0.518	20	
Chloroethane		50.0	51.0	ug/L	0.179	2.07	20	
cis-1,2-Dichloroethene		50.0	56.1	ug/L	0.277	12.3	20	
cis-1,3-Dichloropropene		50.0	50.5	ug/L	0.388	1.02	20	
Methylene Chloride		50.0	51.1	ug/L	0.252	2.22	20	
Methyl Tert Butyl Ether		50.0	55.0	ug/L	0.495	10.0	20	
Styrene		50.0	53.7	ug/L	1.04	7.31	20	
Tetrachloroethene		50.0	57.9	ug/L	0.385	15.7	20	
trans-1,2-Dichloroethene		50.0	57.4	ug/L	0.267	14.8	20	
trans-1,3-Dichloropropene		50.0	57.4	ug/L	0.455	14.8	20	
Trichloroethene		50.0	57.0	ug/L	0.275	14.0	20	
Vinyl Acetate		50.0	29.8	ug/L	0.144	40.5	20	*
Xylenes		150	166	ug/L	0.629	10.5	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251483-02
Instrument ID: HPMS6 Run Time: 06:58 Method: 8260B
File ID: 6M69460 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG251484 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	114	ug/L	0.272	13.6	20	
o-Xylene		50.0	54.2	ug/L	0.617	8.46	20	
m-,p-Xylene		100	112	ug/L	0.641	11.6	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/21/2007 Sample ID: WG250649-02
Instrument ID: HPMS9 Run Time: 09:55 Method: 8260B
File ID: 9M56901 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG250650 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	50.2	ug/kg	0.248	0.351	20	
1,2-Dichloropropane	CCC	50.0	49.6	ug/kg	0.243	0.782	20	
Chloroform	CCC	50.0	48.2	ug/kg	0.471	3.61	20	
Ethylbenzene	CCC	50.0	53.5	ug/kg	0.528	7.08	20	
Toluene	CCC	50.0	49.5	ug/kg	1.35	0.957	20	
Vinyl Chloride	CCC	50.0	47.2	ug/kg	0.193	5.66	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	53.7	ug/kg	0.529	7.45	20	
1,1-Dichloroethane	SPCC	50.0	45.5	ug/kg	0.460	8.98	20	
Bromoform	SPCC	50.0	66.9	ug/kg	0.242	33.7	20	*
Chlorobenzene	SPCC	50.0	51.7	ug/kg	0.994	3.39	20	
Chloromethane	SPCC	50.0	40.6	ug/kg	0.232	18.9	20	
1,1,1-Trichloroethane		50.0	50.7	ug/kg	0.474	1.43	20	
1,1,2-Trichloroethane		50.0	53.8	ug/kg	0.269	7.67	20	
1,2,4-Trichlorobenzene		50.0	56.6	ug/kg	0.961	13.2	20	
1,2-Dichlorobenzene		50.0	55.1	ug/kg	1.40	10.3	20	
1,2-Dichloroethane		50.0	46.7	ug/kg	0.351	6.55	20	
1,3-Dichlorobenzene		50.0	54.3	ug/kg	1.51	8.69	20	
1,4-Dichlorobenzene		50.0	53.0	ug/kg	1.53	5.94	20	
1,4-Dioxane		200	241	ug/kg	0.00220	20.3	20	*
2-Butanone		50.0	46.7	ug/kg	0.108	6.62	20	
2-Hexanone		50.0	50.4	ug/kg	0.200	0.819	20	
4-Methyl-2-Pentanone		50.0	55.3	ug/kg	0.0954	10.7	20	
Acetone		50.0	45.4	ug/kg	0.0731	9.11	20	
Acrylonitrile		50.0	47.7	ug/kg	0.0813	4.62	20	
Benzene		50.0	49.3	ug/kg	1.02	1.42	20	
Bromodichloromethane		50.0	53.7	ug/kg	0.348	7.42	20	
Bromomethane		50.0	52.5	ug/kg	0.157	5.08	20	
Carbon Disulfide		50.0	48.1	ug/kg	0.802	3.83	20	
Carbon Tetrachloride		50.0	55.7	ug/kg	0.447	11.4	20	
Dibromochloromethane		50.0	61.4	ug/kg	0.377	22.8	20	*
Chloroethane		50.0	46.2	ug/kg	0.153	7.54	20	
cis-1,2-Dichloroethene		50.0	52.1	ug/kg	0.299	4.28	20	
cis-1,3-Dichloropropene		50.0	53.8	ug/kg	0.407	7.53	20	
Methylene Chloride		50.0	47.1	ug/kg	0.254	5.76	20	
Methyl Tert Butyl Ether		50.0	51.7	ug/kg	0.712	3.46	20	
Styrene		50.0	58.9	ug/kg	1.03	17.9	20	
Tetrachloroethene		50.0	52.8	ug/kg	0.316	5.70	20	
trans-1,2-Dichloroethene		50.0	50.4	ug/kg	0.284	0.779	20	
trans-1,3-Dichloropropene		50.0	52.0	ug/kg	0.451	3.95	20	
Trichloroethene		50.0	56.3	ug/kg	0.360	12.5	20	
Vinyl Acetate		50.0	34.6	ug/kg	0.376	30.9	20	*
Xylenes		150	164	ug/kg	0.628	9.23	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/21/2007 Sample ID: WG250649-02
Instrument ID: HPMS9 Run Time: 09:55 Method: 8260B
File ID: 9M56901 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG250650 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	103	ug/kg	0.292	2.53	20	
o-Xylene		50.0	55.9	ug/kg	0.615	11.8	20	
m-,p-Xylene		100	108	ug/kg	0.641	7.97	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/25/2007 Sample ID: WG250914-02
Instrument ID: HPMS9 Run Time: 09:52 Method: 8260B
File ID: 9M56962 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG250915 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	46.0	ug/kg	0.227	8.03	20	
1,2-Dichloropropane	CCC	50.0	48.5	ug/kg	0.237	3.06	20	
Chloroform	CCC	50.0	47.2	ug/kg	0.461	5.63	20	
Ethylbenzene	CCC	50.0	51.0	ug/kg	0.503	1.98	20	
Toluene	CCC	50.0	48.5	ug/kg	1.32	2.95	20	
Vinyl Chloride	CCC	50.0	51.8	ug/kg	0.213	3.68	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.2	ug/kg	0.484	1.60	20	
1,1-Dichloroethane	SPCC	50.0	44.0	ug/kg	0.444	12.0	20	
Bromoform	SPCC	50.0	58.5	ug/kg	0.212	17.1	20	
Chlorobenzene	SPCC	50.0	49.2	ug/kg	0.946	1.63	20	
Chloromethane	SPCC	50.0	43.7	ug/kg	0.250	12.6	20	
1,1,1-Trichloroethane		50.0	48.6	ug/kg	0.454	2.82	20	
1,1,2-Trichloroethane		50.0	49.6	ug/kg	0.248	0.865	20	
1,2,4-Trichlorobenzene		50.0	54.0	ug/kg	0.916	7.91	20	
1,2-Dichlorobenzene		50.0	50.6	ug/kg	1.29	1.24	20	
1,2-Dichloroethane		50.0	44.3	ug/kg	0.333	11.3	20	
1,3-Dichlorobenzene		50.0	49.9	ug/kg	1.39	0.264	20	
1,4-Dichlorobenzene		50.0	49.4	ug/kg	1.43	1.18	20	
1,4-Dioxane		200	229	ug/kg	0.00210	14.6	20	
2-Butanone		50.0	45.2	ug/kg	0.105	9.67	20	
2-Hexanone		50.0	47.8	ug/kg	0.189	4.40	20	
4-Methyl-2-Pentanone		50.0	54.0	ug/kg	0.0930	7.94	20	
Acetone		50.0	43.1	ug/kg	0.0697	13.9	20	
Acrylonitrile		50.0	46.7	ug/kg	0.0797	6.58	20	
Benzene		50.0	52.0	ug/kg	1.08	3.96	20	
Bromodichloromethane		50.0	50.9	ug/kg	0.330	1.87	20	
Bromomethane		50.0	54.1	ug/kg	0.161	8.15	20	
Carbon Disulfide		50.0	45.8	ug/kg	0.764	8.42	20	
Carbon Tetrachloride		50.0	53.5	ug/kg	0.429	7.08	20	
Dibromochloromethane		50.0	55.2	ug/kg	0.339	10.3	20	
Chloroethane		50.0	46.1	ug/kg	0.152	7.77	20	
cis-1,2-Dichloroethene		50.0	51.3	ug/kg	0.294	2.55	20	
cis-1,3-Dichloropropene		50.0	52.3	ug/kg	0.396	4.66	20	
Methylene Chloride		50.0	44.5	ug/kg	0.240	11.1	20	
Methyl Tert Butyl Ether		50.0	47.5	ug/kg	0.654	4.90	20	
Styrene		50.0	55.3	ug/kg	0.971	10.6	20	
Tetrachloroethene		50.0	51.9	ug/kg	0.310	3.82	20	
trans-1,2-Dichloroethene		50.0	48.7	ug/kg	0.275	2.53	20	
trans-1,3-Dichloropropene		50.0	48.2	ug/kg	0.419	3.52	20	
Trichloroethene		50.0	54.6	ug/kg	0.349	9.22	20	
Vinyl Acetate		50.0	25.7	ug/kg	0.279	48.7	20	*
Xylenes		150	158	ug/kg	0.602	5.20	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/25/2007 Sample ID: WG250914-02
Instrument ID: HPMS9 Run Time: 09:52 Method: 8260B
File ID: 9M56962 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG250915 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
m-,p-Xylene		100	105	ug/kg	0.622	4.88	20	
o-Xylene		50.0	52.9	ug/kg	0.583	5.85	20	
1,2-Dichloroethene		100	100	ug/kg	0.285	0.0111	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (CCV)
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KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS9
Workgroup (AAB#): WG250650

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	300415	546089	660212
Upper Limit	NA	NA	600830	1092178	1320424
Lower Limit	NA	NA	150208	273045	330106
L0709522-01	1.00	01	162814	323361	386015
L0709522-02	1.00	01	155735	309541	379110
L0709522-04	1.00	01	182324	326217	385047
L0709522-05	1.00	01	180106	330616	385227
L0709522-06	1.00	01	180162	322111	379074
L0709522-08	1.00	01	187870	333899	385448
WG250650-01	1.00	01	225830	395898	452970
WG250650-02	1.00	01	226138	394546	453542
WG250650-03	1.00	01	224727	389397	450420

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS9
Workgroup (AAB#): WG250915

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	300415	546089	660212
Upper Limit	NA	NA	600830	1092178	1320424
Lower Limit	NA	NA	150208	273045	330106
L0709522-07	1.00	02	241004	423517	478750
WG250915-01	1.00	01	233049	402262	457248
WG250915-02	1.00	01	221823	382311	433642
WG250915-03	1.00	01	219101	380559	432252

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 885178
Report generated 10/08/2007 12:33

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS6
Workgroup (AAB#): WG251484

ICAL CCV Number: WG249872-07
CAL ID: HPMS6-12-SEP-07
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG249872-07	NA	NA	504507	827682	1073553
Upper Limit	NA	NA	1009014	1655364	2147106
Lower Limit	NA	NA	252254	413841	536777
L0709522-03	1.00	02	369449	668822	870645
L0709522-09	1.00	02	375056	681936	890692
WG251484-01	1.00	01	416825	756827	993544
WG251484-02	1.00	01	440582	764969	1005617

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 885178
Report generated 10/08/2007 12:33

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS9
Workgroup (AAB#): WG250650

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	15.24	12.26	8.4
Upper Limit	NA	NA	15.74	12.76	8.9
Lower Limit	NA	NA	14.74	11.76	7.9
L0709522-01	1.00	01	15.23	12.25	8.41
L0709522-02	1.00	01	15.23	12.26	8.41
L0709522-04	1.00	01	15.23	12.25	8.41
L0709522-05	1.00	01	15.23	12.26	8.41
L0709522-06	1.00	01	15.23	12.26	8.41
L0709522-08	1.00	01	15.23	12.26	8.41
WG250650-01	1.00	01	15.23	12.25	8.41
WG250650-02	1.00	01	15.23	12.26	8.41
WG250650-03	1.00	01	15.23	12.26	8.41

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS9
Workgroup (AAB#): WG250915

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	15.24	12.26	8.4
Upper Limit	NA	NA	15.74	12.76	8.9
Lower Limit	NA	NA	14.74	11.76	7.9
L0709522-07	1.00	02	15.23	12.26	8.41
WG250915-01	1.00	01	15.23	12.26	8.41
WG250915-02	1.00	01	15.24	12.26	8.41
WG250915-03	1.00	01	15.23	12.26	8.41

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 895258
Report generated 10/08/2007 12:33

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522
Instrument ID: HPMS6
Workgroup (AAB#): WG251484

ICAL CCV Number: WG249872-07
CAL ID: HPMS6-12-SEP-07
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG249872-07	NA	NA	19.05	15.49	11.02
Upper Limit	NA	NA	19.55	15.99	11.52
Lower Limit	NA	NA	18.55	14.99	10.52
L0709522-03	1.00	02	19.05	15.49	11.01
L0709522-09	1.00	02	19.05	15.5	11.01
WG251484-01	1.00	01	19.05	15.5	11.02
WG251484-02	1.00	01	19.05	15.5	11.02

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
GC/MS SEMIVOLATILE ORGANICS

KEMRON Login No.: L0709522

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard analyzed on 10/1/07 on HPMS5 yielded a %D for bis(2-chloroethoxy)methane that was beyond the acceptance limit. The standard analyzed on 10/8/07 on HPMS12 yielded %D for 3 compounds that were beyond the acceptance limits. All other acceptance criteria were met.

Continuing Calibration and Tune: The standard analyzed on 10/8/07 on HPMS5 yielded %D for 3 compounds that were beyond the acceptance limits. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS/LCS DUP associated with the soil extraction yielded recoveries for 2-chloronaphthalene and bis(2-chloroethoxy)methane that were below the lower acceptance limits. All other acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. KEMRON recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample 03 yielded a recovery for p-terphenyl-d14 that was below the lower acceptance limit. Sample 04 yielded a recovery for 2-fluorobiphenyl that was below the lower acceptance limit. Surrogates were diluted out of sample 07. All other acceptance criteria were met.

Samples: Samples 01-04 and 07 were analyzed at dilutions due to appearance and/or viscosity.

Manual Integration Reason Codes

KEMRON laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

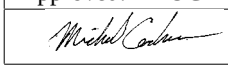
Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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: CAA, ASP, MDC

Approved: 11-OCT-07



LABORATORY REPORT

L0709522

10/11/07 11:01

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG 707/706/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0076-SO-092007	L0709522-01	8270C	10	21-SEP-07
0076-SO-092007/FD	L0709522-02	8270C	10	21-SEP-07
0076-GW-092007	L0709522-03	8270C	1	21-SEP-07
0077-SO-092007	L0709522-04	8270C	10	21-SEP-07
0078-SO-092007	L0709522-05	8270C	10	21-SEP-07
0079-SO-092007	L0709522-06	8270C	1	21-SEP-07
0080-SO-092007	L0709522-07	8270C	50	21-SEP-07
0081-SO-092007	L0709522-08	8270C	1	21-SEP-07

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 19:24**
File ID: **5M48343**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	1690	847
2,4,6-Trichlorophenol	88-06-2		U	1690	847
2,4-Dichlorophenol	120-83-2		U	1690	847
2,4-Dimethylphenol	105-67-9		U	1690	847
2,4-Dinitrophenol	51-28-5		U	8470	4230
2,4-Dinitrotoluene	121-14-2		U	1690	847
2,6-Dinitrotoluene	606-20-2		U	1690	847
2-Chloronaphthalene	91-58-7		U	1690	847
2-Chlorophenol	95-57-8		U	1690	847
2-Methylnaphthalene	91-57-6		U	1690	847
2-Methylphenol	95-48-7		U	1690	847
2-Nitroaniline	88-74-4		U	8470	4230
2-Nitrophenol	88-75-5		U	1690	847
3,3'-Dichlorobenzidine	91-94-1		U	3390	1690
3-,4-Methylphenol	106-44-5		U	1690	847
3-Nitroaniline	99-09-2		U	8470	4230
4,6-Dinitro-2-methylphenol	534-52-1		U	8470	4230
4-Bromophenyl phenyl ether	101-55-3		U	1690	847
4-Chloro-3-methylphenol	59-50-7		U	1690	847
4-Chloroaniline	106-47-8		U	1690	847
4-Chlorophenyl phenyl ether	7005-72-3		U	1690	847
4-Nitroaniline	100-01-6		U	8470	4230
4-Nitrophenol	100-02-7		U	8470	4230
Acenaphthene	83-32-9		U	1690	847
Acenaphthylene	208-96-8		U	1690	847
Anthracene	120-12-7		U	1690	847
Benzo(a)anthracene	56-55-3		U	1690	847
Benzo(a)pyrene	50-32-8		U	1690	847
Benzo(b)fluoranthene	205-99-2		U	1690	847
Benzo(g,h,i)Perylene	191-24-2		U	1690	847
Benzo(k)fluoranthene	207-08-9		U	1690	847
Bis(2-Chloroethoxy)Methane	111-91-1		U	1690	847
Bis(2-Chloroethyl)ether	111-44-4		U	1690	847
bis(2-Chloroisopropyl)ether	39638-32-9		U	1690	847
bis(2-Ethylhexyl)phthalate	117-81-7		U	1690	847
Butyl benzyl phthalate	85-68-7		U	1690	847
Carbazole	86-74-8		U	1690	847
Chrysene	218-01-9		U	1690	847
Dibenz(a,h)anthracene	53-70-3		U	1690	847
Dibenzofuran	132-64-9		U	1690	847
Diethyl phthalate	84-66-2		U	1690	847
Dimethyl phthalate	131-11-3		U	1690	847
Di-N-Butylphthalate	84-74-2		U	1690	847
Di-n-octyl phthalate	117-84-0		U	1690	847
Fluoranthene	206-44-0		U	1690	847
Fluorene	86-73-7		U	1690	847
Hexachlorobenzene	118-74-1		U	1690	847
Hexachlorobutadiene	87-68-3		U	1690	847

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 19:24**
File ID: **5M48343**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	1690	847
Hexachloroethane	67-72-1		U	1690	847
Indeno(1,2,3-cd)pyrene	193-39-5		U	1690	847
Isophorone	78-59-1		U	1690	847
Naphthalene	91-20-3		U	1690	847
Nitrobenzene	98-95-3		U	1690	847
N-Nitrosodiphenylamine	86-30-6		U	1690	847
N-Nitrosodipropylamine	621-64-7		U	1690	847
Pentachlorophenol	87-86-5		U	8470	4230
Phenanthrene	85-01-8		U	1690	847
Phenol	108-95-2		U	1690	847
Pyrene	129-00-0		U	1690	847

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	64.6	19	122	
2-Fluorobiphenyl	46.5	30	115	
2-Fluorophenol	46.2	25	121	
Nitrobenzene-d5	48.7	23	120	
p-Terphenyl-d14	68.8	18	137	
Phenol-d5	53.1	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 23:18**
File ID: **5M48350**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	1870	935
2,4,6-Trichlorophenol	88-06-2		U	1870	935
2,4-Dichlorophenol	120-83-2		U	1870	935
2,4-Dimethylphenol	105-67-9		U	1870	935
2,4-Dinitrophenol	51-28-5		U	9350	4670
2,4-Dinitrotoluene	121-14-2		U	1870	935
2,6-Dinitrotoluene	606-20-2		U	1870	935
2-Chloronaphthalene	91-58-7		U	1870	935
2-Chlorophenol	95-57-8		U	1870	935
2-Methylnaphthalene	91-57-6		U	1870	935
2-Methylphenol	95-48-7		U	1870	935
2-Nitroaniline	88-74-4		U	9350	4670
2-Nitrophenol	88-75-5		U	1870	935
3,3'-Dichlorobenzidine	91-94-1		U	3740	1870
3-,4-Methylphenol	106-44-5		U	1870	935
3-Nitroaniline	99-09-2		U	9350	4670
4,6-Dinitro-2-methylphenol	534-52-1		U	9350	4670
4-Bromophenyl phenyl ether	101-55-3		U	1870	935
4-Chloro-3-methylphenol	59-50-7		U	1870	935
4-Chloroaniline	106-47-8		U	1870	935
4-Chlorophenyl phenyl ether	7005-72-3		U	1870	935
4-Nitroaniline	100-01-6		U	9350	4670
4-Nitrophenol	100-02-7		U	9350	4670
Acenaphthene	83-32-9		U	1870	935
Acenaphthylene	208-96-8		U	1870	935
Anthracene	120-12-7		U	1870	935
Benzo(a)anthracene	56-55-3		U	1870	935
Benzo(a)pyrene	50-32-8		U	1870	935
Benzo(b)fluoranthene	205-99-2		U	1870	935
Benzo(g,h,i)Perylene	191-24-2		U	1870	935
Benzo(k)fluoranthene	207-08-9		U	1870	935
Bis(2-Chloroethoxy)Methane	111-91-1		U	1870	935
Bis(2-Chloroethyl)ether	111-44-4		U	1870	935
bis(2-Chloroisopropyl)ether	39638-32-9		U	1870	935
bis(2-Ethylhexyl)phthalate	117-81-7		U	1870	935
Butyl benzyl phthalate	85-68-7		U	1870	935
Carbazole	86-74-8		U	1870	935
Chrysene	218-01-9		U	1870	935
Dibenz(a,h)anthracene	53-70-3		U	1870	935
Dibenzofuran	132-64-9		U	1870	935
Diethyl phthalate	84-66-2		U	1870	935
Dimethyl phthalate	131-11-3		U	1870	935
Di-N-Butylphthalate	84-74-2		U	1870	935
Di-n-octyl phthalate	117-84-0		U	1870	935
Fluoranthene	206-44-0		U	1870	935
Fluorene	86-73-7		U	1870	935
Hexachlorobenzene	118-74-1		U	1870	935
Hexachlorobutadiene	87-68-3		U	1870	935

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 23:18**
File ID: **5M48350**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	1870	935
Hexachloroethane	67-72-1		U	1870	935
Indeno(1,2,3-cd)pyrene	193-39-5		U	1870	935
Isophorone	78-59-1		U	1870	935
Naphthalene	91-20-3		U	1870	935
Nitrobenzene	98-95-3		U	1870	935
N-Nitrosodiphenylamine	86-30-6		U	1870	935
N-Nitrosodipropylamine	621-64-7		U	1870	935
Pentachlorophenol	87-86-5		U	9350	4670
Phenanthrene	85-01-8		U	1870	935
Phenol	108-95-2		U	1870	935
Pyrene	129-00-0		U	1870	935

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	61.4	19	122	
2-Fluorobiphenyl	47.2	30	115	
2-Fluorophenol	50.6	25	121	
Nitrobenzene-d5	51.0	23	120	
p-Terphenyl-d14	60.8	18	137	
Phenol-d5	52.5	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-03**
Client ID: **0076-GW-092007**
Matrix: **Water**
Workgroup Number: **WG251280**
Collect Date: **09/20/2007 12:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3520C**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS4**
Prep Date: **09/24/2007 08:30**
Cal Date: **09/24/2007 13:35**
Run Date: **09/28/2007 19:04**
File ID: **4M39483**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	6.41	3.21
2,4,6-Trichlorophenol	88-06-2		U	6.41	3.21
2,4-Dichlorophenol	120-83-2		U	6.41	3.21
2,4-Dimethylphenol	105-67-9		U	6.41	3.21
2,4-Dinitrophenol	51-28-5		U	32.1	16.0
2,4-Dinitrotoluene	121-14-2		U	6.41	3.21
2,6-Dinitrotoluene	606-20-2		U	6.41	3.21
2-Chloronaphthalene	91-58-7		U	6.41	3.21
2-Chlorophenol	95-57-8		U	6.41	3.21
2-Methylnaphthalene	91-57-6		U	6.41	3.21
2-Methylphenol	95-48-7		U	6.41	3.21
2-Nitroaniline	88-74-4		U	32.1	16.0
2-Nitrophenol	88-75-5		U	6.41	3.21
3,3'-Dichlorobenzidine	91-94-1		U	6.41	3.21
3-,4-Methylphenol	106-44-5		U	6.41	3.21
3-Nitroaniline	99-09-2		U	32.1	16.0
4,6-Dinitro-2-methylphenol	534-52-1		U	32.1	16.0
4-Bromophenyl phenyl ether	101-55-3		U	6.41	3.21
4-Chloro-3-methylphenol	59-50-7		U	6.41	3.21
4-Chloroaniline	106-47-8		U	6.41	3.21
4-Chlorophenyl phenyl ether	7005-72-3		U	6.41	3.21
4-Nitroaniline	100-01-6		U	32.1	16.0
4-Nitrophenol	100-02-7		U	32.1	16.0
Acenaphthene	83-32-9		U	6.41	3.21
Acenaphthylene	208-96-8		U	6.41	3.21
Anthracene	120-12-7		U	6.41	3.21
Benzo(a)anthracene	56-55-3		U	6.41	3.21
Benzo(a)pyrene	50-32-8		U	6.41	3.21
Benzo(b)fluoranthene	205-99-2		U	6.41	3.21
Benzo(g,h,i)Perylene	191-24-2		U	6.41	3.21
Benzo(k)fluoranthene	207-08-9		U	6.41	3.21
Bis(2-Chloroethoxy)Methane	111-91-1		U	6.41	3.21
Bis(2-Chloroethyl)ether	111-44-4		U	6.41	3.21
bis(2-Chloroisopropyl)ether	39638-32-9		U	6.41	3.21
bis(2-Ethylhexyl)phthalate	117-81-7		U	6.41	3.21
Butyl benzyl phthalate	85-68-7		U	6.41	3.21
Carbazole	86-74-8		U	25.6	3.21
Chrysene	218-01-9		U	6.41	3.21
Dibenz(a,h)anthracene	53-70-3		U	6.41	3.21
Dibenzofuran	132-64-9		U	6.41	3.21
Diethyl phthalate	84-66-2		U	6.41	3.21
Dimethyl phthalate	131-11-3		U	6.41	3.21
Di-N-Butylphthalate	84-74-2		U	6.41	3.21
Di-n-octyl phthalate	117-84-0		U	6.41	3.21
Fluoranthene	206-44-0		U	6.41	3.21
Fluorene	86-73-7		U	6.41	3.21
Hexachlorobenzene	118-74-1		U	6.41	3.21
Hexachlorobutadiene	87-68-3		U	6.41	3.21

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-03**
Client ID: **0076-GW-092007**
Matrix: **Water**
Workgroup Number: **WG251280**
Collect Date: **09/20/2007 12:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3520C**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS4**
Prep Date: **09/24/2007 08:30**
Cal Date: **09/24/2007 13:35**
Run Date: **09/28/2007 19:04**
File ID: **4M39483**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	6.41	3.21
Hexachloroethane	67-72-1		U	6.41	3.21
Indeno(1,2,3-cd)pyrene	193-39-5		U	6.41	3.21
Isophorone	78-59-1		U	6.41	3.21
Naphthalene	91-20-3		U	6.41	3.21
Nitrobenzene	98-95-3		U	6.41	3.21
N-Nitrosodiphenylamine	86-30-6		U	6.41	3.21
N-Nitrosodipropylamine	621-64-7		U	6.41	3.21
Pentachlorophenol	87-86-5		U	32.1	16.0
Phenanthrene	85-01-8		U	6.41	3.21
Phenol	108-95-2		U	6.41	3.21
Pyrene	129-00-0		U	6.41	3.21

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	77.1	10	123	
2-Fluorobiphenyl	70.7	43	116	
2-Fluorophenol	68.1	21	110	
Nitrobenzene-d5	82.7	35	114	
p-Terphenyl-d14	22.5	33	141	*
Phenol-d5	74.8	10	110	

U Not detected at or above the reporting limit
***** Surrogate or spike compound out of range

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 13:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 23:52**
File ID: **5M48351**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	1920	962
2,4,6-Trichlorophenol	88-06-2		U	1920	962
2,4-Dichlorophenol	120-83-2		U	1920	962
2,4-Dimethylphenol	105-67-9		U	1920	962
2,4-Dinitrophenol	51-28-5		U	9620	4800
2,4-Dinitrotoluene	121-14-2		U	1920	962
2,6-Dinitrotoluene	606-20-2		U	1920	962
2-Chloronaphthalene	91-58-7		U	1920	962
2-Chlorophenol	95-57-8		U	1920	962
2-Methylnaphthalene	91-57-6		U	1920	962
2-Methylphenol	95-48-7		U	1920	962
2-Nitroaniline	88-74-4		U	9620	4800
2-Nitrophenol	88-75-5		U	1920	962
3,3'-Dichlorobenzidine	91-94-1		U	3850	1920
3-,4-Methylphenol	106-44-5		U	1920	962
3-Nitroaniline	99-09-2		U	9620	4800
4,6-Dinitro-2-methylphenol	534-52-1		U	9620	4800
4-Bromophenyl phenyl ether	101-55-3		U	1920	962
4-Chloro-3-methylphenol	59-50-7		U	1920	962
4-Chloroaniline	106-47-8		U	1920	962
4-Chlorophenyl phenyl ether	7005-72-3		U	1920	962
4-Nitroaniline	100-01-6		U	9620	4800
4-Nitrophenol	100-02-7		U	9620	4800
Acenaphthene	83-32-9		U	1920	962
Acenaphthylene	208-96-8		U	1920	962
Anthracene	120-12-7		U	1920	962
Benzo(a)anthracene	56-55-3		U	1920	962
Benzo(a)pyrene	50-32-8		U	1920	962
Benzo(b)fluoranthene	205-99-2		U	1920	962
Benzo(g,h,i)Perylene	191-24-2		U	1920	962
Benzo(k)fluoranthene	207-08-9		U	1920	962
Bis(2-Chloroethoxy)Methane	111-91-1		U	1920	962
Bis(2-Chloroethyl)ether	111-44-4		U	1920	962
bis(2-Chloroisopropyl)ether	39638-32-9		U	1920	962
bis(2-Ethylhexyl)phthalate	117-81-7		U	1920	962
Butyl benzyl phthalate	85-68-7		U	1920	962
Carbazole	86-74-8		U	1920	962
Chrysene	218-01-9		U	1920	962
Dibenz(a,h)anthracene	53-70-3		U	1920	962
Dibenzofuran	132-64-9		U	1920	962
Diethyl phthalate	84-66-2		U	1920	962
Dimethyl phthalate	131-11-3		U	1920	962
Di-N-Butylphthalate	84-74-2		U	1920	962
Di-n-octyl phthalate	117-84-0		U	1920	962
Fluoranthene	206-44-0		U	1920	962
Fluorene	86-73-7		U	1920	962
Hexachlorobenzene	118-74-1		U	1920	962
Hexachlorobutadiene	87-68-3		U	1920	962

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 13:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 23:52**
File ID: **5M48351**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	1920	962
Hexachloroethane	67-72-1		U	1920	962
Indeno(1,2,3-cd)pyrene	193-39-5		U	1920	962
Isophorone	78-59-1		U	1920	962
Naphthalene	91-20-3		U	1920	962
Nitrobenzene	98-95-3		U	1920	962
N-Nitrosodiphenylamine	86-30-6		U	1920	962
N-Nitrosodipropylamine	621-64-7		U	1920	962
Pentachlorophenol	87-86-5		U	9620	4800
Phenanthrene	85-01-8		U	1920	962
Phenol	108-95-2		U	1920	962
Pyrene	129-00-0		U	1920	962

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	51.8	19	122	
2-Fluorobiphenyl	27.7	30	115	*
2-Fluorophenol	33.0	25	121	
Nitrobenzene-d5	30.7	23	120	
p-Terphenyl-d14	50.6	18	137	
Phenol-d5	32.1	24	113	

U Not detected at or above the reporting limit
***** Surrogate or spike compound out of range

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 14:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 18:51**
File ID: **5M48342**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	1900	952
2,4,6-Trichlorophenol	88-06-2		U	1900	952
2,4-Dichlorophenol	120-83-2		U	1900	952
2,4-Dimethylphenol	105-67-9		U	1900	952
2,4-Dinitrophenol	51-28-5		U	9520	4750
2,4-Dinitrotoluene	121-14-2		U	1900	952
2,6-Dinitrotoluene	606-20-2		U	1900	952
2-Chloronaphthalene	91-58-7		U	1900	952
2-Chlorophenol	95-57-8		U	1900	952
2-Methylnaphthalene	91-57-6		U	1900	952
2-Methylphenol	95-48-7		U	1900	952
2-Nitroaniline	88-74-4		U	9520	4750
2-Nitrophenol	88-75-5		U	1900	952
3,3'-Dichlorobenzidine	91-94-1		U	3810	1900
3-,4-Methylphenol	106-44-5		U	1900	952
3-Nitroaniline	99-09-2		U	9520	4750
4,6-Dinitro-2-methylphenol	534-52-1		U	9520	4750
4-Bromophenyl phenyl ether	101-55-3		U	1900	952
4-Chloro-3-methylphenol	59-50-7		U	1900	952
4-Chloroaniline	106-47-8		U	1900	952
4-Chlorophenyl phenyl ether	7005-72-3		U	1900	952
4-Nitroaniline	100-01-6		U	9520	4750
4-Nitrophenol	100-02-7		U	9520	4750
Acenaphthene	83-32-9		U	1900	952
Acenaphthylene	208-96-8		U	1900	952
Anthracene	120-12-7		U	1900	952
Benzo(a)anthracene	56-55-3		U	1900	952
Benzo(a)pyrene	50-32-8		U	1900	952
Benzo(b)fluoranthene	205-99-2		U	1900	952
Benzo(g,h,i)Perylene	191-24-2		U	1900	952
Benzo(k)fluoranthene	207-08-9		U	1900	952
Bis(2-Chloroethoxy)Methane	111-91-1		U	1900	952
Bis(2-Chloroethyl)ether	111-44-4		U	1900	952
bis(2-Chloroisopropyl)ether	39638-32-9		U	1900	952
bis(2-Ethylhexyl)phthalate	117-81-7		U	1900	952
Butyl benzyl phthalate	85-68-7		U	1900	952
Carbazole	86-74-8		U	1900	952
Chrysene	218-01-9		U	1900	952
Dibenz(a,h)anthracene	53-70-3		U	1900	952
Dibenzofuran	132-64-9		U	1900	952
Diethyl phthalate	84-66-2		U	1900	952
Dimethyl phthalate	131-11-3		U	1900	952
Di-N-Butylphthalate	84-74-2		U	1900	952
Di-n-octyl phthalate	117-84-0		U	1900	952
Fluoranthene	206-44-0		U	1900	952
Fluorene	86-73-7		U	1900	952
Hexachlorobenzene	118-74-1		U	1900	952
Hexachlorobutadiene	87-68-3		U	1900	952

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 14:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 18:51**
File ID: **5M48342**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	1900	952
Hexachloroethane	67-72-1		U	1900	952
Indeno(1,2,3-cd)pyrene	193-39-5		U	1900	952
Isophorone	78-59-1		U	1900	952
Naphthalene	91-20-3		U	1900	952
Nitrobenzene	98-95-3		U	1900	952
N-Nitrosodiphenylamine	86-30-6		U	1900	952
N-Nitrosodipropylamine	621-64-7		U	1900	952
Pentachlorophenol	87-86-5		U	9520	4750
Phenanthrene	85-01-8		U	1900	952
Phenol	108-95-2		U	1900	952
Pyrene	129-00-0		U	1900	952

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	51.7	19	122	
2-Fluorobiphenyl	42.0	30	115	
2-Fluorophenol	45.7	25	121	
Nitrobenzene-d5	41.4	23	120	
p-Terphenyl-d14	63.7	18	137	
Phenol-d5	43.7	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 18:17**
File ID: **5M48341**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	200	100
2,4,6-Trichlorophenol	88-06-2		U	200	100
2,4-Dichlorophenol	120-83-2		U	200	100
2,4-Dimethylphenol	105-67-9		U	200	100
2,4-Dinitrophenol	51-28-5		U	1000	499
2,4-Dinitrotoluene	121-14-2		U	200	100
2,6-Dinitrotoluene	606-20-2		U	200	100
2-Chloronaphthalene	91-58-7		U	200	100
2-Chlorophenol	95-57-8		U	200	100
2-Methylnaphthalene	91-57-6		U	200	100
2-Methylphenol	95-48-7		U	200	100
2-Nitroaniline	88-74-4		U	1000	499
2-Nitrophenol	88-75-5		U	200	100
3,3'-Dichlorobenzidine	91-94-1		U	400	200
3-,4-Methylphenol	106-44-5		U	200	100
3-Nitroaniline	99-09-2		U	1000	499
4,6-Dinitro-2-methylphenol	534-52-1		U	1000	499
4-Bromophenyl phenyl ether	101-55-3		U	200	100
4-Chloro-3-methylphenol	59-50-7		U	200	100
4-Chloroaniline	106-47-8		U	200	100
4-Chlorophenyl phenyl ether	7005-72-3		U	200	100
4-Nitroaniline	100-01-6		U	1000	499
4-Nitrophenol	100-02-7		U	1000	499
Acenaphthene	83-32-9		U	200	100
Acenaphthylene	208-96-8		U	200	100
Anthracene	120-12-7		U	200	100
Benzo(a)anthracene	56-55-3		U	200	100
Benzo(a)pyrene	50-32-8		U	200	100
Benzo(b)fluoranthene	205-99-2		U	200	100
Benzo(g,h,i)Perylene	191-24-2		U	200	100
Benzo(k)fluoranthene	207-08-9		U	200	100
Bis(2-Chloroethoxy)Methane	111-91-1		U	200	100
Bis(2-Chloroethyl)ether	111-44-4		U	200	100
bis(2-Chloroisopropyl)ether	39638-32-9		U	200	100
bis(2-Ethylhexyl)phthalate	117-81-7		U	200	100
Butyl benzyl phthalate	85-68-7		U	200	100
Carbazole	86-74-8		U	200	100
Chrysene	218-01-9		U	200	100
Dibenz(a,h)anthracene	53-70-3		U	200	100
Dibenzofuran	132-64-9		U	200	100
Diethyl phthalate	84-66-2		U	200	100
Dimethyl phthalate	131-11-3		U	200	100
Di-N-Butylphthalate	84-74-2		U	200	100
Di-n-octyl phthalate	117-84-0		U	200	100
Fluoranthene	206-44-0		U	200	100
Fluorene	86-73-7		U	200	100
Hexachlorobenzene	118-74-1		U	200	100
Hexachlorobutadiene	87-68-3		U	200	100

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 18:17**
File ID: **5M48341**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	200	100
Hexachloroethane	67-72-1		U	200	100
Indeno(1,2,3-cd)pyrene	193-39-5		U	200	100
Isophorone	78-59-1		U	200	100
Naphthalene	91-20-3		U	200	100
Nitrobenzene	98-95-3		U	200	100
N-Nitrosodiphenylamine	86-30-6		U	200	100
N-Nitrosodipropylamine	621-64-7		U	200	100
Pentachlorophenol	87-86-5		U	1000	499
Phenanthrene	85-01-8		U	200	100
Phenol	108-95-2		U	200	100
Pyrene	129-00-0		U	200	100

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	57.4	19	122	
2-Fluorobiphenyl	36.6	30	115	
2-Fluorophenol	42.1	25	121	
Nitrobenzene-d5	45.4	23	120	
p-Terphenyl-d14	81.2	18	137	
Phenol-d5	44.4	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-07**
Client ID: **0080-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 16:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 22:44**
File ID: **5M48349**
Percent Solid: **85.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	9420	4710
2,4,6-Trichlorophenol	88-06-2		U	9420	4710
2,4-Dichlorophenol	120-83-2		U	9420	4710
2,4-Dimethylphenol	105-67-9		U	9420	4710
2,4-Dinitrophenol	51-28-5		U	47100	23500
2,4-Dinitrotoluene	121-14-2		U	9420	4710
2,6-Dinitrotoluene	606-20-2		U	9420	4710
2-Chloronaphthalene	91-58-7		U	9420	4710
2-Chlorophenol	95-57-8		U	9420	4710
2-Methylnaphthalene	91-57-6		U	9420	4710
2-Methylphenol	95-48-7		U	9420	4710
2-Nitroaniline	88-74-4		U	47100	23500
2-Nitrophenol	88-75-5		U	9420	4710
3,3'-Dichlorobenzidine	91-94-1		U	18800	9420
3-,4-Methylphenol	106-44-5		U	9420	4710
3-Nitroaniline	99-09-2		U	47100	23500
4,6-Dinitro-2-methylphenol	534-52-1		U	47100	23500
4-Bromophenyl phenyl ether	101-55-3		U	9420	4710
4-Chloro-3-methylphenol	59-50-7		U	9420	4710
4-Chloroaniline	106-47-8		U	9420	4710
4-Chlorophenyl phenyl ether	7005-72-3		U	9420	4710
4-Nitroaniline	100-01-6		U	47100	23500
4-Nitrophenol	100-02-7		U	47100	23500
Acenaphthene	83-32-9		U	9420	4710
Acenaphthylene	208-96-8		U	9420	4710
Anthracene	120-12-7		U	9420	4710
Benzo(a)anthracene	56-55-3		U	9420	4710
Benzo(a)pyrene	50-32-8		U	9420	4710
Benzo(b)fluoranthene	205-99-2		U	9420	4710
Benzo(g,h,i)Perylene	191-24-2		U	9420	4710
Benzo(k)fluoranthene	207-08-9		U	9420	4710
Bis(2-Chloroethoxy)Methane	111-91-1		U	9420	4710
Bis(2-Chloroethyl)ether	111-44-4		U	9420	4710
bis(2-Chloroisopropyl)ether	39638-32-9		U	9420	4710
bis(2-Ethylhexyl)phthalate	117-81-7		U	9420	4710
Butyl benzyl phthalate	85-68-7		U	9420	4710
Carbazole	86-74-8		U	9420	4710
Chrysene	218-01-9		U	9420	4710
Dibenz(a,h)anthracene	53-70-3		U	9420	4710
Dibenzofuran	132-64-9		U	9420	4710
Diethyl phthalate	84-66-2		U	9420	4710
Dimethyl phthalate	131-11-3		U	9420	4710
Di-N-Butylphthalate	84-74-2		U	9420	4710
Di-n-octyl phthalate	117-84-0		U	9420	4710
Fluoranthene	206-44-0		U	9420	4710
Fluorene	86-73-7		U	9420	4710
Hexachlorobenzene	118-74-1		U	9420	4710
Hexachlorobutadiene	87-68-3		U	9420	4710

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-07**
Client ID: **0080-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 16:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS5**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/01/2007 13:26**
Run Date: **10/08/2007 22:44**
File ID: **5M48349**
Percent Solid: **85.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	9420	4710
Hexachloroethane	67-72-1		U	9420	4710
Indeno(1,2,3-cd)pyrene	193-39-5		U	9420	4710
Isophorone	78-59-1		U	9420	4710
Naphthalene	91-20-3		U	9420	4710
Nitrobenzene	98-95-3		U	9420	4710
N-Nitrosodiphenylamine	86-30-6		U	9420	4710
N-Nitrosodipropylamine	621-64-7		U	9420	4710
Pentachlorophenol	87-86-5		U	47100	23500
Phenanthrene	85-01-8		U	9420	4710
Phenol	108-95-2		U	9420	4710
Pyrene	129-00-0		U	9420	4710

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol		19	122	DL
2-Fluorobiphenyl		30	115	DL
2-Fluorophenol		25	121	DL
Nitrobenzene-d5		23	120	DL
p-Terphenyl-d14		18	137	DL
Phenol-d5		24	113	DL

U Not detected at or above the reporting limit
DL Surrogate or spike compound was diluted out

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/08/2007 14:36**
Run Date: **10/09/2007 23:21**
File ID: **12M18937**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	184	92.0
2,4,6-Trichlorophenol	88-06-2		U	184	92.0
2,4-Dichlorophenol	120-83-2		U	184	92.0
2,4-Dimethylphenol	105-67-9		U	184	92.0
2,4-Dinitrophenol	51-28-5		U	920	460
2,4-Dinitrotoluene	121-14-2		U	184	92.0
2,6-Dinitrotoluene	606-20-2		U	184	92.0
2-Chloronaphthalene	91-58-7		U	184	92.0
2-Chlorophenol	95-57-8		U	184	92.0
2-Methylnaphthalene	91-57-6		U	184	92.0
2-Methylphenol	95-48-7		U	184	92.0
2-Nitroaniline	88-74-4		U	920	460
2-Nitrophenol	88-75-5		U	184	92.0
3,3'-Dichlorobenzidine	91-94-1		U	368	184
3-,4-Methylphenol	106-44-5		U	184	92.0
3-Nitroaniline	99-09-2		U	920	460
4,6-Dinitro-2-methylphenol	534-52-1		U	920	460
4-Bromophenyl phenyl ether	101-55-3		U	184	92.0
4-Chloro-3-methylphenol	59-50-7		U	184	92.0
4-Chloroaniline	106-47-8		U	184	92.0
4-Chlorophenyl phenyl ether	7005-72-3		U	184	92.0
4-Nitroaniline	100-01-6		U	920	460
4-Nitrophenol	100-02-7		U	920	460
Acenaphthene	83-32-9		U	184	92.0
Acenaphthylene	208-96-8		U	184	92.0
Anthracene	120-12-7		U	184	92.0
Benzo(a)anthracene	56-55-3		U	184	92.0
Benzo(a)pyrene	50-32-8		U	184	92.0
Benzo(b)fluoranthene	205-99-2		U	184	92.0
Benzo(g,h,i)Perylene	191-24-2		U	184	92.0
Benzo(k)fluoranthene	207-08-9		U	184	92.0
Bis(2-Chloroethoxy)Methane	111-91-1		U	184	92.0
Bis(2-Chloroethyl)ether	111-44-4		U	184	92.0
bis(2-Chloroisopropyl)ether	39638-32-9		U	184	92.0
bis(2-Ethylhexyl)phthalate	117-81-7		U	184	92.0
Butyl benzyl phthalate	85-68-7		U	184	92.0
Carbazole	86-74-8		U	184	92.0
Chrysene	218-01-9		U	184	92.0
Dibenz(a,h)anthracene	53-70-3		U	184	92.0
Dibenzofuran	132-64-9		U	184	92.0
Diethyl phthalate	84-66-2		U	184	92.0
Dimethyl phthalate	131-11-3		U	184	92.0
Di-N-Butylphthalate	84-74-2		U	184	92.0
Di-n-octyl phthalate	117-84-0		U	184	92.0
Fluoranthene	206-44-0		U	184	92.0
Fluorene	86-73-7		U	184	92.0
Hexachlorobenzene	118-74-1		U	184	92.0
Hexachlorobutadiene	87-68-3		U	184	92.0

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG252133**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **asp**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **09/28/2007 08:00**
Cal Date: **10/08/2007 14:36**
Run Date: **10/09/2007 23:21**
File ID: **12M18937**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	184	92.0
Hexachloroethane	67-72-1		U	184	92.0
Indeno(1,2,3-cd)pyrene	193-39-5		U	184	92.0
Isophorone	78-59-1		U	184	92.0
Naphthalene	91-20-3		U	184	92.0
Nitrobenzene	98-95-3		U	184	92.0
N-Nitrosodiphenylamine	86-30-6		U	184	92.0
N-Nitrosodipropylamine	621-64-7		U	184	92.0
Pentachlorophenol	87-86-5		U	920	460
Phenanthrene	85-01-8		U	184	92.0
Phenol	108-95-2		U	184	92.0
Pyrene	129-00-0		U	184	92.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	47.7	19	122	
2-Fluorobiphenyl	42.9	30	115	
2-Fluorophenol	47.0	25	121	
Nitrobenzene-d5	53.9	23	120	
p-Terphenyl-d14	85.0	18	137	
Phenol-d5	54.4	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet

R1280552

KEMRON ENVIRONMENTAL SERVICES

Parameter: BNASoil SOP #: EXASE01 Revision #: 6
Extraction Analyst(s): CPD,CAF TV/KD Analyst(s): CAF
Date/Time Extracted: 09-28-07/0830 Date TV/KD: 09-28-07
Spike/Surrogate Analyst: CAF Witness: CPD
Surrogate #: STD21760 Earliest Hold Date: 10/1
Spike #: A = STD21456 Spike #: B = —

Extraction Work Group WG 251302

Extract Relinquished By: CSH
Extract Received By & Date: ED 10-1-07

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank					20.00g	500µl		1mL	T				WG 251302-01
2	LCS							500µl		C				WG -02
3	LCSDUP									C				WG -03
4	09-520-04	827 SPE				20.32g				O				Re Ext in Hold
5	09-522-01					20.59g				O				
6	-02					20.10g				O				
7	-04					20.27g				O				
8	-05					20.04g				C				
9	-06					20.06g				C				
10	-07 *				CPD 9-28-07	20.47g				O				*
11	-08			20.52	~~20.52~~	~~20.68g~~				C				
12	09-555-01	8270	CPD 9-28-07	17.56		~~20.52g~~				O				wet soil
13	-02					17.75g				O				
14	-03					17.46g				O				
15	-04					17.72g				O				
16	-05					17.67g				O				
17	-06					17.61g				O				
18	-07					18.69g				O				
19														
20														
21														
22														
23														
24														

CPD 9-28-07

Methylene Chloride Lot #: E31E34
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E25595
Reagent: DE Lot #: E11H04
Reagent: — Lot #: —
Acid: 1% Acetic Lot #: RCT 12074
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: C0412125

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	√				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	√
Sulfur 3660B			

Peer Reviewed By: Chris Hill Date: 10-1-7

Extraction Notes For Volume # 288 Page # 57

General Comments: None

Extraction Anomalies: * SX. 09-522-01 may have been double surrogated.

Concentration Anomalies: None

Clean-Up Anomalies: None

Supervisor Review: _____ Date: _____

Sample Extract Log Sheet R1277682

KEMRON ENVIRONMENTAL SERVICES

Parameter: BNA H_2O SOP #: EXB01 Revision #: 15
Extraction Analyst(s): CSH TV/KD Analyst(s): CSH
Date/Time Extracted: 9-24-7 @0830 Date TV/KD: 9-26-7
Spike/Surrogate Analyst: CSH Witness: CPD
Surrogate #: STD21351 Earliest Hold Date: 9/24
Spike #: A = STD21456 Spike #: B = —

Extraction Work Group WG 250685

Extract Relinquished By: CSH
Extract Received By & Date: CAA 9/26/07

	Sample ID	Test Code	pH √ <2	pH √ N	pH √ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions √ A	Emulsions √ BN	Emulsions √ N	Comments
1	Blank		✓		✓	1000mL	500ul		1mL	T				WG 250685 02
2	LCS		✓		✓	1		500ul		C				WG 1 -03
3	09-373-01	8270	✓		✓	890mL								
4	-03		✓		✓	950mL								
5	-05		✓		✓	940mL				1				
6	-07		✓		✓	950mL				T				
7	-09		✓		✓	890mL				C				
8	-11		✓		✓	880mL								WG 250685-01
9	-13MS		✓		✓	890mL		500ul						1 -04
10	-15MSD		✓		✓	875mL		1						1 -05
11	09-406-01		✓		✓	890mL								
12	-03		✓		✓	980mL								
13	-05		✓		✓	1								
14	-07		✓		✓	880mL				1				
15	09-485-01		✓		✓	900mL				T				
16	-03		✓		✓	865mL				C				
17	-05		✓		✓	910mL				T				
18	-07		✓		✓	900mL				C				
19	-09		✓		✓	900mL				1			*	
20	-11		✓		✓	920mL								
21	-13		✓		✓	1								
22	-15	1	✓		✓	980mL								
23	09-522-03	827-SPE	✓		✓	780mL	1		1	1				
24							CSH 9-26-7							

Methylene Chloride Lot #: E29E02
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: 10N NaOH Lot #: RGT12024
Reagent: — Lot #: —
Reagent: — Lot #: —
Acid: 1:1 H_2SO_4 Lot #: RGT11835
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: C0A12125

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C	✓	1200	0730	1110	0730
Soxhlet	3540C					
ASE*	3545					
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Ch. Nick Davis Date: 9.26.07

Extraction Notes For Volume # 287 Page # 59

General Comments: NONE

Extraction Anomalies: * → 09-485-09 → ROUND BOTTOM FLASK WENT DRY & CRACKED DURING THE ACID SIDE OF THE EXTRACTION. (POSSIBLY DUE TO A LOOSE CONNECTION.) FLASK WAS REPLACED AND CH_2Cl_2 WAS ADDED TO RESET THE EQUILIBRIUM, EXTRACTION WAS CONTINUED AS USUAL.

Concentration Anomalies: NONE

Clean-Up Anomalies: NA

Supervisor Review: _____ Date: _____

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092407
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21030

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups:

Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments: ICAL: #26, 48, 63, 74, 98, 101, 114, 115, 120, and 121 calibrated only to 100ppm. #105, 109, 119, 122 fails. ICAL not good for Appendix IX.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39395	WG250777-01 50PPM DFTPP STD	1	1	STD21939	09/24/07 08:07
2	4M39396	WG250777-02 50PPM MEGAMIX STD	1	1	STD21155	09/24/07 08:26
3	4M39397	WG250777-04 10PPM MEGAMIX STD	1	1	STD21155	09/24/07 09:00
4	4M39398	WG250777-05 15PPM MEGAMIX STD	1	1	STD21155	09/24/07 09:35
5	4M39399	WG250777-06 25PPM MEGAMIX STD	1	1	STD21155	09/24/07 10:09
6	4M39400	WG250777-07 80PPM MEGAMIX STD	1	1	STD21155	09/24/07 10:43
7	4M39401	WG250777-08 100PPM MEGAMIX STD	1	1	STD21155	09/24/07 11:17
8	4M39402	WG250777-09 120PPM MEGAMIX STD	1	1	STD21155	09/24/07 11:51
9	4M39403	WG250777-03 3PPM MEGAMIX STD	1	1	STD21155	09/24/07 12:25
10	4M39404	WG250777-10 50PPM BNA Alt Source STD	1	1	STD21455	09/24/07 13:00
11	4M39405	WG250777-02 50PPM MEGAMIX STD	1	1	STD21155	09/24/07 13:35
12	4M39406	WG250777-11 50PPM A9 Alt Source STD	1	1	STD21461	09/24/07 14:09
13	4M39407	WG250777-10 50PPM BNA Alt Source STD	1	1	STD21455	09/24/07 14:44

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG250777-02 50PPM MEGAMIX STD - Not reported.			
10	X			
	WG250777-10 50PPM BNA Alt Source STD - Not reported.			

Page: 1 Approved: 27-SEP-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092607
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21036

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG251280

Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39408	WG251131-01 50PPM DFTPP STD	1	1	STD21939	09/26/07 14:05
2	4M39409	WG251131-02 50PPM MEGAMIX STD	1	1	STD21155	09/26/07 14:23
3	4M39410	WG250685-02 BLK 9/24 EP287 P59	1	1		09/26/07 14:57
4	4M39411	WG250685-03 LCS 9/24 EP287 P59	1	1		09/26/07 15:31
5	4M39412	L0709373-01	1	1		09/26/07 16:05
6	4M39413	L0709373-03	1	1		09/26/07 16:39
7	4M39414	L0709373-05	1	1		09/26/07 17:13
8	4M39415	L0709373-07	1	1		09/26/07 17:46
9	4M39416	L0709373-09	1	1		09/26/07 18:20
10	4M39417	WG250685-01 L0709373-11 REF	1	1		09/26/07 18:54
11	4M39418	WG250685-04 L0709373-13 MS	1	1		09/26/07 19:28
12	4M39419	WG250685-05 L0709373-15 MSD	1	1		09/26/07 20:01
13	4M39420	L0709406-01	1	1		09/26/07 20:35
14	4M39421	L0709406-03	1	1		09/26/07 21:09
15	4M39422	L0709406-05	1	1		09/26/07 21:43
16	4M39423	L0709406-07	1	1		09/26/07 22:17
17	4M39424	L0709485-01	1	1		09/26/07 22:52
18	4M39425	L0709485-03	1	1		09/26/07 23:26
19	4M39426	L0709485-05	1	1		09/27/07 00:00
20	4M39427	L0709485-07	1	1		09/27/07 00:34
21	4M39428	L0709485-09	1	1		09/27/07 01:08
22	4M39429	L0709485-11	1	1		09/27/07 01:42

Comments

Seq.	Rerun	Dil.	Reason	Analytes
21				
	L0709485-09 - All SS <10% except TPH (still low) - Needs re-extracted.			

Page: 1

Approved: 28-SEP-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092807
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21057

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251280, WG251388, WG251394
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39463	WG251307-01 50PPM DFTPP STD	1	1	STD21939	09/28/07 08:04
2	4M39464	WG251307-02 50PPM MEGAMIX STD	1	1	STD21155	09/28/07 08:23
3	4M39465	WG251308-01 50PPM TCL STD	1	1	STD20141	09/28/07 08:57
4	4M39466	L0709596-12 SOIL	7	1	SOIL	09/28/07 09:31
5	4M39467	L0709596-13 SOIL	7	1	SOIL	09/28/07 10:05
6	4M39468	L0709596-14 SOIL	7	1	SOIL	09/28/07 10:39
7	4M39469	WG251181-02 BLK 9/27 EP288 P39	7	1	SOIL	09/28/07 11:13
8	4M39470	WG251181-03 LCS 9/27 EP288 P39	7	1	SOIL	09/28/07 11:47
9	4M39471	L0709654-01 SOIL	7	1	SOIL	09/28/07 12:20
10	4M39472	L0709633-01 SOIL	7	1	SOIL	09/28/07 12:54
11	4M39473	L0709633-02 SOIL	7	1	SOIL	09/28/07 13:28
12	4M39474	L0709633-03 SOIL	7	1	SOIL	09/28/07 14:01
13	4M39475	L0709633-04 SOIL	7	1	SOIL	09/28/07 14:35
14	4M39476	L0709633-05 SOIL	7	1	SOIL	09/28/07 15:09
15	4M39477	L0709633-06 SOIL	7	1	SOIL	09/28/07 15:42
16	4M39478	L0709633-07 SOIL	7	1	SOIL	09/28/07 16:16
17	4M39479	L0709633-08 SOIL	7	1	SOIL	09/28/07 16:50
18	4M39480	L0709633-09 SOIL	7	1	SOIL	09/28/07 17:23
19	4M39481	L0709633-10 SOIL	7	1	SOIL	09/28/07 17:56
20	4M39482	L0709633-11 SOIL	7	1	SOIL	09/28/07 18:30
21	4M39483	L0709522-03	1	1		09/28/07 19:04
22	4M39484	L0709624-01 SOIL	7	1	SOIL	09/28/07 19:38
23	4M39485	BAKE OUT	1	1		09/28/07 20:13
24	4M39486	BAKE OUT	1	1		09/28/07 20:47
25	4M39487	BAKE OUT	1	1		09/28/07 21:21
26	4M39488	TCL BNA SURR SPIKE 2X	1	2		09/28/07 21:55

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10				
	L0709633-01 SOIL - SS TBP low, Needs re-extracted.			
11				
	L0709633-02 SOIL - SS TBP low, Needs re-extracted.			
16				
	L0709633-07 SOIL - SS TBP low, Needs re-extracted.			

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092807

Analyst1: CAA Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21057

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG251280, WG251388, WG251394

Internal STD: STD21429 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
19				
	L0709633-10 SOIL - SS TBP low, Needs re-extracted.			
21				
	L0709522-03 - SS TPH low.			

Approved: 01-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS5 Dataset: 100107
Analyst1: ASP Analyst2: MDC
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups:

Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments: Compound #48 only calibrated to 80ppm. Compounds #63, 77, 92, 109 only calibrated to 100ppm.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	5M48217	WG251507-01 50PPM DFTPP	1	1	STD21939	10/01/07 09:13
2	5M48218	WG251507-02 50PPM MEGAMIX STD	1	1	STD21155	10/01/07 09:32
3	5M48219	WG251507-03 3PPM MEGAMIX STD	1	1	STD21155	10/01/07 10:05
4	5M48220	WG251507-04 10PPM MEGAMIX STD	1	1	STD21155	10/01/07 10:39
5	5M48221	WG251507-05 15PPM MEGAMIX STD	1	1	STD21155	10/01/07 11:13
6	5M48222	WG251507-06 25PPM MEGAMIX STD	1	1	STD21155	10/01/07 11:46
7	5M48223	WG251507-07 80PPM MEGAMIX STD	1	1	STD21155	10/01/07 12:19
8	5M48224	WG251507-08 100PPM MEGAMIX STD	1	1	STD21155	10/01/07 12:53
9	5M48225	WG251507-09 120PPM MEGAMIX STD	1	1	STD21155	10/01/07 13:26
10	5M48226	WG251507-10 50PPM BNA ALT STD	1	1	STD21455	10/01/07 13:59
11	5M48227	WG251507-11 50PPM A9 ALT STD	1	1	STD21461	10/01/07 14:32
12	5M48228	WG251487-01 BLK EP288P65 SOIL	7	1	SOIL	10/01/07 15:05
13	5M48229	WG251487-02 LCS EP288P65 SOIL	7	1	SOIL	10/01/07 15:39
14	5M48230	WG251487-03 DUP EP288P65 SOIL	7	1	SOIL	10/01/07 16:12
15	5M48231	L0709733-01 SOIL	7	1	SOIL	10/01/07 16:45
16	5M48232	L0709733-02 SOIL	7	1	SOIL	10/01/07 17:19
17	5M48233	L0709733-03 SOIL	7	1	SOIL	10/01/07 17:52
18	5M48234	L0709733-04 SOIL	7	1	SOIL	10/01/07 18:25
19	5M48235	L0709733-05 SOIL	7	1	SOIL	10/01/07 18:58
20	5M48236	L0709733-06 SOIL	7	1	SOIL	10/01/07 19:31
21	5M48237	L0709733-07 SOIL	7	1	SOIL	10/01/07 20:04
22	5M48238	L0709733-08 SOIL	7	1	SOIL	10/01/07 20:38
23	5M48239	BAKE OUT	1	1		10/01/07 21:11
24	5M48240	BAKE OUT	1	1		10/01/07 21:45
25	5M48241	BAKE OUT	1	1		10/01/07 22:18

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10				
	Compound #37>30% D.			
11				
	Compounds #77, 83, 84, 91, 120>30% D.			
15	X		Over Calibration Range	
	need 10x #66, 50x #72			
16	X		Over Calibration Range	

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS5 Dataset: 100107
Analyst1: ASP Analyst2: MDC
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID:

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups:

Internal STD: STD21429 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	need 50x #66, #72			
17	X		Over Calibration Range	
	need 10x #66, 72			
18	X			
	need 10x #66, 50x #72			
19	X		Over Calibration Range	
	need 50x #66, 10x #72			
20				
	need 10x #66, 50x #72			
21	X		Over Calibration Range	
	need 10x #66, 72			
22	X		Over Calibration Range	
	need 10x #66, 72			

Approved: 02-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS12 Dataset: 100807
Analyst1: ASP Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21189

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251844
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M18894	WG252219-01 50PPM DFTPP	1	1	STD21155	10/08/07 10:59
2	12M18895	WG252219-02 50PPM BNA STD	1	1	STD22223	10/08/07 11:19
3	12M18896	WG252219-03 3PPM BNA STD	1	1	STD22223	10/08/07 11:51
4	12M18897	WG252219-04 15PM BNA STD	1	1	STD22223	10/08/07 12:24
5	12M18898	WG252219-05 25PM BNA STD	1	1	STD22223	10/08/07 12:56
6	12M18899	WG252219-06 80PM BNA STD	1	1	STD22223	10/08/07 13:29
7	12M18900	WG252219-07 100PM BNA STD	1	1	STD22223	10/08/07 14:02
8	12M18901	WG252219-08 120PM BNA STD	1	1	STD22223	10/08/07 14:36
9	12M18902	WG252219-09 50PM Alt source BNA STD	1	1	STD21455	10/08/07 15:09
10	12M18903	WG252219-10 50PM Alt source A9 STD	1	1	STD21461	10/08/07 15:43
11	12M18904	WG251386-01 BLK EP287P97 RR	1	1		10/08/07 16:15
12	12M18905	L0709625-01	1	1		10/08/07 16:48
13	12M18906	L0709625-02	1	1		10/08/07 17:21
14	12M18907	L0709625-03	1	1		10/08/07 17:53
15	12M18908	L0709625-04	1	1		10/08/07 18:26
16	12M18909	L0709625-05	1	1		10/08/07 18:58
17	12M18910	L0709625-06	1	1		10/08/07 19:30
18	12M18911	L0709625-07	1	1		10/08/07 20:03
19	12M18912	L0709625-08	1	1		10/08/07 20:35
20	12M18913	L0709625-09	1	1		10/08/07 21:07
21	12M18914	L0709625-10	1	1		10/08/07 21:39
22	12M18915	L0709625-11	1	1		10/08/07 22:11
23	12M18916	bake out	1	1		10/08/07 22:43
24	12M18917	bake out	1	1		10/08/07 23:16
25	12M18918	bake out	1	1		10/08/07 23:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9				
	WG252219-09 50PM Alt source BNA STD- Three compounds high in the alt source.			
14				
	L0709625-03- Surr 2FP, FBP, TPH low, sent for RE.			
15				
	L0709625-04- Surr TPH low.			

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS5 Dataset: 100807
Analyst1: ASP Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21177

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG252133
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	5M48333	WG252253-01 50PPM DFTPP	1	1	STD21939	10/08/07 14:12
2	5M48334	WG252253-01 50PPM DFTPP	1	1	STD21939	10/08/07 14:32
3	5M48335	WG252253-02 50PPM MEGAMIX STD	1	1	STD21155	10/08/07 14:52
4	5M48336	L0709625-01	1	1	STD21155	10/08/07 15:26
5	5M48337	WG251302-01 BLK 9/28 EP288P57	7	1	SOIL	10/08/07 16:01
6	5M48338	WG251302-02 LCS 9/28 EP288P57	7	1	SOIL	10/08/07 16:35
7	5M48339	WG251302-03 LCS DUP 9/28 EP288P57	7	1	SOIL	10/08/07 17:10
8	5M48340	L0709522-08 RE	7	1	SOIL	10/08/07 17:44
9	5M48341	L0709522-06 RE	7	1	SOIL	10/08/07 18:17
10	5M48342	L0709522-05 10X RE	7	10	SOIL	10/08/07 18:51
11	5M48343	L0709522-01 10X RE	7	10	SOIL	10/08/07 19:24
12	5M48344	L0709555-01 50X RE	7	50	SOIL	10/08/07 19:57
13	5M48345	L0709555-02 50X RE	7	50	SOIL	10/08/07 20:30
14	5M48346	L0709555-04 50X RE	7	50	SOIL	10/08/07 21:04
15	5M48347	L0709555-07 50X RE	7	50	SOIL	10/08/07 21:37
16	5M48348	L0709555-03 50X RE	7	50	SOIL	10/08/07 22:10
17	5M48349	L0709522-07 50X RE	7	50	SOIL	10/08/07 22:44
18	5M48350	L0709522-02 10X RE	7	10	SOIL	10/08/07 23:18
19	5M48351	L0709522-04 10X RE	7	10	SOIL	10/08/07 23:52
20	5M48352	L0709555-05 10X RE	7	10	SOIL	10/09/07 00:25
21	5M48353	L0709555-06 10X RE	7	10	SOIL	10/09/07 00:59
22	5M48354	BAKEOUT	7	10	SOIL	10/09/07 01:33
23	5M48355	BAKEOUT	7	10	SOIL	10/09/07 02:07
24	5M48356	BAKEOUT	7	10	SOIL	10/09/07 02:40

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4				
	L0709625-01- not reported, will report run on HPMS12.			
8				
	L0709522-08 RE- vial was not recapped and sample evaporated, needs RR.			
19				
	L0709522-04 10X RE- Surr FBP low.			
20				
	L0709555-05 10X RE- Surr FBP low.			

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS5 Dataset: 100807

Analyst1: ASP Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21177

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG252133

Internal STD: STD21429 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
21				
	L0709555-06 10X RE- Surr FBP, TPH low.			

Approved: 09-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS12 Dataset: 100907
Analyst1: ASP Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21195

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG252133, WG251844, WG252362
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M18919	WG252377-01 50PPM DFTPP	1	1	STD21939	10/09/07 13:47
2	12M18920	WG252377-02 50PPM MEGAMIX STD	1	1	STD22223	10/09/07 14:06
3	12M18921	WG251302-01 BLK EP288P57 SOIL	7	1	SOIL	10/09/07 14:38
4	12M18922	WG251679-01 BLK EP288P81 SOIL	10	1	SOIL	10/09/07 15:11
5	12M18923	50PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 15:43
6	12M18924	5PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 16:15
7	12M18925	12.5PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 16:48
8	12M18926	25PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 17:20
9	12M18927	75PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 17:53
10	12M18928	100PPM 2,4-diaminotoluene STD	1	1	STD22390	10/09/07 18:25
11	12M18929	L0710003-04 3550B MDL	10	1	SOIL	10/09/07 18:58
12	12M18930	L0710003-05 3550B MDL	10	1	SOIL	10/09/07 19:30
13	12M18931	L0710004-04 3550B MDL	10	1	SOIL	10/09/07 20:04
14	12M18932	L0710004-05 3550B MDL	10	1	SOIL	10/09/07 20:37
15	12M18933	L0709625-12	1	1		10/09/07 21:10
16	12M18934	L0709625-13	1	1		10/09/07 21:43
17	12M18935	L0709625-14	1	1		10/09/07 22:16
18	12M18936	L0709625-15	1	1		10/09/07 22:49
19	12M18937	L0709522-08 RE SOIL	7	1	SOIL	10/09/07 23:21
20	12M18938	BAKE OUT	1	1		10/09/07 23:53
21	12M18939	BAKE OUT	1	1		10/10/07 00:25
22	12M18940	BAKE OUT	1	1		10/10/07 00:58

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4				
	WG251679-01 BLK EP288P81 SOIL- Surr TPH high.			

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KEMRON Environmental Services
Data Checklist

Date: 24-SEP-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18458
Analytical Workgroups: ICAL ONLY

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	NA
TCL hits	NA
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	NA
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	NA
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
27-SEP-2007

Secondary Reviewer:
27-SEP-2007

Generated: SEP-27-2007 15:17:17

KEMRON Environmental Services
Data Checklist

Date: 26-SEP-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18465
Analytical Workgroups: L0709373, L0709406, L0709485

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
27-SEP-2007

Secondary Reviewer:
28-SEP-2007

Generated: SEP-28-2007 08:33:46

KEMRON Environmental Services
Data Checklist

Date: 28-SEP-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18493
Analytical Workgroups: L0709596, L0709654, L0709633, L0709522, L0709624

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
01-OCT-2007

Secondary Reviewer:
01-OCT-2007

Generated: OCT-01-2007 12:36:56

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: ASP
Analyst: MDC
Method: 8270
Instrument: HPMS5
Curve Workgroup: NA
Runlog ID: 18522
Analytical Workgroups: L0709733 (10/2)

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MDC
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	ECL

Primary Reviewer:
02-OCT-2007

Secondary Reviewer:
02-OCT-2007

Generated: OCT-02-2007 12:33:59

KEMRON Environmental Services
Data Checklist

Date: 08-OCT-2007
Analyst: ASP
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 18659
Analytical Workgroups: L0709625

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	NA
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	ASP
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
09-OCT-2007

Secondary Reviewer:
10-OCT-2007

Generated: OCT-10-2007 09:23:53

KEMRON Environmental Services
Data Checklist

Date: 08-OCT-2007
Analyst: ASP
Analyst: NA
Method: 8270
Instrument: HPMS5
Curve Workgroup: NA
Runlog ID: 18644
Analytical Workgroups: L0709522, L0709555

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	NA
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ASP
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
09-OCT-2007

Secondary Reviewer:
09-OCT-2007

Generated: OCT-09-2007 11:52:18

KEMRON Environmental Services
Data Checklist

Date: 09-OCT-2007
Analyst: ASP
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 18666
Analytical Workgroups: L0709625, L0709522, L0710003 MDL, L0710004 MDL

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	X
Calculations & correct factors	NA
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	ASP
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
10-OCT-2007

Secondary Reviewer:
10-OCT-2007

Generated: OCT-10-2007 12:52:28

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG252133
Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0079-SO-092007	09/20/07	09/21/07	09/28/07	14	7.70	10/08/07	40	10.4	
0077-SO-092007	09/20/07	09/21/07	09/28/07	14	7.75	10/08/07	40	10.7	
0076-SO-092007/FD	09/20/07	09/21/07	09/28/07	14	7.84	10/08/07	40	10.6	
0081-SO-092007	09/20/07	09/21/07	09/28/07	14	7.65	10/09/07	40	11.6	
0080-SO-092007	09/20/07	09/21/07	09/28/07	14	7.66	10/08/07	40	10.6	
0078-SO-092007	09/20/07	09/21/07	09/28/07	14	7.73	10/08/07	40	10.5	
0076-SO-092007	09/20/07	09/21/07	09/28/07	14	7.84	10/08/07	40	10.5	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG251280

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0076-GW-092007	09/20/07	09/21/07	09/24/07	7	3.85	09/28/07	40	4.44	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

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Report generated 10/10/2007 14:06

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS5
Workgroup (AAB#): WG252133

Method: 8270
CAL ID: HPMS5-01-OCT-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L0709522-01	10.0	DL01	64.6	46.5	46.2	48.7	68.8	53.1
L0709522-02	10.0	DL01	61.4	47.2	50.6	51.0	60.8	52.5
L0709522-04	10.0	DL01	51.8	27.7	33.0	30.7	50.6	32.1
L0709522-05	10.0	DL01	51.7	42.0	45.7	41.4	63.7	43.7
L0709522-06	1.00	01	57.4	36.6	42.1	45.4	81.2	44.4
L0709522-07	50.0	DL01	DL	DL	DL	DL	DL	DL
WG251302-01	1.00	02	75.5	61.3	60.8	61.6	79.9	63.5
WG251302-02	1.00	02	84.2	50.4	50.0	49.8	84.5	54.0
WG251302-03	1.00	02	82.3	50.0	48.8	48.1	79.8	52.6

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 885217
Report generated 10/10/2007 14:06

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS12
Workgroup (AAB#): WG252133

Method: 8270
CAL ID: HPMS12-08-OCT-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L0709522-08	1.00	01	47.7	42.9	47.0	53.9	85.0	54.4

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

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KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709522
Instrument Id: HPMS4
Workgroup (AAB#): WG251280

Method: 8270
CAL ID: HPMS4-24-SEP-07
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4	5	6
L0709522-03	1.00	01	77.1	70.7	68.1	82.7	22.5	74.8
WG250685-02	1.00	01	60.3	60.7	58.1	65.4	88.8	65.6
WG250685-03	1.00	01	74.8	68.4	64.2	66.9	99.1	72.4

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	10	-	123
2 - 2-Fluorobiphenyl	43	-	116
3 - 2-Fluorophenol	21	-	110
4 - Nitrobenzene-d5	35	-	114
5 - p-Terphenyl-d14	33	-	141
6 - Phenol-d5	10	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 885217
Report generated 10/10/2007 14:06

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709522	**Work Group:**	WG251280
Blank File ID:	4M39410	**Blank Sample ID:**	WG250685-02
Prep Date:	09/24/07 08:30	**Instrument ID:**	HPMS4
Analyzed Date:	09/26/07 14:57	**Method:**	8270C
Analyst:	CAA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG250685-03	4M39411	09/26/07 15:31	01
0076-GW-092007	L0709522-03	4M39483	09/28/07 19:04	01

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number: L0709522
Work Group: WG252133
Blank File ID: 5M48337
Blank Sample ID: WG251302-01
Prep Date: 09/28/07 08:00
Instrument ID: HPMS5
Analyzed Date: 10/08/07 16:01
Method: 8270C
Analyst: asp

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251302-02	5M48338	10/08/07 16:35	02
LCS2	WG251302-03	5M48339	10/08/07 17:10	02
0079-SO-092007	L0709522-06	5M48341	10/08/07 18:17	01
0078-SO-092007	L0709522-05	5M48342	10/08/07 18:51	DL01
0076-SO-092007	L0709522-01	5M48343	10/08/07 19:24	DL01
0080-SO-092007	L0709522-07	5M48349	10/08/07 22:44	DL01
0076-SO-092007/FD	L0709522-02	5M48350	10/08/07 23:18	DL01
0077-SO-092007	L0709522-04	5M48351	10/08/07 23:52	DL01
0081-SO-092007	L0709522-08	12M18937	10/09/07 23:21	01

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/24/07 08:30 Sample ID: WG250685-02
Instrument ID: HPMS4 Run Date: 09/26/07 14:57 Prep Method: 3520C
File ID: 4M39410 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251280 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS4-24-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	2.50	5.00	5.00	1	U
2,4,6-Trichlorophenol	2.50	5.00	5.00	1	U
2,4-Dichlorophenol	2.50	5.00	5.00	1	U
2,4-Dimethylphenol	2.50	5.00	5.00	1	U
2,4-Dinitrophenol	12.5	25.0	25.0	1	U
2,4-Dinitrotoluene	2.50	5.00	5.00	1	U
2,6-Dinitrotoluene	2.50	5.00	5.00	1	U
2-Chloronaphthalene	2.50	5.00	5.00	1	U
2-Chlorophenol	2.50	5.00	5.00	1	U
2-Methylnaphthalene	2.50	5.00	5.00	1	U
2-Methylphenol	2.50	5.00	5.00	1	U
2-Nitroaniline	12.5	25.0	25.0	1	U
2-Nitrophenol	2.50	5.00	5.00	1	U
3,3'-Dichlorobenzidine	2.50	5.00	5.00	1	U
3-,4-Methylphenol	2.50	5.00	5.00	1	U
3-Nitroaniline	12.5	25.0	25.0	1	U
4,6-Dinitro-2-methylphenol	12.5	25.0	25.0	1	U
4-Bromophenyl phenyl ether	2.50	5.00	5.00	1	U
4-Chloro-3-methylphenol	2.50	5.00	5.00	1	U
4-Chloroaniline	2.50	5.00	5.00	1	U
4-Chlorophenyl phenyl ether	2.50	5.00	5.00	1	U
4-Nitroaniline	12.5	25.0	25.0	1	U
4-Nitrophenol	12.5	25.0	25.0	1	U
Acenaphthene	2.50	5.00	5.00	1	U
Acenaphthylene	2.50	5.00	5.00	1	U
Anthracene	2.50	5.00	5.00	1	U
Benzo(a)anthracene	2.50	5.00	5.00	1	U
Benzo(a)pyrene	2.50	5.00	5.00	1	U
Benzo(b)fluoranthene	2.50	5.00	5.00	1	U
Benzo(g,h,i)Perylene	2.50	5.00	5.00	1	U
Benzo(k)fluoranthene	2.50	5.00	5.00	1	U
Bis(2-Chloroethoxy)Methane	2.50	5.00	5.00	1	U
Bis(2-Chloroethyl)ether	2.50	5.00	5.00	1	U
bis(2-Chloroisopropyl)ether	2.50	5.00	5.00	1	U
bis(2-Ethylhexyl)phthalate	2.50	5.00	5.00	1	U
Butyl benzyl phthalate	2.50	5.00	5.00	1	U
Carbazole	2.50	20.0	20.0	1	U
Chrysene	2.50	5.00	5.00	1	U
Dibenz(a,h)anthracene	2.50	5.00	5.00	1	U
Dibenzofuran	2.50	5.00	5.00	1	U
Diethyl phthalate	2.50	5.00	5.00	1	U
Dimethyl phthalate	2.50	5.00	5.00	1	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/24/07 08:30 Sample ID: WG250685-02
Instrument ID: HPMS4 Run Date: 09/26/07 14:57 Prep Method: 3520C
File ID: 4M39410 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251280 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS4-24-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	2.50	5.00	5.00	1	U
Di-n-octyl phthalate	2.50	5.00	5.00	1	U
Fluoranthene	2.50	5.00	5.00	1	U
Fluorene	2.50	5.00	5.00	1	U
Hexachlorobenzene	2.50	5.00	5.00	1	U
Hexachlorobutadiene	2.50	5.00	5.00	1	U
Hexachlorocyclopentadiene	2.50	5.00	5.00	1	U
Hexachloroethane	2.50	5.00	5.00	1	U
Indeno(1,2,3-cd)pyrene	2.50	5.00	5.00	1	U
Isophorone	2.50	5.00	5.00	1	U
Naphthalene	2.50	5.00	5.00	1	U
Nitrobenzene	2.50	5.00	5.00	1	U
N-Nitrosodiphenylamine	2.50	5.00	5.00	1	U
N-Nitrosodipropylamine	2.50	5.00	5.00	1	U
Pentachlorophenol	12.5	25.0	25.0	1	U
Phenanthrene	2.50	5.00	5.00	1	U
Phenol	2.50	5.00	5.00	1	U
Pyrene	2.50	5.00	5.00	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	60.3	10 - 123	PASS
2-Fluorobiphenyl	60.7	43 - 116	PASS
2-Fluorophenol	58.1	21 - 110	PASS
Nitrobenzene-d5	65.4	35 - 114	PASS
p-Terphenyl-d14	88.8	33 - 141	PASS
Phenol-d5	65.6	10 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
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Report generated 10/10/2007 14:06

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/28/07 08:00 Sample ID: WG251302-01
Instrument ID: HPMS5 Run Date: 10/08/07 16:01 Prep Method: 3545
File ID: 5M48337 Analyst: asp Method: 8270C
Workgroup (AAB#): WG252133 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS5-01-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

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Version 1.5 PDF File ID: 885180
Report generated 10/10/2007 14:06

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/28/07 08:00 Sample ID: WG251302-01
Instrument ID: HPMS5 Run Date: 10/08/07 16:01 Prep Method: 3545
File ID: 5M48337 Analyst: asp Method: 8270C
Workgroup (AAB#): WG252133 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS5-01-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	75.5	19 - 122	PASS
2-Fluorobiphenyl	61.3	30 - 115	PASS
2-Fluorophenol	60.8	25 - 121	PASS
Nitrobenzene-d5	61.6	23 - 120	PASS
p-Terphenyl-d14	79.9	18 - 137	PASS
Phenol-d5	63.5	24 - 113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 885180
Report generated 10/10/2007 14:06

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG250685-03
Instrument ID: HPMS4 Run Time: 15:31 Prep Method: 3520C
File ID: 4M39411 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251280 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: Cal ID: HPMS4-24-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4,5-Trichlorophenol	50.0	39.0	77.9	49 - 120	
2,4,6-Trichlorophenol	50.0	38.1	76.2	49 - 126	
2,4-Dichlorophenol	50.0	33.9	67.7	48 - 120	
2,4-Dimethylphenol	50.0	35.6	71.3	28 - 120	
2,4-Dinitrophenol	50.0	36.2	72.3	25 - 130	
2,4-Dinitrotoluene	50.0	40.6	81.2	51 - 120	
2,6-Dinitrotoluene	50.0	35.3	70.6	49 - 120	
2-Chloronaphthalene	50.0	29.1	58.3	49 - 120	
2-Chlorophenol	50.0	34.3	68.5	37 - 120	
2-Methylnaphthalene	50.0	30.4	60.8	46 - 120	
2-Methylphenol	50.0	36.1	72.3	38 - 120	
2-Nitroaniline	50.0	38.0	76.0	48 - 120	
2-Nitrophenol	50.0	30.6	61.2	39 - 123	
3,3'-Dichlorobenzidine	50.0	37.7	75.5	30 - 120	
3-,4-Methylphenol	50.0	42.1	84.2	50 - 120	
3-Nitroaniline	50.0	40.8	81.6	20 - 126	
4,6-Dinitro-2-methylphenol	50.0	40.0	79.9	40 - 130	
4-Bromophenyl phenyl ether	50.0	32.6	65.3	52 - 120	
4-Chloro-3-methylphenol	50.0	35.2	70.3	47 - 120	
4-Chloroaniline	50.0	32.9	65.7	30 - 120	
4-Chlorophenyl phenyl ether	50.0	34.3	68.6	50 - 120	
4-Nitroaniline	50.0	41.3	82.5	36 - 120	
4-Nitrophenol	50.0	35.6	71.2	20 - 120	
Acenaphthene	50.0	34.9	69.8	47 - 120	
Acenaphthylene	50.0	35.3	70.7	50 - 120	
Anthracene	50.0	40.0	80.1	54 - 120	
Benzo(a)anthracene	50.0	41.8	83.7	56 - 100	
Benzo(a)pyrene	50.0	40.9	81.9	53 - 120	
Benzo(b)fluoranthene	50.0	39.1	78.2	45 - 124	
Benzo(g,h,i)Perylene	50.0	42.2	84.4	38 - 123	
Benzo(k)fluoranthene	50.0	40.4	80.8	45 - 124	
Bis(2-Chloroethoxy)Methane	50.0	27.3	54.5	46 - 120	
Bis(2-Chloroethyl)ether	50.0	35.5	71.1	37 - 120	
bis(2-Chloroisopropyl)ether	50.0	36.2	72.4	26 - 131	
bis(2-Ethylhexyl)phthalate	50.0	44.7	89.4	42 - 126	
Butyl benzyl phthalate	50.0	44.8	89.5	46 - 120	
Carbazole	50.0	42.3	84.5	50 - 120	
Chrysene	50.0	42.3	84.7	55 - 120	
Dibenz(a,h)anthracene	50.0	42.3	84.6	42 - 127	
Dibenzofuran	50.0	35.2	70.4	54 - 120	
Diethyl phthalate	50.0	37.9	75.9	41 - 120	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG250685-03
Instrument ID: HPMS4 Run Time: 15:31 Prep Method: 3520C
File ID: 4M39411 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251280 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: Cal ID: HPMS4-24-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Dimethyl phthalate	50.0	37.1	74.3	25 - 127	
Di-N-Butylphthalate	50.0	42.0	83.9	54 - 120	
Di-n-octyl phthalate	50.0	43.7	87.4	37 - 137	
Fluoranthene	50.0	42.2	84.4	54 - 120	
Fluorene	50.0	36.7	73.3	50 - 120	
Hexachlorobenzene	50.0	37.6	75.3	52 - 120	
Hexachlorobutadiene	50.0	26.0	52.0	27 - 120	
Hexachlorocyclopentadiene	50.0	24.1	48.2	20 - 120	
Hexachloroethane	50.0	25.2	50.4	28 - 120	
Indeno(1,2,3-cd)pyrene	50.0	42.0	84.0	43 - 125	
Isophorone	50.0	36.1	72.2	50 - 120	
Naphthalene	50.0	28.6	57.3	39 - 120	
Nitrobenzene	50.0	32.5	65.0	44 - 120	
N-Nitrosodiphenylamine	50.0	33.1	66.2	48 - 120	
N-Nitrosodipropylamine	50.0	37.1	74.3	34 - 128	
Pentachlorophenol	50.0	43.6	87.2	38 - 120	
Phenanthrene	50.0	38.7	77.4	51 - 120	
Phenol	50.0	36.1	72.2	20 - 120	
Pyrene	50.0	41.5	83.1	49 - 128	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	74.8	10 - 123	PASS
2-Fluorobiphenyl	68.4	43 - 116	PASS
2-Fluorophenol	64.2	21 - 110	PASS
Nitrobenzene-d5	66.9	35 - 114	PASS
p-Terphenyl-d14	99.1	33 - 141	PASS
Phenol-d5	72.4	10 - 110	PASS

* FAILS %REC LIMIT

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709522 Analyst:asp Prep Method:3545
Instrument ID:HPMS5 Matrix:Soil Method:8270C
Workgroup (AAB#):WG252133 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD21456

Sample ID:WG251302-02 LCS File ID:5M48338 Run Date:10/08/2007 16:35
Sample ID:WG251302-03 LCS2 File ID:5M48339 Run Date:10/08/2007 17:10

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1470	58.9	2500	1460	58.4	0.799	49 - 125	30	
2,4,6-Trichlorophenol	2500	1410	56.4	2500	1390	55.6	1.41	43 - 125	30	
2,4-Dichlorophenol	2500	1220	48.6	2500	1220	48.7	0.135	45 - 125	30	
2,4-Dimethylphenol	2500	1210	48.2	2500	1170	46.9	2.78	32 - 125	30	
2,4-Dinitrophenol	2500	1940	77.6	2500	1930	77.1	0.643	25 - 132	30	
2,4-Dinitrotoluene	2500	1750	69.9	2500	1680	67.4	3.71	48 - 125	30	
2,6-Dinitrotoluene	2500	1640	65.7	2500	1590	63.7	3.07	48 - 125	30	
2-Chloronaphthalene	2500	1040	41.7	2500	1040	41.4	0.572	45 - 125	30	*
2-Chlorophenol	2500	1290	51.6	2500	1290	51.8	0.290	44 - 125	30	
2-Methylnaphthalene	2500	1260	50.5	2500	1220	48.8	3.35	47 - 125	30	
2-Methylphenol	2500	1220	48.9	2500	1250	50.0	2.38	40 - 125	30	
2-Nitroaniline	2500	1590	63.7	2500	1530	61.3	3.92	44 - 125	30	
2-Nitrophenol	2500	1130	45.3	2500	1160	46.3	2.17	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1490	59.7	2500	1450	57.9	3.14	20 - 128	30	
3-,4-Methylphenol	2500	1400	56.1	2500	1410	56.5	0.672	50 - 120	30	
3-Nitroaniline	2500	1580	63.3	2500	1540	61.4	3.09	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	2120	84.8	2500	2080	83.3	1.78	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1680	67.3	2500	1620	65.0	3.50	46 - 125	30	
4-Chloro-3-methylphenol	2500	1440	57.8	2500	1400	56.0	3.11	46 - 125	30	
4-Chloroaniline	2500	1060	42.3	2500	1040	41.7	1.56	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1600	64.0	2500	1550	62.1	3.00	47 - 125	30	
4-Nitroaniline	2500	1440	57.4	2500	1380	55.2	3.97	34 - 125	30	
4-Nitrophenol	2500	1730	69.1	2500	1670	66.8	3.39	25 - 138	30	
Acenaphthene	2500	1400	56.1	2500	1370	55.0	1.90	46 - 125	30	
Acenaphthylene	2500	1380	55.1	2500	1340	53.7	2.65	44 - 125	30	
Anthracene	2500	1990	79.7	2500	1910	76.6	3.96	53 - 125	30	
Benzo(a)anthracene	2500	2140	85.7	2500	2050	82.0	4.47	52 - 125	30	
Benzo(a)pyrene	2500	2150	85.8	2500	2070	82.8	3.64	50 - 125	30	
Benzo(b)fluoranthene	2500	1650	66.0	2500	1650	66.1	0.163	45 - 125	30	
Benzo(g,h,i)Perylene	2500	2170	86.7	2500	1880	75.3	14.0	38 - 126	30	
Benzo(k)fluoranthene	2500	2170	86.7	2500	2060	82.5	4.98	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	856	34.2	2500	839	33.6	1.99	43 - 125	30	*
Bis(2-Chloroethyl)ether	2500	1210	48.4	2500	1210	48.2	0.418	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1210	48.3	2500	1180	47.1	2.50	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	2500	100	2500	2330	93.3	6.95	47 - 127	30	
Butyl benzyl phthalate	2500	2250	90.1	2500	2120	85.0	5.81	49 - 125	30	
Carbazole	2500	1860	74.3	2500	1790	71.5	3.81	40 - 135	30	
Chrysene	2500	2210	88.3	2500	2120	85.0	3.81	53 - 125	30	
Dibenz(a,h)anthracene	2500	2090	83.7	2500	1820	72.8	14.0	41 - 125	30	
Dibenzofuran	2500	1440	57.7	2500	1390	55.6	3.73	51 - 125	30	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709522 Analyst:asp Prep Method:3545
Instrument ID:HPMS5 Matrix:Soil Method:8270C
Workgroup (AAB#):WG252133 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD21456

Sample ID:WG251302-02 LCS File ID:5M48338 Run Date:10/08/2007 16:35
Sample ID:WG251302-03 LCS2 File ID:5M48339 Run Date:10/08/2007 17:10

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1990	79.4	2500	1880	75.4	5.19	50 - 125	30	
Dimethyl phthalate	2500	1740	69.4	2500	1670	66.9	3.78	49 - 125	30	
Di-N-Butylphthalate	2500	2220	88.9	2500	2110	84.4	5.21	56 - 125	30	
Di-n-octyl phthalate	2500	2270	90.7	2500	2160	86.4	4.78	41 - 132	30	
Fluoranthene	2500	1880	75.3	2500	1830	73.0	3.04	54 - 125	30	
Fluorene	2500	1480	59.3	2500	1430	57.2	3.59	49 - 125	30	
Hexachlorobenzene	2500	2070	82.8	2500	1970	79.0	4.71	47 - 125	30	
Hexachlorobutadiene	2500	1330	53.0	2500	1310	52.5	0.994	40 - 125	30	
Hexachlorocyclopentadiene	2500	1180	47.3	2500	1160	46.4	1.93	10 - 150	30	
Hexachloroethane	2500	1270	50.9	2500	1230	49.2	3.35	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	2110	84.4	2500	1830	73.2	14.3	38 - 125	30	
Isophorone	2500	1410	56.5	2500	1380	55.0	2.69	43 - 125	30	
Naphthalene	2500	1120	44.8	2500	1100	44.1	1.50	40 - 125	30	
Nitrobenzene	2500	1200	47.8	2500	1180	47.0	1.68	41 - 125	30	
N-Nitrosodiphenylamine	2500	1630	65.2	2500	1550	62.1	4.90	49 - 125	30	
N-Nitrosodipropylamine	2500	1310	52.3	2500	1280	51.2	2.18	40 - 125	30	
Pentachlorophenol	2500	2230	89.0	2500	2200	88.0	1.12	25 - 125	30	
Phenanthrene	2500	2000	79.8	2500	1920	76.7	3.91	50 - 125	30	
Phenol	2500	1270	50.7	2500	1240	49.6	2.25	39 - 125	30	
Pyrene	2500	2030	81.2	2500	1940	77.7	4.43	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	50.0	48.8	25 - 121	PASS
Phenol-d5	54.0	52.6	24 - 113	PASS
Nitrobenzene-d5	49.8	48.1	23 - 120	PASS
2-Fluorobiphenyl	50.4	50.0	30 - 115	PASS
2,4,6-Tribromophenol	84.2	82.3	19 - 122	PASS
p-Terphenyl-d14	84.5	79.8	18 - 137	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG252219-01
Instrument: HPMS12 Run Date: 10/08/2007
Analyst: asp Run Time: 10:59
Workgroup: WG252219 File ID: 12M18894
Cal ID: HPMS12-08-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	35.3	35853	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	39.7	40293	PASS
70.0	69.0	0	2.00	0.635	256	PASS
127	198	40.0	60.0	51.4	52208	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	101573	PASS
199	198	5.00	9.00	7.12	7237	PASS
275	198	10.0	30.0	24.4	24792	PASS
365	198	1.00	100	2.69	2733	PASS
441	443	0.0100	100	80.1	9609	PASS
442	198	40.0	100	61.9	62864	PASS
443	442	17.0	23.0	19.1	11995	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252219-02	STD-CCV	01	10/08/2007 11:19	
WG252219-03	STD	01	10/08/2007 11:51	
WG252219-04	STD	01	10/08/2007 12:24	
WG252219-05	STD	01	10/08/2007 12:56	
WG252219-06	STD	01	10/08/2007 13:29	
WG252219-07	STD	01	10/08/2007 14:02	
WG252219-08	STD	01	10/08/2007 14:36	
WG252219-09	SSCV	01	10/08/2007 15:09	
WG252219-10	SSCV	01	10/08/2007 15:43	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 900291
Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG252377-01
Instrument: HPMS12 Run Date: 10/09/2007
Analyst: asp Run Time: 13:47
Workgroup: WG252377 File ID: 12M18919
Cal ID: HPMS12-08-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	33.8	39010	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	38.0	43893	PASS
70.0	69.0	0	2.00	0.576	253	PASS
127	198	40.0	60.0	49.3	56898	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	115504	PASS
199	198	5.00	9.00	7.01	8102	PASS
275	198	10.0	30.0	24.1	27810	PASS
365	198	1.00	100	2.87	3316	PASS
441	443	0.0100	100	81.2	11273	PASS
442	198	40.0	100	61.8	71338	PASS
443	442	17.0	23.0	19.4	13875	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252377-02	CCV	01	10/09/2007 14:06	
L0709522-08	0081-SO-092007	01	10/09/2007 23:21	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 900291
Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG250777-01
Instrument: HPMS4 Run Date: 09/24/2007
Analyst: CAA Run Time: 08:07
Workgroup: WG250777 File ID: 4M39395
Cal ID: HPMS4-24-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	49.6	90781	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	48.2	88081	PASS
70.0	69.0	0	2.00	0.400	352	PASS
127	198	40.0	60.0	49.1	89840	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	182890	PASS
199	198	5.00	9.00	6.81	12455	PASS
275	198	10.0	30.0	25.1	45898	PASS
365	198	1.00	100	2.58	4712	PASS
441	443	0.0100	100	75.7	21058	PASS
442	198	40.0	100	77.9	142432	PASS
443	442	17.0	23.0	19.5	27818	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG250777-04	STD	01	09/24/2007 09:00	
WG250777-05	STD	01	09/24/2007 09:35	
WG250777-06	STD	01	09/24/2007 10:09	
WG250777-07	STD	01	09/24/2007 10:43	
WG250777-08	STD	01	09/24/2007 11:17	
WG250777-09	STD	01	09/24/2007 11:51	
WG250777-03	STD	01	09/24/2007 12:25	
WG250777-02	STD-CCV	01	09/24/2007 13:35	
WG250777-11	SSCV	01	09/24/2007 14:09	
WG250777-10	SSCV	01	09/24/2007 14:44	

* Sample past 12 hour tune limit

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG251131-01
Instrument: HPMS4 Run Date: 09/26/2007
Analyst: CAA Run Time: 14:05
Workgroup: WG251131 File ID: 4M39408
Cal ID: HPMS4-24-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	42.6	97821	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.3	97178	PASS
70.0	69.0	0	2.00	0.390	379	PASS
127	198	40.0	60.0	46.6	107018	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	229760	PASS
199	198	5.00	9.00	6.70	15384	PASS
275	198	10.0	30.0	25.7	59042	PASS
365	198	1.00	100	2.69	6187	PASS
441	443	0.0100	100	73.9	27418	PASS
442	198	40.0	100	81.5	187264	PASS
443	442	17.0	23.0	19.8	37106	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251131-02	CCV	01	09/26/2007 14:23	
WG250685-02	BLANK	01	09/26/2007 14:57	
WG250685-03	LCS	01	09/26/2007 15:31	
WG250685-01	REF	01	09/26/2007 18:54	
WG250685-04	MS	01	09/26/2007 19:28	
WG250685-05	MSD	01	09/26/2007 20:01	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 900291
Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG251307-01
Instrument: HPMS4 Run Date: 09/28/2007
Analyst: CAA Run Time: 08:04
Workgroup: WG251307 File ID: 4M39463
Cal ID: HPMS4-24-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	40.1	92602	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.8	94258	PASS
70.0	69.0	0	2.00	0.320	302	PASS
127	198	40.0	60.0	45.8	105829	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	230933	PASS
199	198	5.00	9.00	6.88	15884	PASS
275	198	10.0	30.0	26.1	60221	PASS
365	198	1.00	100	2.75	6349	PASS
441	443	0.0100	100	77.1	29170	PASS
442	198	40.0	100	85.6	197760	PASS
443	442	17.0	23.0	19.1	37813	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251307-02	CCV	01	09/28/2007 08:23	
L0709522-03	0076-GW-092007	01	09/28/2007 19:04	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 900291
Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG251507-01
Instrument: HPMS5 Run Date: 10/01/2007
Analyst: asp Run Time: 09:13
Workgroup: WG251507 File ID: 5M48217
Cal ID: HPMS5-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	32.5	19116	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	50.3	29520	PASS
70.0	69.0	0	2.00	0.918	271	PASS
127	198	40.0	60.0	50.9	29896	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	58744	PASS
199	198	5.00	9.00	7.22	4239	PASS
275	198	10.0	30.0	28.4	16701	PASS
365	198	1.00	100	4.06	2383	PASS
441	443	0.0100	100	85.6	5580	PASS
442	198	40.0	100	58.2	34208	PASS
443	442	17.0	23.0	19.1	6520	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251507-02	STD-CCV	01	10/01/2007 09:32	
WG251507-03	STD	01	10/01/2007 10:05	
WG251507-04	STD	01	10/01/2007 10:39	
WG251507-05	STD	01	10/01/2007 11:13	
WG251507-06	STD	01	10/01/2007 11:46	
WG251507-07	STD	01	10/01/2007 12:19	
WG251507-08	STD	01	10/01/2007 12:53	
WG251507-09	STD	01	10/01/2007 13:26	
WG251507-10	SSCV	01	10/01/2007 13:59	
WG251507-11	SSCV	01	10/01/2007 14:32	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
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Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709522 Tune ID: WG252253-01
Instrument: HPMS5 Run Date: 10/08/2007
Analyst: ASP Run Time: 14:32
Workgroup: WG252253 File ID: 5M48334
Cal ID: HPMS5-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	33.8	45786	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	47.6	64477	PASS
70.0	69.0	0	2.00	0.673	434	PASS
127	198	40.0	60.0	49.7	67293	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	135426	PASS
199	198	5.00	9.00	6.90	9350	PASS
275	198	10.0	30.0	28.9	39125	PASS
365	198	1.00	100	4.95	6703	PASS
441	443	0.0100	100	48.6	7962	PASS
442	198	40.0	100	63.8	86373	PASS
443	442	17.0	23.0	19.0	16382	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252253-02	CCV	01	10/08/2007 14:52	
WG251302-01	BLANK	02	10/08/2007 16:01	
WG251302-02	LCS	02	10/08/2007 16:35	
WG251302-03	LCS2	02	10/08/2007 17:10	
L0709522-06	0079-SO-092007	01	10/08/2007 18:17	
L0709522-05	0078-SO-092007	DL01	10/08/2007 18:51	
L0709522-01	0076-SO-092007	DL01	10/08/2007 19:24	
L0709522-07	0080-SO-092007	DL01	10/08/2007 22:44	
L0709522-02	0076-SO-092007/FD	DL01	10/08/2007 23:18	
L0709522-04	0077-SO-092007	DL01	10/08/2007 23:52	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
Version 1.3 PDF File ID: 900291
Report generated 10/10/2007 14:06

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

ICAL Workgroup: WG250777 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3715	14.9		
2,4-Dichlorophenol	CCC	0.2881	9.85		
2-Nitrophenol	CCC	0.1639	20.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3119	9.11		
Acenaphthene	CCC	1.190	13.9		
Benzo[a]pyrene	CCC	1.307	7.25		
Di-n-Octyl Phthalate	CCC	1.680	12.6		
Fluoranthene	CCC	1.339	12.7		
Hexachlorobutadiene	CCC	0.1858	9.00		
Pentachlorophenol	CCC	0.1217	21.6	0.999	
Phenol	CCC	1.738	9.22		
n-Nitrosodiphenylamine	CCC	0.7657	12.5		
2,4-Dinitrophenol	SPCC	0.05550	60.1		0.998
4-Nitrophenol	SPCC	0.2543	11.1		
Hexachlorocyclopentadiene	SPCC	0.2365	26.0		0.992
n-Nitrosodipropylamine	SPCC	0.8888	13.3		
2,4,5-Trichlorophenol		0.4074	11.9		
2,4-Dimethylphenol		0.3080	10.4		
2,4-Dinitrotoluene		0.3057	25.4	0.997	
2,6-Dinitrotoluene		0.3009	18.0	0.999	
2-Chloronaphthalene		1.421	11.5		
2-Chlorophenol		1.428	7.89		
2-Methylnaphthalene		0.7183	10.1		
2-Methylphenol		1.159	8.74		
2-Nitroaniline		0.3513	6.81		
3,3'-Dichlorobenzidine		0.4201	8.51		
3-,4-Methylphenol		1.508	8.74		
3-Nitroaniline		0.3242	9.97		
4,6-Dinitro-2-Methylphenol		0.09308	30.9	0.998	
4-Bromophenyl Phenyl Ether		0.2503	10.1		
4-Chloroaniline		0.4239	7.57		
4-Chlorophenyl Phenyl Ether		0.6951	16.6		0.996
4-Nitroaniline		0.3456	6.86		
Acenaphthylene		1.981	12.5		
Anthracene		1.307	12.9		
Benzo[a]anthracene		1.307	10.2		
Benzo[b]fluoranthene		1.430	12.6		
Benzo[ghi]perylene		1.162	8.83		
Benzo[k]fluoranthene		1.322	8.02		
Butyl Benzyl Phthalate		0.6249	21.5		0.999
Carbazole		1.197	12.1		
Chrysene		1.290	11.1		
Di-n-Butyl Phthalate		1.549	14.1		
Dibenz[ah]anthracene		1.147	11.0		
Dibenzofuran		1.758	14.5		

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Version 1.5 PDF File ID: 900289
Report generated 10/10/2007 14:06

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

ICAL Workgroup: WG250777 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.496	11.0		
Dimethylphthalate		1.468	10.9		
Fluorene		1.415	14.1		
Hexachlorobenzene		0.2451	10.6		
Hexachloroethane		0.5959	8.81		
Indeno[1,2,3-cd]pyrene		1.342	10.2		
Isophorone		0.6582	9.45		
Naphthalene		1.064	9.75		
Nitrobenzene		0.3634	8.78		
Phenanthrene		1.296	13.0		
Pyrene		1.366	13.8		
bis(2-Chloroethoxy)methane		0.5232	13.7		
bis(2-Chloroethyl)ether		1.057	11.8		
bis(2-Chloroisopropyl)ether		2.178	11.7		
bis(2-Ethylhexyl)phthalate		0.9077	12.9		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

ICAL Workgroup: WG251507 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.4535	15.9	0.998	
2,4-Dichlorophenol	CCC	0.3522	12.7		
2-Nitrophenol	CCC	0.2217	19.5	0.997	
4-Chloro-3-Methylphenol	CCC	0.3864	12.2		
Acenaphthene	CCC	1.398	21.7	0.997	
Benzo[a]pyrene	CCC	1.417	13.8		
Di-n-Octyl Phthalate	CCC	1.422	16.7	0.998	
Fluoranthene	CCC	1.451	15.7	0.998	
Hexachlorobutadiene	CCC	0.2910	8.96		
Pentachlorophenol	CCC	0.1783	26.9	0.998	
Phenol	CCC	1.799	7.76		
n-Nitrosodiphenylamine	CCC	0.8021	13.5		
2,4-Dinitrophenol	SPCC	0.2499	39.2		0.996
4-Nitrophenol	SPCC	0.3713	13.9		
Hexachlorocyclopentadiene	SPCC	0.4671	11.5		
n-Nitrosodipropylamine	SPCC	1.224	13.2		
2,4,5-Trichlorophenol		0.4745	18.2	0.998	
2,4-Dimethylphenol		0.3835	15.6	0.998	
2,4-Dinitrotoluene		0.4995	23.0	0.996	
2,6-Dinitrotoluene		0.3501	12.9		
2-Chloronaphthalene		1.503	13.5		
2-Chlorophenol		1.369	8.54		
2-Methylnaphthalene		0.7741	13.8		
2-Methylphenol		1.094	10.4		
2-Nitroaniline		0.4112	6.26		
3,3'-Dichlorobenzidine		0.3935	8.80		
3-,4-Methylphenol		1.412	10.5		
3-Nitroaniline		0.3274	10.5		
4,6-Dinitro-2-Methylphenol		0.1649	28.2	0.998	
4-Bromophenyl Phenyl Ether		0.3085	12.5		
4-Chloroaniline		0.4849	12.1		
4-Chlorophenyl Phenyl Ether		0.8756	20.0		0.999
4-Nitroaniline		0.4175	14.1		
Acenaphthylene		2.019	14.4		
Anthracene		1.373	14.5		
Benzo[a]anthracene		1.277	12.5		
Benzo[b]fluoranthene		1.855	23.1	0.995	
Benzo[ghi]perylene		1.367	8.97		
Benzo[k]fluoranthene		1.447	16.3	0.997	
Butyl Benzyl Phthalate		0.6471	17.8	0.998	
Carbazole		1.165	14.8		
Chrysene		1.205	12.5		
Di-n-Butyl Phthalate		1.455	13.0		
Dibenz[ah]anthracene		1.506	16.6	0.998	
Dibenzofuran		1.938	17.8	0.997	

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KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

ICAL Workgroup: WG251507 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.523	12.1		
Dimethylphthalate		1.506	11.7		
Fluorene		1.647	18.7	0.997	
Hexachlorobenzene		0.3287	11.6		
Hexachloroethane		0.6707	10.3		
Indeno[1,2,3-cd]pyrene		1.706	16.7	0.998	
Isophorone		0.7434	10.3		
Naphthalene		1.153	11.4		
Nitrobenzene		0.4901	8.80		
Phenanthrene		1.382	12.8		
Pyrene		1.322	10.6		
bis(2-Chloroethoxy)methane		0.6264	11.9		
bis(2-Chloroethyl)ether		0.8087	9.90		
bis(2-Chloroisopropyl)ether		0.7300	8.88		
bis(2-Ethylhexyl)phthalate		0.6991	12.5		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

ICAL Workgroup: WG252219 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3632	11.9		
2,4-Dichlorophenol	CCC	0.2943	6.53		
2-Nitrophenol	CCC	0.1889	9.99		
4-Chloro-3-Methylphenol	CCC	0.3220	5.59		
Acenaphthene	CCC	1.027	4.72		
Benzo[a]pyrene	CCC	1.167	8.48		
Di-n-Octyl Phthalate	CCC	1.392	6.27		
Fluoranthene	CCC	1.287	4.09		
Hexachlorobutadiene	CCC	0.2059	1.81		
Pentachlorophenol	CCC	0.1315	12.2		
Phenol	CCC	1.717	2.24		
n-Nitrosodiphenylamine	CCC	0.6802	2.72		
2,4-Dinitrophenol	SPCC	0.1327	35.2	0.999	
4-Nitrophenol	SPCC	0.2516	6.55		
Hexachlorocyclopentadiene	SPCC	0.3389	13.8		
n-Nitrosodipropylamine	SPCC	0.8443	11.1		
2,4,5-Trichlorophenol		0.3836	10.9		
2,4-Dimethylphenol		0.3171	3.73		
2,4-Dinitrotoluene		0.3813	9.23		
2,6-Dinitrotoluene		0.3021	6.81		
2-Chloronaphthalene		1.274	2.14		
2-Chlorophenol		1.299	3.89		
2-Methylnaphthalene		0.6609	2.44		
2-Methylphenol		1.339	3.26		
2-Nitroaniline		0.3884	6.89		
3,3'-Dichlorobenzidine		0.4013	9.45		
3-,4-Methylphenol		1.514	1.81		
3-Nitroaniline		0.3046	5.20		
4,6-Dinitro-2-Methylphenol		0.1497	15.1	0.999	
4-Bromophenyl Phenyl Ether		0.2502	3.61		
4-Chloroaniline		0.4149	4.50		
4-Chlorophenyl Phenyl Ether		0.6589	3.03		
4-Nitroaniline		0.3048	7.40		
Acenaphthylene		1.657	2.72		
Anthracene		1.147	3.79		
Benzo[a]anthracene		1.218	1.17		
Benzo[b]fluoranthene		1.382	6.65		
Benzo[ghi]perylene		1.052	7.81		
Benzo[k]fluoranthene		1.182	5.06		
Butyl Benzyl Phthalate		0.5394	4.92		
Carbazole		1.059	3.27		
Chrysene		1.109	2.89		
Di-n-Butyl Phthalate		1.292	5.40		
Dibenz[ah]anthracene		1.119	10.6		
Dibenzofuran		1.504	2.47		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36
ICAL Workgroup: WG252219 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.199	3.60		
Dimethylphthalate		1.256	1.64		
Fluorene		1.204	10.2		
Hexachlorobenzene		0.2457	4.22		
Hexachloroethane		0.5750	2.99		
Indeno[1,2,3-cd]pyrene		1.298	9.56		
Isophorone		0.6361	3.00		
Naphthalene		1.003	2.13		
Nitrobenzene		0.3970	4.91		
Phenanthrene		1.150	3.76		
Pyrene		1.211	4.38		
bis(2-Chloroethoxy)methane		0.4140	3.19		
bis(2-Chloroethyl)ether		0.8986	8.21		
bis(2-Chloroisopropyl)ether		1.551	10.1		
bis(2-Ethylhexyl)phthalate		0.7415	5.47		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-02			WG250777-03			WG250777-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	335617.000	0.3759	3.00	12952.0000	0.2433	10.0	65323.0000	0.3854
2,4-Dichlorophenol	50.0	450743.000	0.2897	3.00	21261.0000	0.2226	10.0	92477.0000	0.3040
2-Nitrophenol	50.0	296926.000	0.1909	3.00	9731.00000	0.1019	10.0	36579.0000	0.1202
4-Chloro-3-Methylphenol	50.0	492567.000	0.3166	3.00	24667.0000	0.2582	10.0	99418.0000	0.3268
Acenaphthene	50.0	1026771.00	1.150	3.00	59449.0000	1.117	10.0	237691.000	1.402
Benzo[a]pyrene	50.0	1780876.00	1.303	3.00	87625.0000	1.166	10.0	369563.000	1.405
Di-n-Octyl Phthalate	50.0	2427330.00	1.777	3.00	105581.000	1.406	10.0	490022.000	1.862
Fluoranthene	50.0	1878097.00	1.308	3.00	106095.000	1.269	10.0	432004.000	1.544
Hexachlorobutadiene	50.0	277380.000	0.1783	3.00	15706.0000	0.1644	10.0	64495.0000	0.2120
Pentachlorophenol	50.0	183579.000	0.1278	NA	NA	NA	10.0	19580.0000	0.07000
Phenol	50.0	671810.000	1.762	3.00	36572.0000	1.542	10.0	141051.000	1.859
n-Nitrosodiphenylamine	50.0	1097800.00	0.7642	3.00	59681.0000	0.7138	10.0	241863.000	0.8644
2,4-Dinitrophenol	50.0	56901.0000	0.06370	NA	NA	NA	10.0	1378.00000	0.008100
4-Nitrophenol	50.0	221819.000	0.2484	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	214999.000	0.2408	3.00	5298.00000	0.09950	10.0	41470.0000	0.2446
n-Nitrosodipropylamine	50.0	346454.000	0.9088	3.00	19252.0000	0.8117	10.0	75354.0000	0.9932
2,4,5-Trichlorophenol	50.0	362901.000	0.4064	3.00	16014.0000	0.3008	10.0	71604.0000	0.4224
2,4-Dimethylphenol	50.0	483223.000	0.3106	3.00	25071.0000	0.2624	10.0	104347.000	0.3430
2,4-Dinitrotoluene	50.0	336915.000	0.3773	3.00	8484.00000	0.1593	10.0	35533.0000	0.2096
2,6-Dinitrotoluene	50.0	296403.000	0.3320	3.00	10161.0000	0.1908	10.0	41136.0000	0.2427
2-Chloronaphthalene	50.0	1219898.00	1.366	3.00	69849.0000	1.312	10.0	277079.000	1.635
2-Chlorophenol	50.0	545968.000	1.432	3.00	28677.0000	1.209	10.0	113594.000	1.497
2-Methylnaphthalene	50.0	1098789.00	0.7063	3.00	62894.0000	0.6584	10.0	250307.000	0.8227
2-Methylphenol	50.0	445802.000	1.169	3.00	23446.0000	0.9885	10.0	94655.0000	1.248
2-Nitroaniline	50.0	332319.000	0.3722	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	640593.000	0.4329	3.00	30561.0000	0.3707	10.0	132929.000	0.4467
3-,4-Methylphenol	50.0	578566.000	1.518	3.00	29791.0000	1.256	10.0	119789.000	1.579
3-Nitroaniline	50.0	301238.000	0.3374	NA	NA	NA	10.0	43906.0000	0.2590
4,6-Dinitro-2-Methylphenol	50.0	140874.000	0.09810	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	348932.000	0.2429	3.00	19091.0000	0.2283	10.0	79689.0000	0.2848
4-Chloroaniline	50.0	678506.000	0.4361	3.00	34096.0000	0.3569	10.0	125850.000	0.4137
4-Chlorophenyl Phenyl Ether	50.0	600707.000	0.6728	3.00	34795.0000	0.6535	10.0	143664.000	0.8475
4-Nitroaniline	50.0	306149.000	0.3429	NA	NA	NA	10.0	53177.0000	0.3137
Acenaphthylene	50.0	1713071.00	1.919	3.00	94822.0000	1.781	10.0	386930.000	2.283
Anthracene	50.0	1853750.00	1.291	3.00	102831.000	1.230	10.0	417937.000	1.494
Benzo[a]anthracene	50.0	1942098.00	1.312	3.00	102467.000	1.243	10.0	433093.000	1.455
Benzo[b]fluoranthene	50.0	1906973.00	1.396	3.00	112457.000	1.497	10.0	432358.000	1.643
Benzo[ghi]perylene	50.0	1577686.00	1.155	3.00	71129.0000	0.9468	10.0	324029.000	1.232
Benzo[k]fluoranthene	50.0	1875706.00	1.373	3.00	93751.0000	1.248	10.0	372266.000	1.415
Butyl Benzyl Phthalate	50.0	916296.000	0.6192	3.00	57648.0000	0.6992	10.0	219574.000	0.7378
Carbazole	50.0	1720913.00	1.198	3.00	90944.0000	1.088	10.0	371018.000	1.326
Chrysene	50.0	1910834.00	1.291	3.00	103571.000	1.256	10.0	435006.000	1.462

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-02			WG250777-03			WG250777-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	2252562.00	1.568	3.00	118594.000	1.418	10.0	488870.000	1.747
Dibenz[ah]anthracene	50.0	1581899.00	1.158	3.00	66284.0000	0.8824	10.0	327241.000	1.244
Dibenzofuran	50.0	1484671.00	1.663	3.00	87625.0000	1.646	10.0	349150.000	2.060
Diethylphthalate	50.0	1294196.00	1.450	3.00	71343.0000	1.340	10.0	284751.000	1.680
Dimethylphthalate	50.0	1268540.00	1.421	3.00	69853.0000	1.312	10.0	280908.000	1.657
Fluorene	50.0	1208343.00	1.353	3.00	71956.0000	1.352	10.0	285611.000	1.685
Hexachlorobenzene	50.0	341888.000	0.2380	3.00	18654.0000	0.2231	10.0	78912.0000	0.2820
Hexachloroethane	50.0	229809.000	0.6028	3.00	11937.0000	0.5033	10.0	48577.0000	0.6403
Indeno[1,2,3-cd]pyrene	50.0	1847458.00	1.352	3.00	79107.0000	1.053	10.0	376542.000	1.431
Isophorone	50.0	1038274.00	0.6674	3.00	56051.0000	0.5867	10.0	216188.000	0.7106
Naphthalene	50.0	1630911.00	1.048	3.00	93625.0000	0.9801	10.0	366430.000	1.204
Nitrobenzene	50.0	604792.000	0.3888	3.00	29137.0000	0.3050	10.0	104870.000	0.3447
Phenanthrene	50.0	1824589.00	1.270	3.00	104413.000	1.249	10.0	422133.000	1.509
Pyrene	50.0	1977958.00	1.337	3.00	113547.000	1.377	10.0	465017.000	1.563
bis(2-Chloroethoxy)methane	50.0	825918.000	0.5309	3.00	47550.0000	0.4977	10.0	183193.000	0.6021
bis(2-Chloroethyl)ether	50.0	405250.000	1.063	3.00	23984.0000	1.011	10.0	89098.0000	1.174
bis(2-Chloroisopropyl)ether	50.0	850401.000	2.231	3.00	48106.0000	2.028	10.0	177595.000	2.341
bis(2-Ethylhexyl)phthalate	50.0	1422962.00	0.9616	3.00	68080.0000	0.8257	10.0	291894.000	0.9808

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-05			WG250777-06			WG250777-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	156695.000	0.4285	25.0	194178.000	0.4044	80.0	651720.000	0.3929
2,4-Dichlorophenol	15.0	213765.000	0.3164	25.0	258680.000	0.3020	80.0	855261.000	0.2975
2-Nitrophenol	15.0	119456.000	0.1768	25.0	154105.000	0.1799	80.0	529042.000	0.1840
4-Chloro-3-Methylphenol	15.0	242013.000	0.3582	25.0	274888.000	0.3209	80.0	903803.000	0.3144
Acenaphthene	15.0	521699.000	1.427	25.0	620191.000	1.292	80.0	1860358.00	1.122
Benzo[a]pyrene	15.0	837034.000	1.443	25.0	1057183.00	1.361	80.0	3758888.00	1.316
Di-n-Octyl Phthalate	15.0	1171427.00	2.020	25.0	1367576.00	1.761	80.0	4657739.00	1.630
Fluoranthene	15.0	936355.000	1.579	25.0	1163108.00	1.463	80.0	3566752.00	1.262
Hexachlorobutadiene	15.0	135586.000	0.2007	25.0	170571.000	0.1991	80.0	536623.000	0.1867
Pentachlorophenol	15.0	68553.0000	0.1156	25.0	88403.0000	0.1112	80.0	403778.000	0.1429
Phenol	15.0	335681.000	2.043	25.0	374735.000	1.764	80.0	1194848.00	1.707
n-Nitrosodiphenylamine	15.0	542984.000	0.9158	25.0	658254.000	0.8279	80.0	2047084.00	0.7243
2,4-Dinitrophenol	15.0	10056.0000	0.02750	25.0	14772.0000	0.03080	80.0	125896.000	0.07590
4-Nitrophenol	15.0	88534.0000	0.2421	25.0	99525.0000	0.2073	80.0	440590.000	0.2656
Hexachlorocyclopentadiene	15.0	106307.000	0.2907	25.0	140439.000	0.2925	80.0	450059.000	0.2713
n-Nitrosodipropylamine	15.0	182065.000	1.108	25.0	194428.000	0.9152	80.0	582563.000	0.8323
2,4,5-Trichlorophenol	15.0	171249.000	0.4683	25.0	207864.000	0.4329	80.0	706571.000	0.4260
2,4-Dimethylphenol	15.0	239837.000	0.3550	25.0	277884.000	0.3244	80.0	879496.000	0.3060
2,4-Dinitrotoluene	15.0	124315.000	0.3399	25.0	159047.000	0.3313	80.0	599246.000	0.3613
2,6-Dinitrotoluene	15.0	123431.000	0.3375	25.0	150238.000	0.3129	80.0	559478.000	0.3373
2-Chloronaphthalene	15.0	606765.000	1.659	25.0	732610.000	1.526	80.0	2263467.00	1.365
2-Chlorophenol	15.0	263780.000	1.605	25.0	310447.000	1.461	80.0	1013441.00	1.448
2-Methylnaphthalene	15.0	547737.000	0.8107	25.0	652511.000	0.7617	80.0	2012580.00	0.7002
2-Methylphenol	15.0	218485.000	1.330	25.0	250647.000	1.180	80.0	794349.000	1.135
2-Nitroaniline	15.0	139253.000	0.3808	25.0	150260.000	0.3130	80.0	581739.000	0.3507
3,3'-Dichlorobenzidine	15.0	300294.000	0.4793	25.0	373273.000	0.4351	80.0	1295825.00	0.4170
3-,4-Methylphenol	15.0	284733.000	1.733	25.0	323744.000	1.524	80.0	1055380.00	1.508
3-Nitroaniline	15.0	122346.000	0.3345	25.0	145772.000	0.3036	80.0	578664.000	0.3489
4,6-Dinitro-2-Methylphenol	15.0	33095.0000	0.05580	25.0	47008.0000	0.05910	80.0	303541.000	0.1074
4-Bromophenyl Phenyl Ether	15.0	168390.000	0.2840	25.0	213640.000	0.2687	80.0	682844.000	0.2416
4-Chloroaniline	15.0	317420.000	0.4698	25.0	365167.000	0.4263	80.0	1272470.00	0.4427
4-Chlorophenyl Phenyl Ether	15.0	304600.000	0.8329	25.0	378516.000	0.7884	80.0	1084756.00	0.6540
4-Nitroaniline	15.0	142994.000	0.3910	25.0	168746.000	0.3515	80.0	580697.000	0.3501
Acenaphthylene	15.0	860403.000	2.353	25.0	1026678.00	2.138	80.0	3159326.00	1.905
Anthracene	15.0	926461.000	1.563	25.0	1124129.00	1.414	80.0	3485384.00	1.233
Benzo[a]anthracene	15.0	946552.000	1.511	25.0	1188084.00	1.385	80.0	3852495.00	1.240
Benzo[b]fluoranthene	15.0	970455.000	1.673	25.0	1169521.00	1.506	80.0	3663230.00	1.282
Benzo[ghi]perylene	15.0	743663.000	1.282	25.0	943741.000	1.215	80.0	3462949.00	1.212
Benzo[k]fluoranthene	15.0	873637.000	1.506	25.0	1042656.00	1.343	80.0	3615790.00	1.266
Butyl Benzyl Phthalate	15.0	483126.000	0.7711	25.0	562864.000	0.6561	80.0	1515138.00	0.4876
Carbazole	15.0	855324.000	1.443	25.0	1023140.00	1.287	80.0	3227438.00	1.142
Chrysene	15.0	934920.000	1.492	25.0	1175865.00	1.371	80.0	3771537.00	1.214

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-05			WG250777-06			WG250777-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	1137276.00	1.918	25.0	1327439.00	1.670	80.0	4113589.00	1.455
Dibenz[ah]anthracene	15.0	744657.000	1.284	25.0	953902.000	1.228	80.0	3392018.00	1.187
Dibenzofuran	15.0	753009.000	2.059	25.0	908841.000	1.893	80.0	2664453.00	1.606
Diethylphthalate	15.0	646625.000	1.768	25.0	757776.000	1.578	80.0	2425251.00	1.462
Dimethylphthalate	15.0	628488.000	1.719	25.0	753200.000	1.569	80.0	2369871.00	1.429
Fluorene	15.0	613403.000	1.677	25.0	743010.000	1.548	80.0	2207012.00	1.331
Hexachlorobenzene	15.0	164097.000	0.2768	25.0	210362.000	0.2646	80.0	674650.000	0.2387
Hexachloroethane	15.0	111725.000	0.6798	25.0	128658.000	0.6056	80.0	419460.000	0.5993
Indeno[1,2,3-cd]pyrene	15.0	868614.000	1.498	25.0	1109043.00	1.428	80.0	3970762.00	1.390
Isophorone	15.0	524391.000	0.7761	25.0	571242.000	0.6668	80.0	1840598.00	0.6403
Naphthalene	15.0	818325.000	1.211	25.0	956803.000	1.117	80.0	2973363.00	1.034
Nitrobenzene	15.0	279599.000	0.4138	25.0	315038.000	0.3677	80.0	1071083.00	0.3726
Phenanthrene	15.0	909615.000	1.534	25.0	1110570.00	1.397	80.0	3402511.00	1.204
Pyrene	15.0	998058.000	1.593	25.0	1226823.00	1.430	80.0	3702294.00	1.192
bis(2-Chloroethoxy)methane	15.0	428402.000	0.6341	25.0	476696.000	0.5564	80.0	1401519.00	0.4876
bis(2-Chloroethyl)ether	15.0	212954.000	1.296	25.0	225549.000	1.062	80.0	691144.000	0.9874
bis(2-Chloroisopropyl)ether	15.0	445750.000	2.712	25.0	456798.000	2.150	80.0	1434566.00	2.050
bis(2-Ethylhexyl)phthalate	15.0	701631.000	1.120	25.0	817535.000	0.9530	80.0	2643673.00	0.8508

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-08			WG250777-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	925528.000	0.3701	120	967306.000	0.3714
2,4-Dichlorophenol	100	1228697.00	0.2855	120	1280775.00	0.2870
2-Nitrophenol	100	763012.000	0.1773	120	802474.000	0.1798
4-Chloro-3-Methylphenol	100	1300654.00	0.3023	120	1328198.00	0.2976
Acenaphthene	100	2516664.00	1.006	120	2617366.00	1.005
Benzo[a]pyrene	100	5342867.00	1.216	120	5594942.00	1.245
Di-n-Octyl Phthalate	100	6540097.00	1.489	120	6733061.00	1.499
Fluoranthene	100	4783939.00	1.139	120	5014354.00	1.148
Hexachlorobutadiene	100	738650.000	0.1717	120	773038.000	0.1732
Pentachlorophenol	100	597547.000	0.1423	120	621131.000	0.1423
Phenol	100	1682129.00	1.617	120	1733310.00	1.608
n-Nitrosodiphenylamine	100	2759922.00	0.6572	120	2871789.00	0.6577
2,4-Dinitrophenol	100	223436.000	0.08930	120	242621.000	0.09320
4-Nitrophenol	100	709673.000	0.2838	120	725636.000	0.2786
Hexachlorocyclopentadiene	100	570892.000	0.2283	120	583453.000	0.2240
n-Nitrosodipropylamine	100	808200.000	0.7770	120	823650.000	0.7639
2,4,5-Trichlorophenol	100	998481.000	0.3992	120	1049563.00	0.4030
2,4-Dimethylphenol	100	1207218.00	0.2806	120	1257812.00	0.2818
2,4-Dinitrotoluene	100	830314.000	0.3320	120	871075.000	0.3345
2,6-Dinitrotoluene	100	816483.000	0.3265	120	852863.000	0.3275
2-Chloronaphthalene	100	3132499.00	1.253	120	3265739.00	1.254
2-Chlorophenol	100	1440063.00	1.385	120	1498939.00	1.390
2-Methylnaphthalene	100	2759680.00	0.6413	120	2877590.00	0.6447
2-Methylphenol	100	1152654.00	1.108	120	1200408.00	1.113
2-Nitroaniline	100	870217.000	0.3480	120	893000.000	0.3429
3,3'-Dichlorobenzidine	100	1793047.00	0.3875	120	1873314.00	0.3913
3-,4-Methylphenol	100	1526293.00	1.467	120	1596371.00	1.481
3-Nitroaniline	100	857906.000	0.3430	120	893281.000	0.3430
4,6-Dinitro-2-Methylphenol	100	492347.000	0.1172	120	528013.000	0.1209
4-Bromophenyl Phenyl Ether	100	946293.000	0.2253	120	989951.000	0.2267
4-Chloroaniline	100	1816750.00	0.4222	120	1889096.00	0.4232
4-Chlorophenyl Phenyl Ether	100	1389278.00	0.5555	120	1448448.00	0.5562
4-Nitroaniline	100	837513.000	0.3349	120	872101.000	0.3349
Acenaphthylene	100	4343376.00	1.737	120	4503980.00	1.729
Anthracene	100	4657712.00	1.109	120	4886920.00	1.119
Benzo[a]anthracene	100	5336326.00	1.153	120	5554639.00	1.160
Benzo[b]fluoranthene	100	5283573.00	1.203	120	5568353.00	1.239
Benzo[ghi]perylene	100	4906087.00	1.117	120	5097884.00	1.135
Benzo[k]fluoranthene	100	5278697.00	1.202	120	5488526.00	1.222
Butyl Benzyl Phthalate	100	1865672.00	0.4032	NA	NA	NA
Carbazole	100	4425267.00	1.054	120	4529614.00	1.037
Chrysene	100	5142175.00	1.111	120	5375526.00	1.123

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-08			WG250777-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	5492446.00	1.308	120	5701082.00	1.306
Dibenz[ah]anthracene	100	4757266.00	1.083	120	4980016.00	1.108
Dibenzofuran	100	3443671.00	1.377	NA	NA	NA
Diethylphthalate	100	3373644.00	1.349	120	3484824.00	1.338
Dimethylphthalate	100	3313752.00	1.325	120	3428103.00	1.316
Fluorene	100	2966003.00	1.186	120	3095317.00	1.189
Hexachlorobenzene	100	913662.000	0.2176	120	961760.000	0.2203
Hexachloroethane	100	590045.000	0.5673	120	613264.000	0.5688
Indeno[1,2,3-cd]pyrene	100	5629191.00	1.282	120	5858729.00	1.304
Isophorone	100	2632882.00	0.6119	120	2705019.00	0.6060
Naphthalene	100	4112252.00	0.9557	120	4277080.00	0.9583
Nitrobenzene	100	1542648.00	0.3585	120	1589936.00	0.3562
Phenanthrene	100	4626929.00	1.102	120	4816438.00	1.103
Pyrene	100	4948255.00	1.069	NA	NA	NA
bis(2-Chloroethoxy)methane	100	1892386.00	0.4398	120	1949274.00	0.4367
bis(2-Chloroethyl)ether	100	974638.000	0.9370	120	999074.000	0.9266
bis(2-Chloroisopropyl)ether	100	2053293.00	1.974	120	2092073.00	1.940
bis(2-Ethylhexyl)phthalate	100	3644132.00	0.7876	120	3744044.00	0.7820

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-02			WG251507-03			WG251507-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	241987.000	0.4507	3.00	10317.0000	0.3192	10.0	38493.0000	0.4139
2,4-Dichlorophenol	50.0	304668.000	0.3641	3.00	13072.0000	0.2603	10.0	48483.0000	0.3323
2-Nitrophenol	50.0	186422.000	0.2228	3.00	7039.00000	0.1401	10.0	29932.0000	0.2052
4-Chloro-3-Methylphenol	50.0	319501.000	0.3818	3.00	14536.0000	0.2894	10.0	55261.0000	0.3788
Acenaphthene	50.0	742219.000	1.382	3.00	27817.0000	0.8607	10.0	112012.000	1.204
Benzo[a]pyrene	50.0	1076892.00	1.401	3.00	48110.0000	1.069	10.0	191922.000	1.349
Di-n-Octyl Phthalate	50.0	1125633.00	1.464	3.00	46837.0000	1.041	10.0	178048.000	1.251
Fluoranthene	50.0	1263466.00	1.435	3.00	52284.0000	1.014	10.0	217365.000	1.406
Hexachlorobutadiene	50.0	235979.000	0.2820	3.00	11872.0000	0.2364	10.0	43694.0000	0.2995
Pentachlorophenol	50.0	160066.000	0.1818	NA	NA	NA	10.0	15223.0000	0.09850
Phenol	50.0	414480.000	1.765	3.00	21983.0000	1.581	10.0	71390.0000	1.759
n-Nitrosodiphenylamine	50.0	715109.000	0.8121	3.00	30503.0000	0.5917	10.0	118543.000	0.7669
2,4-Dinitrophenol	50.0	116809.000	0.2175	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	194816.000	0.3628	NA	NA	NA	10.0	27445.0000	0.2951
Hexachlorocyclopentadiene	50.0	261077.000	0.4862	3.00	11083.0000	0.3429	10.0	43963.0000	0.4727
n-Nitrosodipropylamine	50.0	286843.000	1.221	3.00	12566.0000	0.9039	10.0	49718.0000	1.225
2,4,5-Trichlorophenol	50.0	253417.000	0.4719	3.00	10017.0000	0.3099	10.0	40300.0000	0.4333
2,4-Dimethylphenol	50.0	317690.000	0.3796	3.00	13649.0000	0.2718	10.0	53331.0000	0.3655
2,4-Dinitrotoluene	50.0	260404.000	0.4850	3.00	9616.00000	0.2975	10.0	40313.0000	0.4335
2,6-Dinitrotoluene	50.0	184339.000	0.3433	3.00	8351.00000	0.2584	10.0	32131.0000	0.3455
2-Chloronaphthalene	50.0	781863.000	1.456	3.00	36554.0000	1.131	10.0	136004.000	1.462
2-Chlorophenol	50.0	324889.000	1.383	3.00	15773.0000	1.135	10.0	54591.0000	1.345
2-Methylnaphthalene	50.0	625534.000	0.7475	3.00	28105.0000	0.5596	10.0	109302.000	0.7492
2-Methylphenol	50.0	258021.000	1.099	3.00	11785.0000	0.8477	10.0	43787.0000	1.079
2-Nitroaniline	50.0	210941.000	0.3928	NA	NA	NA	10.0	36896.0000	0.3967
3,3'-Dichlorobenzidine	50.0	396009.000	0.4033	3.00	19210.0000	0.3584	10.0	63596.0000	0.3758
3-,4-Methylphenol	50.0	336002.000	1.431	3.00	15332.0000	1.103	10.0	56169.0000	1.384
3-Nitroaniline	50.0	158584.000	0.2953	NA	NA	NA	10.0	28901.0000	0.3108
4,6-Dinitro-2-Methylphenol	50.0	148111.000	0.1682	NA	NA	NA	10.0	13685.0000	0.08850
4-Bromophenyl Phenyl Ether	50.0	271469.000	0.3083	3.00	11786.0000	0.2286	10.0	47016.0000	0.3042
4-Chloroaniline	50.0	405742.000	0.4848	3.00	18144.0000	0.3613	10.0	68364.0000	0.4686
4-Chlorophenyl Phenyl Ether	50.0	441116.000	0.8215	3.00	18897.0000	0.5847	10.0	74433.0000	0.8004
4-Nitroaniline	50.0	201650.000	0.3755	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	1058602.00	1.971	3.00	47086.0000	1.457	10.0	179742.000	1.933
Anthracene	50.0	1209244.00	1.373	3.00	49994.0000	0.9697	10.0	203404.000	1.316
Benzo[a]anthracene	50.0	1294035.00	1.318	3.00	51646.0000	0.9635	10.0	208886.000	1.234
Benzo[b]fluoranthene	50.0	1391638.00	1.810	3.00	54117.0000	1.202	10.0	226055.000	1.588
Benzo[ghi]perylene	50.0	1049950.00	1.366	3.00	50255.0000	1.117	10.0	194606.000	1.368
Benzo[k]fluoranthene	50.0	1116452.00	1.452	3.00	46091.0000	1.024	10.0	183811.000	1.292
Butyl Benzyl Phthalate	50.0	665520.000	0.6778	3.00	24769.0000	0.4621	10.0	100292.000	0.5926
Carbazole	50.0	1001566.00	1.137	3.00	44229.0000	0.8579	10.0	169600.000	1.097
Chrysene	50.0	1202803.00	1.225	3.00	49538.0000	0.9242	10.0	195378.000	1.154

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-02			WG251507-03			WG251507-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	1287499.00	1.462	3.00	54916.0000	1.065	10.0	222417.000	1.439
Dibenz[ah]anthracene	50.0	1157100.00	1.505	3.00	47215.0000	1.049	10.0	200951.000	1.412
Dibenzofuran	50.0	995719.000	1.854	3.00	42386.0000	1.311	10.0	169795.000	1.826
Diethylphthalate	50.0	797673.000	1.486	3.00	36923.0000	1.142	10.0	140721.000	1.513
Dimethylphthalate	50.0	777251.000	1.448	3.00	37243.0000	1.152	10.0	140357.000	1.509
Fluorene	50.0	855648.000	1.594	3.00	34505.0000	1.068	10.0	141248.000	1.519
Hexachlorobenzene	50.0	286423.000	0.3253	3.00	13040.0000	0.2529	10.0	49520.0000	0.3204
Hexachloroethane	50.0	157941.000	0.6725	3.00	7150.00000	0.5143	10.0	28669.0000	0.7062
Indeno[1,2,3-cd]pyrene	50.0	1315469.00	1.711	3.00	52776.0000	1.173	10.0	227766.000	1.601
Isophorone	50.0	630335.000	0.7532	3.00	28620.0000	0.5698	10.0	109831.000	0.7528
Naphthalene	50.0	953311.000	1.139	3.00	43678.0000	0.8696	10.0	167360.000	1.147
Nitrobenzene	50.0	411514.000	0.4917	3.00	19637.0000	0.3910	10.0	73369.0000	0.5029
Phenanthrene	50.0	1211840.00	1.376	3.00	52334.0000	1.015	10.0	211969.000	1.371
Pyrene	50.0	1320736.00	1.345	3.00	56032.0000	1.045	10.0	222728.000	1.316
bis(2-Chloroethoxy)methane	50.0	515504.000	0.6160	3.00	24993.0000	0.4976	10.0	87337.0000	0.5986
bis(2-Chloroethyl)ether	50.0	190090.000	0.8094	3.00	8810.00000	0.6337	10.0	33452.0000	0.8240
bis(2-Chloroisopropyl)ether	50.0	171785.000	0.7315	3.00	8269.00000	0.5948	10.0	30019.0000	0.7395
bis(2-Ethylhexyl)phthalate	50.0	730935.000	0.7444	3.00	28771.0000	0.5367	10.0	115548.000	0.6827

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-05			WG251507-06			WG251507-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	119799.000	0.4237	25.0	138437.000	0.4457	80.0	465549.000	0.5053
2,4-Dichlorophenol	15.0	144928.000	0.3394	25.0	163855.000	0.3455	80.0	542893.000	0.3814
2-Nitrophenol	15.0	88939.0000	0.2083	25.0	97375.0000	0.2053	80.0	352493.000	0.2476
4-Chloro-3-Methylphenol	15.0	160462.000	0.3758	25.0	178292.000	0.3760	80.0	606936.000	0.4264
Acenaphthene	15.0	366642.000	1.297	25.0	408239.000	1.314	80.0	1504027.00	1.633
Benzo[a]pyrene	15.0	559517.000	1.316	25.0	639898.000	1.348	80.0	2101050.00	1.573
Di-n-Octyl Phthalate	15.0	566279.000	1.332	25.0	606795.000	1.279	80.0	2183713.00	1.635
Fluoranthene	15.0	640581.000	1.327	25.0	741239.000	1.400	80.0	2554988.00	1.651
Hexachlorobutadiene	15.0	118340.000	0.2772	25.0	140990.000	0.2973	80.0	435130.000	0.3057
Pentachlorophenol	15.0	69815.0000	0.1446	25.0	83773.0000	0.1582	80.0	325393.000	0.2103
Phenol	15.0	205133.000	1.775	25.0	225092.000	1.666	80.0	764676.000	1.948
n-Nitrosodiphenylamine	15.0	365700.000	0.7573	25.0	407958.000	0.7703	80.0	1377630.00	0.8903
2,4-Dinitrophenol	15.0	38651.0000	0.1367	25.0	45055.0000	0.1450	80.0	272431.000	0.2957
4-Nitrophenol	15.0	97003.0000	0.3431	25.0	103513.000	0.3332	80.0	389731.000	0.4230
Hexachlorocyclopentadiene	15.0	130881.000	0.4629	25.0	156399.000	0.5035	80.0	480995.000	0.5221
n-Nitrosodipropylamine	15.0	140527.000	1.216	25.0	150205.000	1.112	80.0	531341.000	1.354
2,4,5-Trichlorophenol	15.0	125204.000	0.4428	25.0	143605.000	0.4623	80.0	490630.000	0.5326
2,4-Dimethylphenol	15.0	153988.000	0.3606	25.0	171788.000	0.3622	80.0	598797.000	0.4207
2,4-Dinitrotoluene	15.0	130771.000	0.4625	25.0	144327.000	0.4646	80.0	532433.000	0.5779
2,6-Dinitrotoluene	15.0	94333.0000	0.3336	25.0	106940.000	0.3443	80.0	348824.000	0.3786
2-Chloronaphthalene	15.0	395930.000	1.400	25.0	450854.000	1.451	80.0	1524406.00	1.655
2-Chlorophenol	15.0	155750.000	1.348	25.0	177018.000	1.310	80.0	577605.000	1.472
2-Methylnaphthalene	15.0	316267.000	0.7407	25.0	365249.000	0.7702	80.0	1217769.00	0.8555
2-Methylphenol	15.0	128708.000	1.114	25.0	141585.000	1.048	80.0	468130.000	1.193
2-Nitroaniline	15.0	112647.000	0.3984	25.0	117600.000	0.3786	80.0	403866.000	0.4384
3,3'-Dichlorobenzidine	15.0	190885.000	0.3560	25.0	211547.000	0.3625	80.0	759754.000	0.4226
3-,4-Methylphenol	15.0	162032.000	1.402	25.0	182297.000	1.349	80.0	597956.000	1.523
3-Nitroaniline	15.0	85570.0000	0.3027	25.0	91620.0000	0.2950	80.0	321877.000	0.3494
4,6-Dinitro-2-Methylphenol	15.0	63361.0000	0.1312	25.0	75933.0000	0.1434	80.0	312088.000	0.2017
4-Bromophenyl Phenyl Ether	15.0	139352.000	0.2886	25.0	163714.000	0.3091	80.0	527478.000	0.3409
4-Chloroaniline	15.0	203551.000	0.4767	25.0	227212.000	0.4791	80.0	750898.000	0.5275
4-Chlorophenyl Phenyl Ether	15.0	224153.000	0.7928	25.0	257429.000	0.8287	80.0	894515.000	0.9710
4-Nitroaniline	15.0	102809.000	0.3636	25.0	110722.000	0.3564	80.0	412080.000	0.4473
Acenaphthylene	15.0	539000.000	1.906	25.0	611456.000	1.968	80.0	2059835.00	2.236
Anthracene	15.0	628726.000	1.302	25.0	709265.000	1.339	80.0	2388060.00	1.543
Benzo[a]anthracene	15.0	645435.000	1.204	25.0	713836.000	1.223	80.0	2558210.00	1.423
Benzo[b]fluoranthene	15.0	690325.000	1.624	25.0	784947.000	1.654	80.0	2882484.00	2.159
Benzo[ghi]perylene	15.0	554750.000	1.305	25.0	638741.000	1.346	80.0	2005929.00	1.502
Benzo[k]fluoranthene	15.0	582607.000	1.370	25.0	657866.000	1.386	80.0	2204614.00	1.651
Butyl Benzyl Phthalate	15.0	308262.000	0.5749	25.0	332694.000	0.5701	80.0	1386825.00	0.7714
Carbazole	15.0	528295.000	1.094	25.0	580732.000	1.097	80.0	2042949.00	1.320
Chrysene	15.0	601710.000	1.122	25.0	673198.000	1.154	80.0	2423355.00	1.348

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-05			WG251507-06			WG251507-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	676315.000	1.401	25.0	735823.000	1.389	80.0	2525643.00	1.632
Dibenz[ah]anthracene	15.0	587680.000	1.382	25.0	674293.000	1.421	80.0	2301321.00	1.723
Dibenzofuran	15.0	504404.000	1.784	25.0	578110.000	1.861	80.0	2000676.00	2.172
Diethylphthalate	15.0	417690.000	1.477	25.0	465389.000	1.498	80.0	1502523.00	1.631
Dimethylphthalate	15.0	409245.000	1.448	25.0	458934.000	1.477	80.0	1515458.00	1.645
Fluorene	15.0	437943.000	1.549	25.0	497109.000	1.600	80.0	1692874.00	1.838
Hexachlorobenzene	15.0	150196.000	0.3110	25.0	172593.000	0.3259	80.0	553230.000	0.3575
Hexachloroethane	15.0	78904.0000	0.6827	25.0	86632.0000	0.6412	80.0	282696.000	0.7202
Indeno[1,2,3-cd]pyrene	15.0	664336.000	1.563	25.0	773731.000	1.630	80.0	2609347.00	1.954
Isophorone	15.0	320923.000	0.7516	25.0	340213.000	0.7174	80.0	1139288.00	0.8004
Naphthalene	15.0	482777.000	1.131	25.0	539808.000	1.138	80.0	1779071.00	1.250
Nitrobenzene	15.0	209252.000	0.4901	25.0	228627.000	0.4821	80.0	747575.000	0.5252
Phenanthrene	15.0	642812.000	1.331	25.0	704768.000	1.331	80.0	2348239.00	1.518
Pyrene	15.0	656241.000	1.224	25.0	758388.000	1.300	80.0	2638008.00	1.467
bis(2-Chloroethoxy)methane	15.0	252904.000	0.5923	25.0	281184.000	0.5929	80.0	965498.000	0.6783
bis(2-Chloroethyl)ether	15.0	96484.0000	0.8349	25.0	103042.000	0.7626	80.0	346498.000	0.8827
bis(2-Chloroisopropyl)ether	15.0	87714.0000	0.7590	25.0	91786.0000	0.6793	80.0	312537.000	0.7962
bis(2-Ethylhexyl)phthalate	15.0	352091.000	0.6566	25.0	373641.000	0.6402	80.0	1400402.00	0.7790

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-08			WG251507-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	818221.000	0.5291	120	785511.000	0.5407
2,4-Dichlorophenol	100	957991.000	0.3953	120	901227.000	0.3989
2-Nitrophenol	100	654419.000	0.2700	120	619224.000	0.2741
4-Chloro-3-Methylphenol	100	1022078.00	0.4217	120	997467.000	0.4415
Acenaphthene	100	2673783.00	1.729	120	2565234.00	1.766
Benzo[a]pyrene	100	3920227.00	1.588	120	3908461.00	1.689
Di-n-Octyl Phthalate	100	4054367.00	1.643	120	4001619.00	1.730
Fluoranthene	100	4664196.00	1.669	120	4529346.00	1.707
Hexachlorobutadiene	100	751865.000	0.3102	120	721741.000	0.3194
Pentachlorophenol	100	631292.000	0.2259	120	607284.000	0.2289
Phenol	100	1311677.00	1.927	120	1236337.00	1.971
n-Nitrosodiphenylamine	100	2524446.00	0.9035	120	2453185.00	0.9246
2,4-Dinitrophenol	100	541026.000	0.3498	120	514919.000	0.3544
4-Nitrophenol	100	631872.000	0.4086	120	629141.000	0.4331
Hexachlorocyclopentadiene	100	736503.000	0.4762	120	683239.000	0.4703
n-Nitrosodipropylamine	100	918973.000	1.350	120	882868.000	1.407
2,4,5-Trichlorophenol	100	871591.000	0.5636	120	841388.000	0.5792
2,4-Dimethylphenol	100	1096710.00	0.4525	120	1027491.00	0.4547
2,4-Dinitrotoluene	100	971376.000	0.6281	120	940044.000	0.6471
2,6-Dinitrotoluene	100	609489.000	0.3941	120	585134.000	0.4028
2-Chloronaphthalene	100	2654031.00	1.716	120	2546897.00	1.753
2-Chlorophenol	100	999350.000	1.468	120	937354.000	1.494
2-Methylnaphthalene	100	2122373.00	0.8757	120	2020337.00	0.8942
2-Methylphenol	100	795436.000	1.169	120	754032.000	1.202
2-Nitroaniline	100	661611.000	0.4278	120	647503.000	0.4457
3,3'-Dichlorobenzidine	100	1507453.00	0.4262	120	1467172.00	0.4430
3-,4-Methylphenol	100	1043030.00	1.532	120	987064.000	1.573
3-Nitroaniline	100	558027.000	0.3608	120	548535.000	0.3776
4,6-Dinitro-2-Methylphenol	100	580893.000	0.2079	120	565852.000	0.2133
4-Bromophenyl Phenyl Ether	100	952660.000	0.3410	120	921079.000	0.3472
4-Chloroaniline	100	1281243.00	0.5286	120	1247870.00	0.5523
4-Chlorophenyl Phenyl Ether	100	1677517.00	1.085	120	1628418.00	1.121
4-Nitroaniline	100	735140.000	0.4754	120	707373.000	0.4869
Acenaphthylene	100	3573791.00	2.311	120	3440223.00	2.368
Anthracene	100	4344682.00	1.555	120	4197315.00	1.582
Benzo[a]anthracene	100	4926752.00	1.393	120	4835448.00	1.460
Benzo[b]fluoranthene	100	5840348.00	2.367	120	5630134.00	2.433
Benzo[ghi]perylene	100	3573822.00	1.448	120	3430870.00	1.483
Benzo[k]fluoranthene	100	4031567.00	1.634	120	4087209.00	1.767
Butyl Benzyl Phthalate	100	2640029.00	0.7464	120	2588749.00	0.7817
Carbazole	100	3772946.00	1.350	120	3615188.00	1.363
Chrysene	100	4706179.00	1.331	120	4566237.00	1.379

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS5

Analytical Method: 8270C **Initial Calibration Date:** 01-OCT-07 13:26

Column ID: F

Analyte	WG251507-08			WG251507-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	4485461.00	1.605	120	4376941.00	1.650
Dibenz[ah]anthracene	100	4339890.00	1.759	120	4155151.00	1.796
Dibenzofuran	100	3579249.00	2.315	120	3461598.00	2.383
Diethylphthalate	100	2610378.00	1.688	120	2535653.00	1.745
Dimethylphthalate	100	2574100.00	1.665	120	2478236.00	1.706
Fluorene	100	3069883.00	1.985	120	2945914.00	2.028
Hexachlorobenzene	100	1013681.00	0.3628	120	991508.000	0.3737
Hexachloroethane	100	479836.000	0.7050	120	453810.000	0.7233
Indeno[1,2,3-cd]pyrene	100	4895778.00	1.984	120	4695831.00	2.030
Isophorone	100	1906974.00	0.7868	120	1841169.00	0.8149
Naphthalene	100	3042749.00	1.255	120	2928420.00	1.296
Nitrobenzene	100	1241735.00	0.5123	120	1187253.00	0.5255
Phenanthrene	100	4295787.00	1.538	120	4173092.00	1.573
Pyrene	100	4994633.00	1.412	120	4868260.00	1.470
bis(2-Chloroethoxy)methane	100	1729457.00	0.7136	120	1631269.00	0.7220
bis(2-Chloroethyl)ether	100	577934.000	0.8491	120	547554.000	0.8728
bis(2-Chloroisopropyl)ether	100	521741.000	0.7665	120	485292.000	0.7735
bis(2-Ethylhexyl)phthalate	100	2678625.00	0.7573	120	2635605.00	0.7958

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-02			WG252219-03			WG252219-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	83797.0000	0.3842	3.00	3487.00000	0.2727	15.0	24192.0000	0.3514
2,4-Dichlorophenol	50.0	107093.000	0.3017	3.00	5407.00000	0.2547	15.0	32891.0000	0.2899
2-Nitrophenol	50.0	69940.0000	0.1970	3.00	3184.00000	0.1500	15.0	20662.0000	0.1821
4-Chloro-3-Methylphenol	50.0	119381.000	0.3363	3.00	5997.00000	0.2825	15.0	36834.0000	0.3246
Acenaphthene	50.0	240405.000	1.102	3.00	12401.0000	0.9699	15.0	72196.0000	1.049
Benzo[a]pyrene	50.0	430645.000	1.210	3.00	17147.0000	0.9841	15.0	119151.000	1.121
Di-n-Octyl Phthalate	50.0	531388.000	1.493	3.00	21064.0000	1.209	15.0	152019.000	1.430
Fluoranthene	50.0	465529.000	1.349	3.00	23633.0000	1.212	15.0	142911.000	1.338
Hexachlorobutadiene	50.0	74191.0000	0.2090	3.00	4426.00000	0.2085	15.0	23891.0000	0.2105
Pentachlorophenol	50.0	51491.0000	0.1492	NA	NA	NA	15.0	11207.0000	0.1049
Phenol	50.0	168957.000	1.775	3.00	9403.00000	1.651	15.0	53189.0000	1.737
n-Nitrosodiphenylamine	50.0	244179.000	0.7077	3.00	12791.0000	0.6560	15.0	74225.0000	0.6948
2,4-Dinitrophenol	50.0	30068.0000	0.1379	NA	NA	NA	15.0	4205.00000	0.06110
4-Nitrophenol	50.0	55571.0000	0.2548	NA	NA	NA	15.0	15400.0000	0.2237
Hexachlorocyclopentadiene	50.0	83804.0000	0.3843	3.00	3076.00000	0.2406	15.0	24561.0000	0.3567
n-Nitrosodipropylamine	50.0	86874.0000	0.9128	3.00	5019.00000	0.8811	15.0	29237.0000	0.9547
2,4,5-Trichlorophenol	50.0	86811.0000	0.3980	3.00	3814.00000	0.2983	15.0	25595.0000	0.3717
2,4-Dimethylphenol	50.0	116676.000	0.3287	3.00	6193.00000	0.2917	15.0	36212.0000	0.3191
2,4-Dinitrotoluene	50.0	89815.0000	0.4118	3.00	3911.00000	0.3059	15.0	26758.0000	0.3886
2,6-Dinitrotoluene	50.0	67781.0000	0.3108	3.00	3313.00000	0.2591	15.0	20595.0000	0.2991
2-Chloronaphthalene	50.0	289084.000	1.326	3.00	16206.0000	1.268	15.0	89288.0000	1.297
2-Chlorophenol	50.0	126079.000	1.325	3.00	6897.00000	1.211	15.0	39266.0000	1.282
2-Methylnaphthalene	50.0	242978.000	0.6845	3.00	13474.0000	0.6348	15.0	75410.0000	0.6646
2-Methylphenol	50.0	132725.000	1.395	3.00	7152.00000	1.256	15.0	41441.0000	1.353
2-Nitroaniline	50.0	88401.0000	0.4053	NA	NA	NA	15.0	29037.0000	0.4217
3,3'-Dichlorobenzidine	50.0	164746.000	0.4216	3.00	6610.00000	0.3209	15.0	47346.0000	0.3953
3-,4-Methylphenol	50.0	147637.000	1.551	3.00	8444.00000	1.482	15.0	47514.0000	1.551
3-Nitroaniline	50.0	65904.0000	0.3022	NA	NA	NA	15.0	19684.0000	0.2859
4,6-Dinitro-2-Methylphenol	50.0	51870.0000	0.1503	NA	NA	NA	15.0	12421.0000	0.1163
4-Bromophenyl Phenyl Ether	50.0	89425.0000	0.2592	3.00	4525.00000	0.2321	15.0	26925.0000	0.2521
4-Chloroaniline	50.0	150361.000	0.4236	3.00	8009.00000	0.3773	15.0	46494.0000	0.4097
4-Chlorophenyl Phenyl Ether	50.0	148416.000	0.6805	3.00	7926.00000	0.6199	15.0	45621.0000	0.6626
4-Nitroaniline	50.0	72153.0000	0.3308	NA	NA	NA	15.0	21804.0000	0.3167
Acenaphthylene	50.0	377560.000	1.731	3.00	20457.0000	1.600	15.0	115224.000	1.674
Anthracene	50.0	416154.000	1.206	3.00	21947.0000	1.126	15.0	126606.000	1.185
Benzo[a]anthracene	50.0	484720.000	1.241	3.00	24721.0000	1.200	15.0	147533.000	1.232
Benzo[b]fluoranthene	50.0	507001.000	1.424	3.00	22432.0000	1.287	15.0	139218.000	1.309
Benzo[ghi]perylene	50.0	409395.000	1.150	3.00	15867.0000	0.9106	15.0	113349.000	1.066
Benzo[k]fluoranthene	50.0	443519.000	1.246	3.00	18812.0000	1.080	15.0	129953.000	1.222
Butyl Benzyl Phthalate	50.0	224208.000	0.5738	3.00	10541.0000	0.5118	15.0	67679.0000	0.5651
Carbazole	50.0	379365.000	1.100	3.00	19456.0000	0.9978	15.0	115014.000	1.077
Chrysene	50.0	453981.000	1.162	3.00	21929.0000	1.065	15.0	134126.000	1.120

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-02			WG252219-03			WG252219-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	474819.000	1.376	3.00	23538.0000	1.207	15.0	146071.000	1.367
Dibenz[ah]anthracene	50.0	437316.000	1.229	3.00	15340.0000	0.8804	15.0	116063.000	1.092
Dibenzofuran	50.0	338144.000	1.551	3.00	18929.0000	1.481	15.0	105807.000	1.537
Diethylphthalate	50.0	273178.000	1.253	3.00	15342.0000	1.200	15.0	85247.0000	1.238
Dimethylphthalate	50.0	280419.000	1.286	3.00	15588.0000	1.219	15.0	87616.0000	1.273
Fluorene	50.0	284517.000	1.305	3.00	16000.0000	1.251	15.0	91186.0000	1.324
Hexachlorobenzene	50.0	89456.0000	0.2593	3.00	4437.00000	0.2275	15.0	26508.0000	0.2482
Hexachloroethane	50.0	57098.0000	0.5999	3.00	3107.00000	0.5454	15.0	17895.0000	0.5843
Indeno[1,2,3-cd]pyrene	50.0	508777.000	1.429	3.00	18382.0000	1.055	15.0	135859.000	1.278
Isophorone	50.0	233193.000	0.6569	3.00	12994.0000	0.6121	15.0	75183.0000	0.6626
Naphthalene	50.0	366115.000	1.031	3.00	21216.0000	0.9995	15.0	115708.000	1.020
Nitrobenzene	50.0	144266.000	0.4064	3.00	8679.00000	0.4089	15.0	47679.0000	0.4202
Phenanthrene	50.0	411804.000	1.194	3.00	22576.0000	1.158	15.0	127790.000	1.196
Pyrene	50.0	490404.000	1.255	3.00	25348.0000	1.231	15.0	152275.000	1.271
bis(2-Chloroethoxy)methane	50.0	150891.000	0.4251	3.00	8753.00000	0.4124	15.0	49037.0000	0.4322
bis(2-Chloroethyl)ether	50.0	88898.0000	0.9340	3.00	5499.00000	0.9653	15.0	30010.0000	0.9799
bis(2-Chloroisopropyl)ether	50.0	153981.000	1.618	3.00	9807.00000	1.722	15.0	52617.0000	1.718
bis(2-Ethylhexyl)phthalate	50.0	309087.000	0.7910	3.00	13639.0000	0.6622	15.0	92034.0000	0.7684

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-05			WG252219-06			WG252219-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	25.0	39120.0000	0.3584	80.0	131084.000	0.3877	100	160374.000	0.3917
2,4-Dichlorophenol	25.0	52052.0000	0.2902	80.0	167293.000	0.3067	100	203922.000	0.3078
2-Nitrophenol	25.0	33580.0000	0.1872	80.0	110175.000	0.2020	100	133566.000	0.2016
4-Chloro-3-Methylphenol	25.0	58047.0000	0.3236	80.0	181528.000	0.3328	100	217608.000	0.3285
Acenaphthene	25.0	114142.000	1.046	80.0	352394.000	1.042	100	416321.000	1.017
Benzo[a]pyrene	25.0	197135.000	1.118	80.0	723715.000	1.233	100	884980.000	1.240
Di-n-Octyl Phthalate	25.0	249087.000	1.413	80.0	821279.000	1.399	100	995259.000	1.394
Fluoranthene	25.0	225775.000	1.309	80.0	698099.000	1.307	100	822986.000	1.262
Hexachlorobutadiene	25.0	36509.0000	0.2035	80.0	112285.000	0.2059	100	135198.000	0.2041
Pentachlorophenol	25.0	21051.0000	0.1221	80.0	76227.0000	0.1427	100	90820.0000	0.1392
Phenol	25.0	82938.0000	1.697	80.0	256071.000	1.731	100	307133.000	1.721
n-Nitrosodiphenylamine	25.0	116799.000	0.6773	80.0	367988.000	0.6888	100	441467.000	0.6767
2,4-Dinitrophenol	25.0	9909.00000	0.09080	80.0	54530.0000	0.1613	100	70350.0000	0.1718
4-Nitrophenol	25.0	26404.0000	0.2419	80.0	86558.0000	0.2560	100	109863.000	0.2683
Hexachlorocyclopentadiene	25.0	39445.0000	0.3614	80.0	121031.000	0.3580	100	140742.000	0.3437
n-Nitrosodipropylamine	25.0	44203.0000	0.9042	80.0	119087.000	0.8049	100	134771.000	0.7550
2,4,5-Trichlorophenol	25.0	41017.0000	0.3758	80.0	138447.000	0.4095	100	169886.000	0.4149
2,4-Dimethylphenol	25.0	57132.0000	0.3185	80.0	176689.000	0.3239	100	212400.000	0.3206
2,4-Dinitrotoluene	25.0	42736.0000	0.3915	80.0	136572.000	0.4039	100	160385.000	0.3917
2,6-Dinitrotoluene	25.0	32526.0000	0.2980	80.0	105591.000	0.3123	100	129736.000	0.3168
2-Chloronaphthalene	25.0	137725.000	1.262	80.0	427298.000	1.264	100	510098.000	1.246
2-Chlorophenol	25.0	61466.0000	1.257	80.0	196983.000	1.331	100	240154.000	1.345
2-Methylnaphthalene	25.0	117197.000	0.6533	80.0	367519.000	0.6738	100	439397.000	0.6632
2-Methylphenol	25.0	64698.0000	1.324	80.0	201817.000	1.364	100	241633.000	1.354
2-Nitroaniline	25.0	44472.0000	0.4074	80.0	127015.000	0.3757	100	149248.000	0.3645
3,3'-Dichlorobenzidine	25.0	77064.0000	0.3961	80.0	260702.000	0.4231	100	315266.000	0.4244
3-,4-Methylphenol	25.0	73662.0000	1.507	80.0	223539.000	1.511	100	269204.000	1.508
3-Nitroaniline	25.0	31243.0000	0.2862	80.0	105861.000	0.3131	100	130231.000	0.3180
4,6-Dinitro-2-Methylphenol	25.0	22304.0000	0.1293	80.0	85915.0000	0.1608	100	109807.000	0.1683
4-Bromophenyl Phenyl Ether	25.0	42312.0000	0.2454	80.0	136598.000	0.2557	100	165581.000	0.2538
4-Chloroaniline	25.0	73314.0000	0.4087	80.0	234167.000	0.4293	100	283550.000	0.4280
4-Chlorophenyl Phenyl Ether	25.0	70690.0000	0.6476	80.0	227260.000	0.6722	100	273602.000	0.6682
4-Nitroaniline	25.0	35524.0000	0.3254	80.0	99603.0000	0.2946	100	115905.000	0.2831
Acenaphthylene	25.0	180682.000	1.655	80.0	567969.000	1.680	100	675778.000	1.650
Anthracene	25.0	200566.000	1.163	80.0	618121.000	1.157	100	728089.000	1.116
Benzo[a]anthracene	25.0	235606.000	1.211	80.0	751757.000	1.220	100	896800.000	1.207
Benzo[b]fluoranthene	25.0	231819.000	1.315	80.0	809525.000	1.379	100	1004020.00	1.407
Benzo[ghi]perylene	25.0	187039.000	1.061	80.0	662519.000	1.129	100	759693.000	1.064
Benzo[k]fluoranthene	25.0	207382.000	1.177	80.0	689898.000	1.175	100	884528.000	1.239
Butyl Benzyl Phthalate	25.0	108238.000	0.5563	80.0	332178.000	0.5391	100	388867.000	0.5235
Carbazole	25.0	182685.000	1.059	80.0	579867.000	1.086	100	692334.000	1.061
Chrysene	25.0	211323.000	1.086	80.0	695038.000	1.128	100	825846.000	1.112

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-05			WG252219-06			WG252219-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	25.0	228970.000	1.328	80.0	693220.000	1.298	100	817905.000	1.254
Dibenz[ah]anthracene	25.0	195418.000	1.109	80.0	717510.000	1.222	100	843017.000	1.181
Dibenzofuran	25.0	165697.000	1.518	80.0	511886.000	1.514	100	607349.000	1.483
Diethylphthalate	25.0	133436.000	1.223	80.0	402489.000	1.191	100	476647.000	1.164
Dimethylphthalate	25.0	136515.000	1.251	80.0	424491.000	1.256	100	515051.000	1.258
Fluorene	25.0	142289.000	1.304	80.0	389038.000	1.151	100	441862.000	1.079
Hexachlorobenzene	25.0	41692.0000	0.2418	80.0	135572.000	0.2538	100	162426.000	0.2490
Hexachloroethane	25.0	27924.0000	0.5712	80.0	86498.0000	0.5847	100	102457.000	0.5740
Indeno[1,2,3-cd]pyrene	25.0	227091.000	1.288	80.0	827892.000	1.410	100	963889.000	1.351
Isophorone	25.0	115557.000	0.6442	80.0	345191.000	0.6328	100	413196.000	0.6237
Naphthalene	25.0	180070.000	1.004	80.0	553175.000	1.014	100	654474.000	0.9878
Nitrobenzene	25.0	73748.0000	0.4111	80.0	211158.000	0.3871	100	249402.000	0.3764
Phenanthrene	25.0	201350.000	1.168	80.0	611952.000	1.146	100	725865.000	1.113
Pyrene	25.0	240516.000	1.236	80.0	737891.000	1.198	100	863952.000	1.163
bis(2-Chloroethoxy)methane	25.0	75469.0000	0.4207	80.0	224879.000	0.4123	100	265423.000	0.4006
bis(2-Chloroethyl)ether	25.0	45820.0000	0.9373	80.0	126910.000	0.8578	100	147613.000	0.8270
bis(2-Chloroisopropyl)ether	25.0	79110.0000	1.618	80.0	215031.000	1.453	100	249426.000	1.397
bis(2-Ethylhexyl)phthalate	25.0	146094.000	0.7508	80.0	462043.000	0.7498	100	551642.000	0.7426

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-08		
	CONC	RESP	RF
2,4,6-Trichlorophenol	120	192689.000	0.3962
2,4-Dichlorophenol	120	242060.000	0.3092
2-Nitrophenol	120	158283.000	0.2022
4-Chloro-3-Methylphenol	120	255140.000	0.3259
Acenaphthene	120	468718.000	0.9637
Benzo[a]pyrene	120	1053705.00	1.264
Di-n-Octyl Phthalate	120	1170606.00	1.404
Fluoranthene	120	959000.000	1.232
Hexachlorobutadiene	120	156467.000	0.1999
Pentachlorophenol	120	101947.000	0.1310
Phenol	120	359754.000	1.707
n-Nitrosodiphenylamine	120	513889.000	0.6602
2,4-Dinitrophenol	120	84291.0000	0.1733
4-Nitrophenol	120	128768.000	0.2647
Hexachlorocyclopentadiene	120	159245.000	0.3274
n-Nitrosodipropylamine	120	146938.000	0.6971
2,4,5-Trichlorophenol	120	202945.000	0.4173
2,4-Dimethylphenol	120	248465.000	0.3174
2,4-Dinitrotoluene	120	182675.000	0.3756
2,6-Dinitrotoluene	120	154942.000	0.3186
2-Chloronaphthalene	120	612679.000	1.260
2-Chlorophenol	120	282270.000	1.339
2-Methylnaphthalene	120	510352.000	0.6519
2-Methylphenol	120	280411.000	1.330
2-Nitroaniline	120	172890.000	0.3555
3,3'-Dichlorobenzidine	120	375827.000	0.4275
3-,4-Methylphenol	120	313833.000	1.489
3-Nitroaniline	120	156709.000	0.3222
4,6-Dinitro-2-Methylphenol	120	134862.000	0.1733
4-Bromophenyl Phenyl Ether	120	196895.000	0.2530
4-Chloroaniline	120	334776.000	0.4276
4-Chlorophenyl Phenyl Ether	120	321698.000	0.6614
4-Nitroaniline	120	135181.000	0.2779
Acenaphthylene	120	781216.000	1.606
Anthracene	120	840120.000	1.079
Benzo[a]anthracene	120	1066057.00	1.213
Benzo[b]fluoranthene	120	1295893.00	1.554
Benzo[ghi]perylene	120	820486.000	0.9839
Benzo[k]fluoranthene	120	948899.000	1.138
Butyl Benzyl Phthalate	120	445301.000	0.5065
Carbazole	120	802817.000	1.031
Chrysene	120	957090.000	1.089

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709522 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 08-OCT-07 14:36

Column ID: F

Analyte	WG252219-08		
	CONC	RESP	RF
Di-n-Butyl Phthalate	120	943465.000	1.212
Dibenz[ah]anthracene	120	937315.000	1.124
Dibenzofuran	120	701732.000	1.443
Diethylphthalate	120	549008.000	1.129
Dimethylphthalate	120	609793.000	1.254
Fluorene	120	494604.000	1.017
Hexachlorobenzene	120	186885.000	0.2401
Hexachloroethane	120	119261.000	0.5658
Indeno[1,2,3-cd]pyrene	120	1065912.00	1.278
Isophorone	120	485695.000	0.6204
Naphthalene	120	756996.000	0.9670
Nitrobenzene	120	288685.000	0.3688
Phenanthrene	120	837988.000	1.077
Pyrene	120	987102.000	1.123
bis(2-Chloroethoxy)methane	120	309089.000	0.3948
bis(2-Chloroethyl)ether	120	166303.000	0.7890
bis(2-Chloroisopropyl)ether	120	280625.000	1.331
bis(2-Ethylhexyl)phthalate	120	638006.000	0.7258

KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 09/24/2007 Sample ID: WG250777-10
Instrument ID: HPMS4 Run Time: 14:44 Method: 8270C
File ID: 4M39407 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG250777 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50300	ug/L	0.374	0.600	25	
2,4-Dichlorophenol	CCC	50000	49900	ug/L	0.287	0.200	25	
2-Nitrophenol	CCC	50000	54400	ug/L	0.195	8.90	25	
Benzo[a]pyrene	CCC	50000	53400	ug/L	1.40	6.70	25	
Di-n-Octyl Phthalate	CCC	50000	54300	ug/L	1.83	8.60	25	
Fluoranthene	CCC	50000	52800	ug/L	1.41	5.50	25	
Hexachlorobutadiene	CCC	50000	51900	ug/L	0.193	3.70	25	
Pentachlorophenol	CCC	50000	58400	ug/L	0.159	16.8	25	
Phenol	CCC	50000	50300	ug/L	1.75	0.500	25	
2,4-Dinitrophenol	SPCC	50000	56900	ug/L	0.0756	13.8	25	
4-Nitrophenol	SPCC	50000	47800	ug/L	0.243	4.30	25	
Hexachlorocyclopentadiene	SPCC	50000	52800	ug/L	0.282	5.60	25	
2,4,5-Trichlorophenol		50000	50100	ug/L	0.408	0.100	25	
2,4-Dinitrotoluene		50000	60100	ug/L	0.410	20.3	25	
2,6-Dinitrotoluene		50000	52200	ug/L	0.341	4.40	25	
2-Chloronaphthalene		50000	42800	ug/L	1.22	14.5	25	
2-Chlorophenol		50000	48500	ug/L	1.39	3.00	25	
2-Methylnaphthalene		50000	51100	ug/L	0.734	2.20	25	
3,3'-Dichlorobenzidine		50000	43900	ug/L	0.369	12.3	25	
4,6-Dinitro-2-Methylphenol		50000	52500	ug/L	0.107	5.00	25	
4-Chloroaniline		50000	52200	ug/L	0.443	4.50	25	
4-Chlorophenyl Phenyl Ether		50000	46000	ug/L	0.645	8.00	25	
Anthracene		50000	52800	ug/L	1.38	5.60	25	
Benzo[a]anthracene		50000	52800	ug/L	1.38	5.60	25	
Benzo[b]fluoranthene		50000	49500	ug/L	1.42	1.00	25	
Benzo[k]fluoranthene		50000	51200	ug/L	1.35	2.30	25	
bis(2-Chloroethoxy)methane		50000	40600	ug/L	0.425	18.7	25	
bis(2-Chloroisopropyl)ether		50000	51000	ug/L	2.22	2.00	25	
bis(2-Ethylhexyl)phthalate		50000	53600	ug/L	0.974	7.20	25	
Butyl Benzyl Phthalate		50000	58700	ug/L	0.674	17.5	25	
Carbazole		50000	52700	ug/L	1.26	5.30	25	
Chrysene		50000	52600	ug/L	1.36	5.20	25	
Dibenz[ah]anthracene		50000	51700	ug/L	1.19	3.40	25	
Dibenzofuran		50000	48300	ug/L	1.70	3.40	25	
Hexachlorobenzene		50000	49300	ug/L	0.242	1.30	25	
Hexachloroethane		50000	51200	ug/L	0.610	2.30	25	
Isophorone		50000	57300	ug/L	0.755	14.7	25	
Naphthalene		50000	51500	ug/L	1.10	3.00	25	
Nitrobenzene		50000	53400	ug/L	0.388	6.70	25	
Phenanthrene		50000	50600	ug/L	1.31	1.20	25	
Pyrene		50000	53400	ug/L	1.46	6.80	25	

* Exceeds %D Limit

KEMRON FORMS - Modified 09/06/2007 - (ALT)
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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 09/24/2007 Sample ID: WG250777-11
Instrument ID: HPMS4 Run Time: 14:09 Method: 8270C
File ID: 4M39406 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG250777 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
3,3'-Dichlorobenzidine		50000	50000	ug/L	0.420	0.100	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (ALT)
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Report generated 10/10/2007 14:06

KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251507-10
Instrument ID: HPMS5 Run Time: 13:59 Method: 8270C
File ID: 5M48226 Analyst: asp QC Key: DOWWV2006
ICal Workgroup: WG251507 Cal ID: HPMS5 - 01-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	44600	ug/L	0.445	10.9	25	
2,4-Dichlorophenol	CCC	50000	48100	ug/L	0.339	3.70	25	
2-Nitrophenol	CCC	50000	44500	ug/L	0.222	10.9	25	
Benzo[a]pyrene	CCC	50000	53900	ug/L	1.53	7.90	25	
Di-n-Octyl Phthalate	CCC	50000	43900	ug/L	1.38	12.2	25	
Fluoranthene	CCC	50000	51800	ug/L	1.67	3.70	25	
Hexachlorobutadiene	CCC	50000	56800	ug/L	0.331	13.6	25	
Pentachlorophenol	CCC	50000	56800	ug/L	0.236	13.6	25	
Phenol	CCC	50000	45600	ug/L	1.64	8.80	25	
2,4-Dinitrophenol	SPCC	50000	52700	ug/L	0.258	5.50	25	
4-Nitrophenol	SPCC	50000	46700	ug/L	0.347	6.70	25	
Hexachlorocyclopentadiene	SPCC	50000	58600	ug/L	0.547	17.2	25	
2,4,5-Trichlorophenol		50000	45100	ug/L	0.478	9.70	25	
2,4-Dinitrotoluene		50000	44400	ug/L	0.509	11.2	25	
2,6-Dinitrotoluene		50000	50000	ug/L	0.350	0.100	25	
2-Chloronaphthalene		50000	41800	ug/L	1.26	16.5	25	
2-Chlorophenol		50000	47900	ug/L	1.31	4.10	25	
2-Methylnaphthalene		50000	52700	ug/L	0.815	5.30	25	
3,3'-Dichlorobenzidine		50000	48700	ug/L	0.383	2.70	25	
4,6-Dinitro-2-Methylphenol		50000	50400	ug/L	0.191	0.700	25	
4-Chloroaniline		50000	50800	ug/L	0.493	1.70	25	
4-Chlorophenyl Phenyl Ether		50000	44500	ug/L	0.754	10.9	25	
Anthracene		50000	55000	ug/L	1.51	9.90	25	
Benzo[a]anthracene		50000	54200	ug/L	1.38	8.40	25	
Benzo[b]fluoranthene		50000	37600	ug/L	1.56	24.9	25	
Benzo[k]fluoranthene		50000	45700	ug/L	1.46	8.70	25	
bis(2-Chloroethoxy)methane		50000	33600	ug/L	0.421	32.7	25	*
bis(2-Chloroisopropyl)ether		50000	44300	ug/L	0.647	11.4	25	
bis(2-Ethylhexyl)phthalate		50000	50800	ug/L	0.711	1.70	25	
Butyl Benzyl Phthalate		50000	45600	ug/L	0.660	8.80	25	
Carbazole		50000	54200	ug/L	1.26	8.50	25	
Chrysene		50000	53800	ug/L	1.30	7.60	25	
Dibenz[ah]anthracene		50000	44600	ug/L	1.48	10.8	25	
Dibenzofuran		50000	44400	ug/L	1.91	11.2	25	
Hexachlorobenzene		50000	52200	ug/L	0.343	4.40	25	
Hexachloroethane		50000	49700	ug/L	0.666	0.700	25	
Isophorone		50000	55900	ug/L	0.832	11.9	25	
Naphthalene		50000	51900	ug/L	1.20	3.70	25	
Nitrobenzene		50000	48900	ug/L	0.480	2.10	25	
Phenanthrene		50000	52800	ug/L	1.46	5.70	25	
Pyrene		50000	57500	ug/L	1.52	15.0	25	

* Exceeds %D Limit

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251507-11
Instrument ID: HPMS5 Run Time: 14:32 Method: 8270C
File ID: 5M48227 Analyst: asp QC Key: DOWWV2006
ICal Workgroup: WG251507 Cal ID: HPMS5 - 01-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
3,3'-Dichlorobenzidine		50000	54000	ug/L	0.425	7.90	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 10/08/2007 Sample ID: WG252219-09
Instrument ID: HPMS12 Run Time: 15:09 Method: 8270C
File ID: 12M18902 Analyst: asp QC Key: DOWWV2006
ICal Workgroup: WG252219 Cal ID: HPMS12 - 08-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	58800	ug/L	0.427	17.6	25	
2,4-Dichlorophenol	CCC	50000	55700	ug/L	0.328	11.5	25	
2-Nitrophenol	CCC	50000	58600	ug/L	0.222	17.3	25	
Benzo[a]pyrene	CCC	50000	59800	ug/L	1.40	19.6	25	
Di-n-Octyl Phthalate	CCC	50000	55500	ug/L	1.55	11.1	25	
Fluoranthene	CCC	50000	59700	ug/L	1.54	19.5	25	
Hexachlorobutadiene	CCC	50000	59700	ug/L	0.246	19.5	25	
Pentachlorophenol	CCC	50000	76500	ug/L	0.201	53.0	25	*
Phenol	CCC	50000	55400	ug/L	1.90	10.8	25	
2,4-Dinitrophenol	SPCC	50000	63700	ug/L	0.198	27.3	25	*
4-Nitrophenol	SPCC	50000	51800	ug/L	0.261	3.60	25	
Hexachlorocyclopentadiene	SPCC	50000	62800	ug/L	0.426	25.7	25	*
2,4,5-Trichlorophenol		50000	59300	ug/L	0.455	18.5	25	
2,4-Dinitrotoluene		50000	60900	ug/L	0.465	21.9	25	
2,6-Dinitrotoluene		50000	56900	ug/L	0.344	13.9	25	
2-Chloronaphthalene		50000	49600	ug/L	1.26	0.800	25	
2-Chlorophenol		50000	54700	ug/L	1.42	9.50	25	
2-Methylnaphthalene		50000	58900	ug/L	0.779	17.9	25	
3,3'-Dichlorobenzidine		50000	56200	ug/L	0.451	12.4	25	
4,6-Dinitro-2-Methylphenol		50000	58000	ug/L	0.185	16.1	25	
4-Chloroaniline		50000	58100	ug/L	0.482	16.1	25	
4-Chlorophenyl Phenyl Ether		50000	52800	ug/L	0.695	5.50	25	
Anthracene		50000	58500	ug/L	1.34	17.0	25	
Benzo[a]anthracene		50000	57100	ug/L	1.39	14.2	25	
Benzo[b]fluoranthene		50000	53500	ug/L	1.48	6.90	25	
Benzo[k]fluoranthene		50000	59900	ug/L	1.42	19.7	25	
bis(2-Chloroethoxy)methane		50000	53200	ug/L	0.440	6.30	25	
bis(2-Chloroisopropyl)ether		50000	50400	ug/L	1.56	0.800	25	
bis(2-Ethylhexyl)phthalate		50000	56600	ug/L	0.839	13.2	25	
Butyl Benzyl Phthalate		50000	58300	ug/L	0.629	16.6	25	
Carbazole		50000	58400	ug/L	1.24	16.8	25	
Chrysene		50000	58300	ug/L	1.29	16.5	25	
Dibenz[ah]anthracene		50000	60100	ug/L	1.35	20.1	25	
Dibenzofuran		50000	58400	ug/L	1.76	16.8	25	
Hexachlorobenzene		50000	57000	ug/L	0.280	14.0	25	
Hexachloroethane		50000	54900	ug/L	0.631	9.70	25	
Isophorone		50000	60300	ug/L	0.767	20.6	25	
Naphthalene		50000	57100	ug/L	1.15	14.3	25	
Nitrobenzene		50000	55000	ug/L	0.436	9.90	25	
Phenanthrene		50000	57100	ug/L	1.31	14.1	25	
Pyrene		50000	59000	ug/L	1.43	17.9	25	

* Exceeds %D Limit

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709522 Run Date: 10/08/2007 Sample ID: WG252219-10
Instrument ID: HPMS12 Run Time: 15:43 Method: 8270C
File ID: 12M18903 Analyst: asp QC Key: DOWWV2006
ICal Workgroup: WG252219 Cal ID: HPMS12 - 08-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
3,3'-Dichlorobenzidine		50000	53500	ug/L	0.429	6.90	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251131-02
Instrument ID: HPMS4 Run Time: 14:23 Method: 8270C
File ID: 4M39409 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251280 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	49100	ug/L	0.365	1.85	20	
2,4-Dichlorophenol	CCC	50000	49500	ug/L	0.285	1.04	25	
2-Nitrophenol	CCC	50000	43300	ug/L	0.155	13.3	20	
4-Chloro-3-Methylphenol	CCC	50000	50800	ug/L	0.317	1.63	20	
Acenaphthene	CCC	50000	48000	ug/L	1.14	3.95	20	
Benzo[a]pyrene	CCC	50000	50300	ug/L	1.32	0.640	20	
Di-n-Octyl Phthalate	CCC	50000	53700	ug/L	1.80	7.31	20	
Fluoranthene	CCC	50000	48300	ug/L	1.29	3.36	25	
Hexachlorobutadiene	CCC	50000	47500	ug/L	0.176	5.08	20	
n-Nitrosodiphenylamine	CCC	50000	49500	ug/L	0.758	1.03	20	
Pentachlorophenol	CCC	50000	45300	ug/L	0.120	9.31	20	
Phenol	CCC	50000	52000	ug/L	1.81	4.01	20	
1,4-Dichlorobenzene	CCC	50000	50000	ug/L	1.69	0.0910	20	
2,4-Dinitrophenol	SPCC	50000	45100	ug/L	0.0535	9.86	25	
4-Nitrophenol	SPCC	50000	46200	ug/L	0.235	7.58	25	
Hexachlorocyclopentadiene	SPCC	50000	44600	ug/L	0.242	10.9	25	
n-Nitrosodipropylamine	SPCC	50000	53300	ug/L	0.948	6.62	25	
2,4,5-Trichlorophenol		50000	48200	ug/L	0.393	3.54	25	
2,4-Dimethylphenol		50000	50300	ug/L	0.310	0.551	25	
2,4-Dinitrotoluene		50000	45900	ug/L	0.312	8.28	25	
2,6-Dinitrotoluene		50000	44100	ug/L	0.287	11.8	25	
2-Chloronaphthalene		50000	47600	ug/L	1.35	4.75	25	
2-Chlorophenol		50000	50700	ug/L	1.45	1.49	25	
2-Methylnaphthalene		50000	48900	ug/L	0.703	2.11	25	
2-Methylphenol		50000	51100	ug/L	1.18	2.21	25	
2-Nitroaniline		50000	49300	ug/L	0.346	1.40	25	
3,3'-Dichlorobenzidine		50000	52300	ug/L	0.440	4.64	25	
3-,4-Methylphenol		50000	51600	ug/L	1.56	3.29	25	
3-Nitroaniline		50000	48500	ug/L	0.315	2.96	25	
4,6-Dinitro-2-Methylphenol		50000	42100	ug/L	0.0797	15.8	25	
4-Bromophenyl Phenyl Ether		50000	47500	ug/L	0.238	5.03	25	
4-Chloroaniline		50000	52500	ug/L	0.445	4.98	25	
4-Chlorophenyl Phenyl Ether		50000	46900	ug/L	0.656	6.23	25	
4-Nitroaniline		50000	49200	ug/L	0.340	1.56	25	
Acenaphthylene		50000	48400	ug/L	1.92	3.14	25	
Anthracene		50000	49500	ug/L	1.29	0.969	25	
Benzo[a]anthracene		50000	50600	ug/L	1.32	1.30	25	
Benzo[b]fluoranthene		50000	49500	ug/L	1.42	0.980	25	
Benzo[ghi]perylene		50000	51900	ug/L	1.21	3.78	25	
Benzo[k]fluoranthene		50000	51800	ug/L	1.37	3.61	25	
bis(2-Chloroethoxy)methane		50000	51800	ug/L	0.542	3.62	25	
bis(2-Chloroethyl)ether		50000	53200	ug/L	1.13	6.48	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251131-02
Instrument ID: HPMS4 Run Time: 14:23 Method: 8270C
File ID: 4M39409 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251280 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	54200	ug/L	2.36	8.33	25	
bis(2-Ethylhexyl)phthalate		50000	53600	ug/L	0.973	7.23	25	
Butyl Benzyl Phthalate		50000	52000	ug/L	0.625	4.05	25	
Carbazole		50000	50100	ug/L	1.20	0.173	25	
Chrysene		50000	50300	ug/L	1.30	0.549	25	
Dibenz[ah]anthracene		50000	52100	ug/L	1.20	4.22	25	
Dibenzofuran		50000	46600	ug/L	1.64	6.76	25	
Diethylphthalate		50000	48000	ug/L	1.44	4.01	25	
Dimethylphthalate		50000	47700	ug/L	1.40	4.67	25	
Di-n-Butyl Phthalate		50000	50500	ug/L	1.57	1.09	25	
Fluorene		50000	47200	ug/L	1.34	5.54	20	
Hexachlorobenzene		50000	47700	ug/L	0.234	4.56	25	
Hexachloroethane		50000	51300	ug/L	0.611	2.60	25	
Indeno[1,2,3-cd]pyrene		50000	52100	ug/L	1.40	4.28	25	
Isophorone		50000	52200	ug/L	0.688	4.47	25	
Naphthalene		50000	49500	ug/L	1.05	0.913	25	
Nitrobenzene		50000	51800	ug/L	0.376	3.58	25	
Phenanthrene		50000	48700	ug/L	1.26	2.63	25	
Pyrene		50000	49000	ug/L	1.34	1.94	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251307-02
Instrument ID: HPMS4 Run Time: 08:23 Method: 8270C
File ID: 4M39464 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251280 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50700	ug/L	0.377	1.48	20	
2,4-Dichlorophenol	CCC	50000	50900	ug/L	0.293	1.78	25	
2-Nitrophenol	CCC	50000	51300	ug/L	0.184	2.63	20	
4-Chloro-3-Methylphenol	CCC	50000	51000	ug/L	0.318	2.01	20	
Acenaphthene	CCC	50000	49100	ug/L	1.17	1.84	20	
Benzo[a]pyrene	CCC	50000	49800	ug/L	1.30	0.460	20	
Di-n-Octyl Phthalate	CCC	50000	52500	ug/L	1.76	4.92	20	
Fluoranthene	CCC	50000	49000	ug/L	1.31	1.99	25	
Hexachlorobutadiene	CCC	50000	50000	ug/L	0.186	0.0506	20	
n-Nitrosodiphenylamine	CCC	50000	49500	ug/L	0.758	0.973	20	
Pentachlorophenol	CCC	50000	49400	ug/L	0.132	1.12	20	
Phenol	CCC	50000	49500	ug/L	1.72	0.997	20	
1,4-Dichlorobenzene	CCC	50000	49700	ug/L	1.69	0.565	20	
2,4-Dinitrophenol	SPCC	50000	57100	ug/L	0.0759	14.2	25	
4-Nitrophenol	SPCC	50000	48000	ug/L	0.244	4.08	25	
Hexachlorocyclopentadiene	SPCC	50000	50200	ug/L	0.269	0.312	25	
n-Nitrosodipropylamine	SPCC	50000	50000	ug/L	0.890	0.0808	25	
2,4,5-Trichlorophenol		50000	49800	ug/L	0.406	0.439	25	
2,4-Dimethylphenol		50000	51000	ug/L	0.314	1.98	25	
2,4-Dinitrotoluene		50000	54700	ug/L	0.372	9.35	25	
2,6-Dinitrotoluene		50000	49000	ug/L	0.320	1.93	25	
2-Chloronaphthalene		50000	47900	ug/L	1.36	4.26	25	
2-Chlorophenol		50000	49200	ug/L	1.41	1.63	25	
2-Methylnaphthalene		50000	50200	ug/L	0.721	0.421	25	
2-Methylphenol		50000	49100	ug/L	1.14	1.82	25	
2-Nitroaniline		50000	50000	ug/L	0.352	0.0600	25	
3,3'-Dichlorobenzidine		50000	51500	ug/L	0.432	2.91	25	
3-,4-Methylphenol		50000	49200	ug/L	1.49	1.51	25	
3-Nitroaniline		50000	50100	ug/L	0.325	0.250	25	
4,6-Dinitro-2-Methylphenol		50000	51800	ug/L	0.105	3.69	25	
4-Bromophenyl Phenyl Ether		50000	48500	ug/L	0.243	3.04	25	
4-Chloroaniline		50000	51800	ug/L	0.439	3.65	25	
4-Chlorophenyl Phenyl Ether		50000	49100	ug/L	0.682	1.71	25	
4-Nitroaniline		50000	49300	ug/L	0.341	1.36	25	
Acenaphthylene		50000	48800	ug/L	1.93	2.48	25	
Anthracene		50000	49800	ug/L	1.30	0.315	25	
Benzo[a]anthracene		50000	50500	ug/L	1.32	0.967	25	
Benzo[b]fluoranthene		50000	50200	ug/L	1.44	0.459	25	
Benzo[ghi]perylene		50000	52000	ug/L	1.21	3.96	25	
Benzo[k]fluoranthene		50000	52500	ug/L	1.39	5.09	25	
bis(2-Chloroethoxy)methane		50000	51000	ug/L	0.534	2.05	25	
bis(2-Chloroethyl)ether		50000	48800	ug/L	1.03	2.31	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251307-02
Instrument ID: HPMS4 Run Time: 08:23 Method: 8270C
File ID: 4M39464 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251280 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	48900	ug/L	2.13	2.12	25	
bis(2-Ethylhexyl)phthalate		50000	52100	ug/L	0.945	4.13	25	
Butyl Benzyl Phthalate		50000	52100	ug/L	0.625	4.20	25	
Carbazole		50000	49600	ug/L	1.19	0.787	25	
Chrysene		50000	50100	ug/L	1.29	0.116	25	
Dibenz[ah]anthracene		50000	52900	ug/L	1.21	5.80	25	
Dibenzofuran		50000	47300	ug/L	1.66	5.34	25	
Diethylphthalate		50000	48000	ug/L	1.44	3.98	25	
Dimethylphthalate		50000	48100	ug/L	1.41	3.74	25	
Di-n-Butyl Phthalate		50000	49600	ug/L	1.54	0.743	25	
Fluorene		50000	48600	ug/L	1.38	2.81	20	
Hexachlorobenzene		50000	48800	ug/L	0.240	2.31	25	
Hexachloroethane		50000	50000	ug/L	0.596	0.0746	25	
Indeno[1,2,3-cd]pyrene		50000	52400	ug/L	1.41	4.84	25	
Isophorone		50000	50400	ug/L	0.664	0.798	25	
Naphthalene		50000	50000	ug/L	1.06	0.00440	25	
Nitrobenzene		50000	53200	ug/L	0.387	6.37	25	
Phenanthrene		50000	48800	ug/L	1.26	2.40	25	
Pyrene		50000	50000	ug/L	1.36	0.0820	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/08/2007 Sample ID: WG252253-02
Instrument ID: HPMS5 Run Time: 14:52 Method: 8270C
File ID: 5M48335 Analyst: ASP QC Key: DOWWV2006
Workgroup (AAB#): WG252133 Cal ID: HPMS5 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	41100	ug/L	0.408	17.8	20	
2,4-Dichlorophenol	CCC	50000	45900	ug/L	0.323	8.21	20	
2-Nitrophenol	CCC	50000	41200	ug/L	0.203	17.6	20	
4-Chloro-3-Methylphenol	CCC	50000	46400	ug/L	0.358	7.25	20	
Acenaphthene	CCC	50000	40800	ug/L	1.29	18.3	20	
Benzo[a]pyrene	CCC	50000	46800	ug/L	1.33	6.35	20	
Di-n-Octyl Phthalate	CCC	50000	46300	ug/L	1.47	7.37	20	
Fluoranthene	CCC	50000	42100	ug/L	1.33	15.8	20	
Hexachlorobutadiene	CCC	50000	51800	ug/L	0.301	3.53	20	
n-Nitrosodiphenylamine	CCC	50000	44800	ug/L	0.718	10.5	20	
Pentachlorophenol	CCC	50000	42300	ug/L	0.166	15.3	20	
Phenol	CCC	50000	41500	ug/L	1.49	17.1	20	
1,4-Dichlorobenzene	CCC	50000	45500	ug/L	1.53	9.01	25	
2,4-Dinitrophenol	SPCC	50000	43000	ug/L	0.191	13.9	25	
4-Nitrophenol	SPCC	50000	36400	ug/L	0.270	27.2	25	*
Hexachlorocyclopentadiene	SPCC	50000	56600	ug/L	0.529	13.3	25	
n-Nitrosodipropylamine	SPCC	50000	48500	ug/L	1.19	3.09	25	
2,4,5-Trichlorophenol		50000	40700	ug/L	0.426	18.5	25	
2,4-Dimethylphenol		50000	41600	ug/L	0.347	16.9	25	
2,4-Dinitrotoluene		50000	40700	ug/L	0.461	18.6	25	
2,6-Dinitrotoluene		50000	42900	ug/L	0.301	14.1	25	
2-Chloronaphthalene		50000	44200	ug/L	1.33	11.7	25	
2-Chlorophenol		50000	42700	ug/L	1.17	14.6	25	
2-Methylnaphthalene		50000	47500	ug/L	0.736	4.95	25	
2-Methylphenol		50000	43700	ug/L	0.956	12.6	25	
2-Nitroaniline		50000	39600	ug/L	0.326	20.8	25	
3,3'-Dichlorobenzidine		50000	41600	ug/L	0.327	16.9	25	
3-,4-Methylphenol		50000	41700	ug/L	1.18	16.6	25	
3-Nitroaniline		50000	35000	ug/L	0.229	30.0	25	*
4,6-Dinitro-2-Methylphenol		50000	40400	ug/L	0.145	19.3	25	
4-Bromophenyl Phenyl Ether		50000	47000	ug/L	0.290	5.95	25	
4-Chloroaniline		50000	41800	ug/L	0.406	16.3	25	
4-Chlorophenyl Phenyl Ether		50000	50000	ug/L	0.867	0.0668	25	
4-Nitroaniline		50000	35800	ug/L	0.299	28.3	25	*
Acenaphthylene		50000	44300	ug/L	1.79	11.4	25	
Anthracene		50000	46200	ug/L	1.27	7.67	25	
Benzo[a]anthracene		50000	48200	ug/L	1.23	3.68	25	
Benzo[b]fluoranthene		50000	45500	ug/L	1.95	9.07	25	
Benzo[ghi]perylene		50000	44800	ug/L	1.22	10.4	25	
Benzo[k]fluoranthene		50000	41800	ug/L	1.33	16.4	25	
bis(2-Chloroethoxy)methane		50000	48000	ug/L	0.601	4.01	25	
bis(2-Chloroethyl)ether		50000	45000	ug/L	0.728	10.0	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/08/2007 Sample ID: WG252253-02
Instrument ID: HPMS5 Run Time: 14:52 Method: 8270C
File ID: 5M48335 Analyst: ASP QC Key: DOWWV2006
Workgroup (AAB#): WG252133 Cal ID: HPMS5 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	41500	ug/L	0.606	17.1	25	
bis(2-Ethylhexyl)phthalate		50000	49500	ug/L	0.692	1.03	25	
Butyl Benzyl Phthalate		50000	50000	ug/L	0.729	0.0950	25	
Carbazole		50000	41300	ug/L	0.962	17.4	25	
Chrysene		50000	48500	ug/L	1.17	3.03	25	
Dibenz[ah]anthracene		50000	42200	ug/L	1.40	15.5	25	
Dibenzofuran		50000	41500	ug/L	1.78	16.9	25	
Diethylphthalate		50000	46400	ug/L	1.41	7.15	25	
Dimethylphthalate		50000	44700	ug/L	1.35	10.6	25	
Di-n-Butyl Phthalate		50000	48600	ug/L	1.41	2.81	25	
Fluorene		50000	42800	ug/L	1.56	14.5	25	
Hexachlorobenzene		50000	47800	ug/L	0.314	4.49	25	
Hexachloroethane		50000	47900	ug/L	0.643	4.17	25	
Indeno[1,2,3-cd]pyrene		50000	42400	ug/L	1.59	15.2	25	
Isophorone		50000	46200	ug/L	0.687	7.56	25	
Naphthalene		50000	45900	ug/L	1.06	8.15	25	
Nitrobenzene		50000	45300	ug/L	0.444	9.46	25	
Phenanthrene		50000	46500	ug/L	1.28	7.04	25	
Pyrene		50000	48600	ug/L	1.29	2.81	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/09/2007 Sample ID: WG252377-02
Instrument ID: HPMS12 Run Time: 14:06 Method: 8270C
File ID: 12M18920 Analyst: asp QC Key: DOWWV2006
Workgroup (AAB#): WG252133 Cal ID: HPMS12 - 08-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52200	ug/L	0.380	4.50	20	
2,4-Dichlorophenol	CCC	50000	51200	ug/L	0.301	2.34	20	
2-Nitrophenol	CCC	50000	52500	ug/L	0.198	5.04	20	
4-Chloro-3-Methylphenol	CCC	50000	53000	ug/L	0.341	5.92	20	
Acenaphthene	CCC	50000	54000	ug/L	1.11	7.99	20	
Benzo[a]pyrene	CCC	50000	52400	ug/L	1.22	4.87	20	
Di-n-Octyl Phthalate	CCC	50000	54400	ug/L	1.51	8.80	20	
Fluoranthene	CCC	50000	52700	ug/L	1.36	5.42	20	
Hexachlorobutadiene	CCC	50000	52000	ug/L	0.214	4.05	20	
n-Nitrosodiphenylamine	CCC	50000	52000	ug/L	0.707	3.95	20	
Pentachlorophenol	CCC	50000	58000	ug/L	0.153	16.0	20	
Phenol	CCC	50000	51300	ug/L	1.76	2.66	20	
1,4-Dichlorobenzene	CCC	50000	51600	ug/L	1.57	3.15	25	
2,4-Dinitrophenol	SPCC	50000	47300	ug/L	0.135	5.48	25	
4-Nitrophenol	SPCC	50000	49500	ug/L	0.249	0.979	25	
Hexachlorocyclopentadiene	SPCC	50000	55800	ug/L	0.378	11.7	25	
n-Nitrosodipropylamine	SPCC	50000	54800	ug/L	0.925	9.50	25	
2,4,5-Trichlorophenol		50000	51200	ug/L	0.393	2.34	25	
2,4-Dimethylphenol		50000	52200	ug/L	0.331	4.38	25	
2,4-Dinitrotoluene		50000	54200	ug/L	0.413	8.34	25	
2,6-Dinitrotoluene		50000	50600	ug/L	0.306	1.28	25	
2-Chloronaphthalene		50000	52700	ug/L	1.34	5.31	25	
2-Chlorophenol		50000	50800	ug/L	1.32	1.53	25	
2-Methylnaphthalene		50000	52200	ug/L	0.690	4.38	25	
2-Methylphenol		50000	39300	ug/L	1.05	21.5	25	
2-Nitroaniline		50000	52500	ug/L	0.408	5.05	25	
3,3'-Dichlorobenzidine		50000	51200	ug/L	0.411	2.31	25	
3-,4-Methylphenol		50000	46500	ug/L	1.41	6.95	25	
3-Nitroaniline		50000	48600	ug/L	0.296	2.76	25	
4,6-Dinitro-2-Methylphenol		50000	47000	ug/L	0.145	6.06	25	
4-Bromophenyl Phenyl Ether		50000	52000	ug/L	0.260	4.06	25	
4-Chloroaniline		50000	51700	ug/L	0.429	3.41	25	
4-Chlorophenyl Phenyl Ether		50000	52400	ug/L	0.691	4.84	25	
4-Nitroaniline		50000	54200	ug/L	0.331	8.46	25	
Acenaphthylene		50000	52200	ug/L	1.73	4.37	25	
Anthracene		50000	52700	ug/L	1.21	5.42	25	
Benzo[a]anthracene		50000	50900	ug/L	1.24	1.76	25	
Benzo[b]fluoranthene		50000	53600	ug/L	1.48	7.12	25	
Benzo[ghi]perylene		50000	53900	ug/L	1.13	7.73	25	
Benzo[k]fluoranthene		50000	52400	ug/L	1.24	4.78	25	
bis(2-Chloroethoxy)methane		50000	51600	ug/L	0.428	3.27	25	
bis(2-Chloroethyl)ether		50000	52900	ug/L	0.951	5.85	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/09/2007 Sample ID: WG252377-02
Instrument ID: HPMS12 Run Time: 14:06 Method: 8270C
File ID: 12M18920 Analyst: asp QC Key: DOWWV2006
Workgroup (AAB#): WG252133 Cal ID: HPMS12 - 08-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	52600	ug/L	1.63	5.27	25	
bis(2-Ethylhexyl)phthalate		50000	52700	ug/L	0.781	5.36	25	
Butyl Benzyl Phthalate		50000	53000	ug/L	0.572	5.97	25	
Carbazole		50000	52300	ug/L	1.11	4.52	25	
Chrysene		50000	51700	ug/L	1.15	3.40	25	
Dibenz[ah]anthracene		50000	55400	ug/L	1.24	10.8	25	
Dibenzofuran		50000	52100	ug/L	1.57	4.18	25	
Diethylphthalate		50000	52700	ug/L	1.26	5.35	25	
Dimethylphthalate		50000	51300	ug/L	1.29	2.62	25	
Di-n-Butyl Phthalate		50000	53300	ug/L	1.38	6.67	25	
Fluorene		50000	55200	ug/L	1.33	10.4	25	
Hexachlorobenzene		50000	53300	ug/L	0.262	6.51	25	
Hexachloroethane		50000	52700	ug/L	0.606	5.45	25	
Indeno[1,2,3-cd]pyrene		50000	54600	ug/L	1.42	9.17	25	
Isophorone		50000	51900	ug/L	0.661	3.86	25	
Naphthalene		50000	51900	ug/L	1.04	3.81	25	
Nitrobenzene		50000	52100	ug/L	0.414	4.17	25	
Phenanthrene		50000	52800	ug/L	1.21	5.54	25	
Pyrene		50000	52400	ug/L	1.27	4.72	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG250777-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-24-SEP-07
Workgroup (AAB#): WG251280 **Matrix:** WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG250777-02	NA	NA	304970	714290	1183846	1244550	1093077	1149159
Upper Limit	NA	NA	609940	1428580	2367692	2489100	2186154	2298318
Lower Limit	NA	NA	152485	357145	591923	622275	546539	574580
L0709522-03	1.00	01	236849	543638	876865	960927	788656	856500
WG250685-02	1.00	01	302421	669997	1031830	1212888	919738	1044070
WG250685-03	1.00	01	317511	737134	1191837	1443554	1112772	1163623

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 885182
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KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG251507-02
Instrument ID: HPMS5 **CAL ID:** HPMS5-01-OCT-07
Workgroup (AAB#): WG252133 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG251507-02	NA	NA	187872	429574	785530	669475	615075	704448
Upper Limit	NA	NA	375744	859148	1571060	1338950	1230150	1408896
Lower Limit	NA	NA	93936	214787	392765	334738	307538	352224
L0709522-01	10.0	DL01	230328	549758	884821	837724	710141	895719
L0709522-02	10.0	DL01	212935	512107	820167	783532	654416	831168
L0709522-04	10.0	DL01	220963	536088	862276	807755	697010	873927
L0709522-05	10.0	DL01	236552	579175	911335	862105	752206	934401
L0709522-06	1.00	01	258237	632278	1043208	939536	830799	1026606
L0709522-07	50.0	DL01	224033	539924	836862	829264	672322	874776
WG251302-01	1.00	02	261146	663357	1076967	973777	870626	1086602
WG251302-02	1.00	02	241409	638300	1105696	954663	813496	999987
WG251302-03	1.00	02	268441	698733	1233968	1070908	894759	1101879

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 885182
Report generated 10/10/2007 14:06

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG252219-02
Instrument ID: HPMS12 **CAL ID:** HPMS12-08-OCT-07
Workgroup (AAB#): WG252133 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG252219-02	NA	NA	76141	174473	312601	283991	284770	276006
Upper Limit	NA	NA	152282	348946	625202	567982	569540	552012
Lower Limit	NA	NA	38071	87237	156301	141996	142385	138003
L0709522-08	1.00	01	63008	146907	237999	240492	200703	227661

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 885182
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KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG250777-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-24-SEP-07
Workgroup (AAB#): WG251280 **Matrix:** WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG250777-02	NA	NA	9.29	13.01	17.49	10.9	20	14.62
Upper Limit	NA	NA	9.79	13.51	17.99	11.4	20.5	15.12
Lower Limit	NA	NA	8.79	12.51	16.99	10.4	19.5	14.12
L0709522-03	1.00	01	9.29	13	17.48	10.89	19.99	14.61
WG250685-02	1.00	01	9.29	13	17.49	10.89	19.99	14.61
WG250685-03	1.00	01	9.29	13.01	17.49	10.89	19.99	14.61

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG251507-02
Instrument ID: HPMS5 **CAL ID:** HPMS5-01-OCT-07
Workgroup (AAB#): WG252133 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG251507-02	NA	NA	9.16	12.87	17.3	10.76	19.65	14.48
Upper Limit	NA	NA	9.66	13.37	17.8	11.26	20.15	14.98
Lower Limit	NA	NA	8.66	12.37	16.8	10.26	19.15	13.98
L0709522-01	10.0	DL01	9.15	12.86	17.28	10.75	19.61	14.47
L0709522-02	10.0	DL01	9.15	12.86	17.28	10.75	19.61	14.47
L0709522-04	10.0	DL01	9.15	12.86	17.28	10.75	19.61	14.46
L0709522-05	10.0	DL01	9.15	12.86	17.28	10.75	19.61	14.47
L0709522-06	1.00	01	9.15	12.87	17.28	10.75	19.61	14.47
L0709522-07	50.0	DL01	9.15	12.86	17.28	10.75	19.61	14.46
WG251302-01	1.00	02	9.15	12.86	17.28	10.75	19.62	14.47
WG251302-02	1.00	02	9.15	12.86	17.28	10.75	19.62	14.47
WG251302-03	1.00	02	9.15	12.87	17.28	10.76	19.62	14.47

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709522 **ICAL CCV Number:** WG252219-02
Instrument ID: HPMS12 **CAL ID:** HPMS12-08-OCT-07
Workgroup (AAB#): WG252133 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG252219-02	NA	NA	9	12.71	17.12	10.6	19.29	14.34
Upper Limit	NA	NA	9.5	13.21	17.62	11.1	19.79	14.84
Lower Limit	NA	NA	8.5	12.21	16.62	10.1	18.79	13.84
L0709522-08	1.00	01	8.99	12.7	17.1	10.59	19.28	14.33

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
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2.3 Metals Data

2.3.1 Metals I C P Data

2.3.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709522

METHOD

Preparation: SW-846 3050B

Analysis: SW-846 6010

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.

Serial Dilution/Post Digestion Spike: WG251419(6010) - 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: KHR

Approved: 09-OCT-07

LABORATORY REPORT

L0709522

10/11/07 11:01

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG 707/706/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0076-SO-092007	L0709522-01	6010B	1	21-SEP-07
0076-SO-092007/FD	L0709522-02	6010B	1	21-SEP-07
0077-SO-092007	L0709522-04	6010B	1	21-SEP-07
0078-SO-092007	L0709522-05	6010B	1	21-SEP-07
0079-SO-092007	L0709522-06	6010B	1	21-SEP-07
0080-SO-092007	L0709522-07	6010B	1	21-SEP-07
0081-SO-092007	L0709522-08	6010B	1	21-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:29**
File ID: **IR.092807.172900**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.47	0.184
Barium, Total	7440-39-3	115		0.367	0.0734
Cadmium, Total	7440-43-9		U	0.367	0.0367
Chromium, Total	7440-47-3	19.9		0.734	0.0881
Lead, Total	7439-92-1	21.3		3.67	0.367

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:35**
File ID: **IR.092807.173500**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.59	0.199
Barium, Total	7440-39-3	84.8		0.398	0.0796
Cadmium, Total	7440-43-9		U	0.398	0.0398
Chromium, Total	7440-47-3	16.8		0.796	0.0955
Lead, Total	7439-92-1	15.8		3.98	0.398

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:41**
File ID: **IR.092807.174100**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.63	0.204
Barium, Total	7440-39-3	182		0.407	0.0815
Cadmium, Total	7440-43-9		U	0.407	0.0407
Chromium, Total	7440-47-3	19.8		0.815	0.0978
Lead, Total	7439-92-1	17.2		4.07	0.407

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 14:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:47**
File ID: **IR.092807.174700**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.58	0.198
Barium, Total	7440-39-3	158		0.396	0.0792
Cadmium, Total	7440-43-9		U	0.396	0.0396
Chromium, Total	7440-47-3	20.3		0.792	0.0950
Lead, Total	7439-92-1	22.2		3.96	0.396

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:53**
File ID: **IR.092807.175300**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.80	0.225
Barium, Total	7440-39-3	115		0.450	0.0900
Cadmium, Total	7440-43-9		U	0.450	0.0450
Chromium, Total	7440-47-3	24.4		0.900	0.108
Lead, Total	7439-92-1	21.0		4.50	0.450

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-07**
Client ID: **0080-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 16:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 17:59**
File ID: **IR.092807.175900**
Percent Solid: **85.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.80	0.225
Barium, Total	7440-39-3	136		0.449	0.0899
Cadmium, Total	7440-43-9		U	0.449	0.0449
Chromium, Total	7440-47-3	23.6		0.899	0.108
Lead, Total	7439-92-1	27.0		4.49	0.449

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251419**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **09/25/2007 05:55**
Cal Date: **09/28/2007 08:48**
Run Date: **09/28/2007 18:05**
File ID: **IR.092807.180500**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.76	0.220
Barium, Total	7440-39-3	162		0.440	0.0880
Cadmium, Total	7440-43-9		U	0.440	0.0440
Chromium, Total	7440-47-3	21.0		0.880	0.106
Lead, Total	7439-92-1	25.9		4.40	0.440

U Not detected at or above the reporting limit

2.3.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Example 6010 Calculations
Thermo Scientific IRIS Advantage

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

KEMRON ENVIRONMENTAL SERVICES

Metals Digest Log

Analyst(s): [signature]
Date: 9/25/07
LCS: 5ml STD 21660
MS/MSD: 5ml STD 21660
Witness: [signature]
HNO_3 Lot #: COD 12526
1:1HNO_3: PCT 12032
HCl Lot #: COD 12527
H_2O_2 Lot #: COD 12456
Earliest Sample Due Date: 10/1/07
Digest Tube Lot #: COD 12400
Hotblock #: 1
Hotblock Temp - Start: 94.9°C 0555
Hotblock Temp - End: 95.0°C 1135

Box: 05
Digestion Work Group: WG 250929

General Digestion
ME401 Revision # _____ - Method 3005A-Water
ME403 Revision # 12 - Method 3050B-Soil

Furnace Digestion
ME402 Revision # _____ - Method 3020A-Water
ME403 Revision # _____ - Method 3050B-Soil

AS/SE Digestion
ME410 Revision # _____ - Method 7060/7740-Water

Relinquished By: [signature]
Digest Received By: [signature] Date: 9/25/07

	KEMRON #	Initial WT/Vol	Final Volume	Comments	Due Date
1	MBS	1.005	50ml	-02	
2	LCSS	1		-03	
3	09.522-01	1.44		level 4	10/5
4	-02	1.43			
5	-04	1.45			
6	-05	1.46			
7	-06	1.35			
8	-07	1.30			
9	-08	1.30			
10	09.555-01	1.45			10/5
11	-02	1.47			
12	-03	1.45			
13	-04	1.47			
14	-05	1.39			
15	-06	1.41			
16	-07	1.42			
17	09.571-01	1.39		level 4	10/1
18	-02	1.37			
19	-03	1.30			
20	-04	1.38		-01	
21	-04/MS			-04	
22	-04 MD			-05	
23					
24					
25					
26					
27					
28					

[signature] 9/25/07

Comments:

Primary Review: [signature] 9/25/07

Secondary Review: Emily Decker 09-25-07

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20070928.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21053

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251211, 251254, 251419, 251420, 251421, 251422

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	IR.092807.081700	WG251400-01	Calibration Point		1		09/28/07 08:17
2	IR.092807.082300	WG251400-02	Calibration Point		1		09/28/07 08:23
3	IR.092807.083000	WG251400-03	Calibration Point		1		09/28/07 08:30
4	IR.092807.083600	WG251400-04	Calibration Point		1		09/28/07 08:36
5	IR.092807.084200	WG251400-05	Calibration Point		1		09/28/07 08:42
6	IR.092807.084800	WG251400-06	Calibration Point		1		09/28/07 08:48
7	IR.092807.085500	WG251400-07	Initial Calibration Verification		1		09/28/07 08:55
8	IR.092807.090100	WG251400-08	Initial Calib Blank		1		09/28/07 09:01
9	IR.092807.090700	WG251400-09	Interference Check		1		09/28/07 09:07
10	IR.092807.091600	WG251400-10	Initial Calibration Verification		1		09/28/07 09:16
11	IR.092807.092300	WG251400-11	Initial Calib Blank		1		09/28/07 09:23
12	IR.092807.092900	WG251400-12	Interference Check		1		09/28/07 09:29
13	IR.092807.093500	WG251400-13	Interference Check		1		09/28/07 09:35
14	IR.092807.094100	WG251400-14	CCV		1		09/28/07 09:41
15	IR.092807.094700	WG251400-15	CCB		1		09/28/07 09:47
16	IR.092807.095300	WG251192-02	Method/Prep Blank	1/50	1		09/28/07 09:53
17	IR.092807.095900	WG251192-03	Laboratory Control Sample	1/50	1		09/28/07 09:59
18	IR.092807.100500	WG251192-01	Reference Sample		1	L0709633-10	09/28/07 10:05
19	IR.092807.101100	WG251192-04	Matrix Spike	1.32/50	1		09/28/07 10:11
20	IR.092807.101700	WG251192-05	Matrix Spike Duplicate	1.32/50	1		09/28/07 10:17
21	IR.092807.102300	L0709633-01	CD-SS-BP303-001	1.3/50	1		09/28/07 10:23
22	IR.092807.102900	L0709633-09	CD-SS-BP304-003	1.34/50	1		09/28/07 10:29
23	IR.092807.103500	WG251257-01	Post Digestion Spike		1		09/28/07 10:35
24	IR.092807.104100	WG251257-02	Serial Dilution		5		09/28/07 10:41
25	IR.092807.104800	WG251257-02	Serial Dilution		25		09/28/07 10:48
26	IR.092807.105400	WG251400-16	CCV		1		09/28/07 10:54
27	IR.092807.110000	WG251400-17	CCB		1		09/28/07 11:00
28	IR.092807.110600	L0709633-02	CD-SS-BP301-001	1.37/50	1		09/28/07 11:06
29	IR.092807.111200	L0709633-03	CD-SS-BP305-001	1.36/50	1		09/28/07 11:12
30	IR.092807.111800	L0709633-04	CD-SS-BP305-002	1.37/50	1		09/28/07 11:18
31	IR.092807.112400	L0709633-05	CD-SS-BP302-001	1.33/50	1		09/28/07 11:24
32	IR.092807.113000	L0709633-06	CD-SS-BP305-003	1.3/50	1		09/28/07 11:30
33	IR.092807.113600	L0709633-07	CD-SS-BP304-001	1.35/50	1		09/28/07 11:36
34	IR.092807.114200	L0709633-08	CD-SS-BP304-001-A	1.35/50	1		09/28/07 11:42
35	IR.092807.114800	L0709633-11	CD-TS-BS001-001	1.3/50	1		09/28/07 11:48
36	IR.092807.115400	L0709643-01	AV-OU10-PE-S40-1-2-C-	1.34/50	1		09/28/07 11:54
37	IR.092807.120000	L0709643-02	AV-OU10-PE-S41-1-2-C-	1.34/50	1		09/28/07 12:00

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20070928.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21053

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251211, 251254, 251419, 251420, 251421, 251422

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	IR.092807.120600	WG251400-18	CCV		1		09/28/07 12:06
39	IR.092807.121200	WG251400-19	CCB		1		09/28/07 12:12
40	IR.092807.121900	L0709644-02	AV-NCB-PE-ELE-40-C3-0	1.43/50	1		09/28/07 12:19
41	IR.092807.122500	L0709644-03	AV-NCB-AS-ELE-4-09240	1.3/50	1		09/28/07 12:25
42	IR.092807.123100	L0709624-01	SFS	1.34/50	1		09/28/07 12:31
43	IR.092807.123700	WG251400-20	CCV		1		09/28/07 12:37
44	IR.092807.124300	WG251400-21	CCB		1		09/28/07 12:43
45	IR.092807.125300	L0709553-01	S105	1.37/50	2		09/28/07 12:53
46	IR.092807.125900	WG251211-01	Post Digestion Spike		2		09/28/07 12:59
47	IR.092807.130500	WG251052-01	Reference Sample		10	L0709596-02	09/28/07 13:05
48	IR.092807.131100	WG251052-04	Matrix Spike	1.32/50	10	L0709596-04	09/28/07 13:11
49	IR.092807.131700	WG251052-05	Matrix Spike Duplicate	1.32/50	10	L0709596-05	09/28/07 13:17
50	IR.092807.132300	L0709596-03	CD-SS-BP301-003-A	1.31/50	10		09/28/07 13:23
51	IR.092807.133000	L0709596-07	CD-SS-BP302-002	1.32/50	10		09/28/07 13:30
52	IR.092807.133600	WG251400-22	CCV		1		09/28/07 13:36
53	IR.092807.134200	WG251400-23	CCB		1		09/28/07 13:42
54	IR.092807.143200	WG251400-24	Linear Range Check		1		09/28/07 14:32
55	IR.092807.143800	WG251400-24	Linear Range Check		1		09/28/07 14:38
56	IR.092807.144400	WG251400-24	Linear Range Check		1		09/28/07 14:44
57	IR.092807.145100	WG251400-24	Linear Range Check		1		09/28/07 14:51
58	IR.092807.145700	WG251400-24	Linear Range Check		1		09/28/07 14:57
59	IR.092807.150300	WG251400-24	Linear Range Check		1		09/28/07 15:03
60	IR.092807.151100	L0709624-01	SFS	1.34/50	5		09/28/07 15:11
61	IR.092807.151700	WG251400-25	CCV		1		09/28/07 15:17
62	IR.092807.152300	WG251400-26	CCB		1		09/28/07 15:23
63	IR.092807.160700	WG250929-02	Method/Prep Blank	1/50	1		09/28/07 16:07
64	IR.092807.161300	WG250929-03	Laboratory Control Sample	1/50	1		09/28/07 16:13
65	IR.092807.161900	WG250929-01	Reference Sample		1	L0709571-04	09/28/07 16:19
66	IR.092807.162600	WG250929-04	Matrix Spike	1.38/50	1		09/28/07 16:26
67	IR.092807.163400	WG250929-05	Matrix Spike Duplicate	1.38/50	1		09/28/07 16:34
68	IR.092807.164100	L0709571-01	AV-NCB-PE-AC1-32-C2-0	1.39/50	1		09/28/07 16:41
69	IR.092807.164800	L0709555-01	ORSED 8.6	1.45/50	1		09/28/07 16:48
70	IR.092807.165500	WG251419-01	Post Digestion Spike		1		09/28/07 16:55
71	IR.092807.170200	WG251419-02	Serial Dilution		5		09/28/07 17:02
72	IR.092807.170900	WG251419-02	Serial Dilution		25		09/28/07 17:09
73	IR.092807.171700	WG251400-27	CCV		1		09/28/07 17:17
74	IR.092807.172300	WG251400-28	CCB		1		09/28/07 17:23

Page: 2

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20070928.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21053

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251211, 251254, 251419, 251420, 251421, 251422

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	IR.092807.172900	L0709522-01	0076-SO-092007	1.44/50	1	WG250937-01	09/28/07 17:29
76	IR.092807.173500	L0709522-02	0076-SO-092007/FD	1.43/50	1		09/28/07 17:35
77	IR.092807.174100	L0709522-04	0077-SO-092007	1.45/50	1		09/28/07 17:41
78	IR.092807.174700	L0709522-05	0078-SO-092007	1.46/50	1		09/28/07 17:47
79	IR.092807.175300	L0709522-06	0079-SO-092007	1.35/50	1		09/28/07 17:53
80	IR.092807.175900	L0709522-07	0080-SO-092007	1.3/50	1		09/28/07 17:59
81	IR.092807.180500	L0709522-08	0081-SO-092007	1.3/50	1		09/28/07 18:05
82	IR.092807.181100	L0709555-02	ORSED 8.0	1.47/50	1		09/28/07 18:11
83	IR.092807.181700	L0709555-03	ORSED 6.8	1.45/50	1		09/28/07 18:17
84	IR.092807.182300	L0709555-04	ORSED 6.2	1.47/50	1		09/28/07 18:23
85	IR.092807.183000	WG251400-29	CCV		1		09/28/07 18:30
86	IR.092807.183600	WG251400-30	CCB		1		09/28/07 18:36
87	IR.092807.184200	L0709555-05	ORSED 3.8	1.39/50	1		09/28/07 18:42
88	IR.092807.184800	L0709555-06	ORSED 2.5	1.41/50	1		09/28/07 18:48
89	IR.092807.185400	L0709555-07	ORSED 4.4	1.42/50	1		09/28/07 18:54
90	IR.092807.190000	L0709571-02	AV-NCB-AS-AC1-3-09200	1.37/50	1		09/28/07 19:00
91	IR.092807.190600	L0709571-03	AV-NCB-PE-UNK-32-C1-0	1.3/50	1		09/28/07 19:06
92	IR.092807.191200	WG251331-02	Method/Prep Blank	1/50	1		09/28/07 19:12
93	IR.092807.191800	WG251331-03	Laboratory Control Sample	1/50	1		09/28/07 19:18
94	IR.092807.192400	WG251331-01	Reference Sample		1	L0709680-03	09/28/07 19:24
95	IR.092807.193000	WG251331-04	Matrix Spike	1.3/50	1		09/28/07 19:30
96	IR.092807.193600	WG251331-05	Matrix Spike Duplicate	1.3/50	1		09/28/07 19:36
97	IR.092807.194300	WG251400-31	CCV		1		09/28/07 19:43
98	IR.092807.194900	WG251400-32	CCB		1		09/28/07 19:49
99	IR.092807.195500	L0709680-01	LINE 01 TOPSOIL	1.31/50	1	WG251360-04	09/28/07 19:55
100	IR.092807.200100	L0709574-01	D-193-SE001(4.0-4.5)	1.3/50	1		09/28/07 20:01
101	IR.092807.200700	L0709574-02	D-193-SE002(4.0-4.5)	1.44/50	1	WG251391-01	09/28/07 20:07
102	IR.092807.201300	L0709574-03	D-193-SE003(4.0-4.5)	1.4/50	1		09/28/07 20:13
103	IR.092807.201900	L0709574-04	D-193-SE004(4.0-4.5)	1.35/50	1		09/28/07 20:19
104	IR.092807.202500	WG251420-01	Post Digestion Spike		1		09/28/07 20:25
105	IR.092807.203100	WG251420-02	Serial Dilution		5		09/28/07 20:31
106	IR.092807.203700	WG251420-02	Serial Dilution		25		09/28/07 20:37
107	IR.092807.204400	L0709574-05	D-193-SE005(4.0-4.5)	1.37/50	1		09/28/07 20:44
108	IR.092807.205000	L0709574-06	D-193-SE006(4.0-4.5)	1.41/50	1		09/28/07 20:50
109	IR.092807.205600	WG251400-33	CCV		1		09/28/07 20:56
110	IR.092807.210200	WG251400-34	CCB		1		09/28/07 21:02
111	IR.092807.210800	L0709574-07	D-193-SE007(6.5-7.0)	1.39/50	1		09/28/07 21:08

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20070928.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21053

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251211, 251254, 251419, 251420, 251421, 251422

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	IR.092807.211400	L0709574-08	D-193-SE008(6.5-7.0)	1.32/50	1		09/28/07 21:14
113	IR.092807.212000	L0709574-09	D-193-SE009(6.5-7.0)	1.42/50	1		09/28/07 21:20
114	IR.092807.212600	L0709574-10	D-193-SE010(6.5-7.0)	1.49/50	1		09/28/07 21:26
115	IR.092807.213200	L0709610-01	GM07158	1.12/50	1		09/28/07 21:32
116	IR.092807.213800	WG251135-02	Method/Prep Blank	50/50	1		09/28/07 21:38
117	IR.092807.214400	WG251135-03	Laboratory Control Sample	50/50	1		09/28/07 21:44
118	IR.092807.215000	L0709543-01	S0709210-01A/GM070073	5/50	1		09/28/07 21:50
119	IR.092807.215700	WG251135-01	Reference Sample		1	L0709543-02	09/28/07 21:57
120	IR.092807.220300	WG251135-04	Matrix Spike	5/50	1		09/28/07 22:03
121	IR.092807.220900	WG251400-35	CCV		1		09/28/07 22:09
122	IR.092807.221500	WG251400-36	CCB		1		09/28/07 22:15
123	IR.092807.222100	WG251135-05	Matrix Spike Duplicate	5/50	1		09/28/07 22:21
124	IR.092807.222700	L0709543-03	S0709210-03A/GM070075	5/50	1		09/28/07 22:27
125	IR.092807.223300	WG251421-01	Post Digestion Spike		1		09/28/07 22:33
126	IR.092807.223900	WG251421-02	Serial Dilution		5		09/28/07 22:39
127	IR.092807.224500	L0709577-01	S0709213-01A/GM070069	5/50	1		09/28/07 22:45
128	IR.092807.225200	L0709577-03	S0709213-03A/GN070071	5/50	1		09/28/07 22:52
129	IR.092807.225800	WG250988-01	Fluid Blank		1		09/28/07 22:58
130	IR.092807.230400	WG251232-01	Method/Prep Blank	.25/50	1		09/28/07 23:04
131	IR.092807.231000	WG251232-02	Laboratory Control Sample	.25/50	1		09/28/07 23:10
132	IR.092807.231600	WG251232-03	Laboratory Control Sample (2	.25/50	1		09/28/07 23:16
133	IR.092807.232300	WG251400-37	CCV		1		09/28/07 23:23
134	IR.092807.232900	WG251400-38	CCB		1		09/28/07 23:29
135	IR.092807.233500	L0709483-01	OF 0061/TANK 3	.26/50	1	WG251292-04	09/28/07 23:35
136	IR.092807.234100	L0709483-02	OF 0061/TANK 4	.26/50	1		09/28/07 23:41
137	IR.092807.234700	L0709501-14	MW-23(OIL)	.25/50	1	WG250795-03	09/28/07 23:47
138	IR.092807.235300	L0709577-02	S0709213-02A/GM070070/T	.28/50	1		09/28/07 23:53
139	IR.092807.235900	L0709501-13	MW-19S(OIL)	.26/50	1		09/28/07 23:59
140	IR.092907.000500	WG251422-01	Post Digestion Spike		1		09/29/07 00:05
141	IR.092907.001200	WG251422-02	Serial Dilution		5		09/29/07 00:12
142	IR.092907.001800	WG251400-39	CCV		1		09/29/07 00:18
143	IR.092907.002400	WG251400-40	CCB		1		09/29/07 00:24

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071001.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21070

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	IR.100107.083700	WG251605-01	Calibration Point		1		10/01/07 08:37
2	IR.100107.084300	WG251605-02	Calibration Point		1		10/01/07 08:43
3	IR.100107.084900	WG251605-03	Calibration Point		1		10/01/07 08:49
4	IR.100107.085500	WG251605-04	Calibration Point		1		10/01/07 08:55
5	IR.100107.090100	WG251605-05	Calibration Point		1		10/01/07 09:01
6	IR.100107.090700	WG251605-06	Calibration Point		1		10/01/07 09:07
7	IR.100107.091500	WG251605-07	Initial Calibration Verification		1		10/01/07 09:15
8	IR.100107.092100	WG251605-08	Initial Calib Blank		1		10/01/07 09:21
9	IR.100107.092700	WG251605-09	Interference Check		1		10/01/07 09:27
10	IR.100107.093300	WG251605-10	Interference Check		1		10/01/07 09:33
11	IR.100107.093900	WG251605-11	CCV		1		10/01/07 09:39
12	IR.100107.094500	WG251605-12	CCB		1		10/01/07 09:45
13	IR.100107.095100	L0709633-01	CD-SS-BP303-001	1.3/50	100		10/01/07 09:51
14	IR.100107.095700	WG251354-02	Method/Prep Blank	1/50	1		10/01/07 09:57
15	IR.100107.100300	WG251354-03	Laboratory Control S	1/50	1		10/01/07 10:03
16	IR.100107.100900	L0709663-01	CONFIRMATION	1.35/50	1		10/01/07 10:09
17	IR.100107.101500	L0709617-01	14409-C0002	1.35/50	1		10/01/07 10:15
18	IR.100107.102200	WG251354-01	Reference Sample		1	L0709617-02	10/01/07 10:22
19	IR.100107.102800	WG251354-04	Matrix Spike	1.35/50	1	L0709617-03	10/01/07 10:28
20	IR.100107.103400	WG251354-05	Matrix Spike Duplica	1.35/50	1	L0709617-04	10/01/07 10:34
21	IR.100107.104000	L0709617-05	14409-C0009	1.35/50	1		10/01/07 10:40
22	IR.100107.104600	WG251476-01	Post Digestion Spike		1	L0709617-05	10/01/07 10:46
23	IR.100107.105200	WG251605-13	CCV		1		10/01/07 10:52
24	IR.100107.105800	WG251605-14	CCB		1		10/01/07 10:58
25	IR.100107.110400	WG251476-02	Serial Dilution		5	L0709617-05	10/01/07 11:04
26	IR.100107.111000	WG251476-02	Serial Dilution		25	L0709617-05	10/01/07 11:10
27	IR.100107.111700	L0709617-11	14410-C0001	1.37/50	1		10/01/07 11:17
28	IR.100107.112300	L0709617-12	14410-C0002	1.36/50	1		10/01/07 11:23
29	IR.100107.112900	L0709617-13	14410-C0005	1.4/50	1		10/01/07 11:29
30	IR.100107.113500	L0709617-14	14410-C0006	1.35/50	1		10/01/07 11:35
31	IR.100107.114100	L0709617-15	14410-C0009	1.35/50	1		10/01/07 11:41
32	IR.100107.114700	L0709617-16	14410-C0010	1.35/50	1		10/01/07 11:47
33	IR.100107.115300	L0709617-17	14410-C0013	1.37/50	1		10/01/07 11:53
34	IR.100107.115900	L0709617-18	14410-C0015	1.35/50	1	WG251565-01	10/01/07 11:59
35	IR.100107.120500	WG251605-15	CCV		1		10/01/07 12:05
36	IR.100107.121100	WG251605-16	CCB		1		10/01/07 12:11
37	IR.100107.121700	L0709617-19	14412-C0001	1.36/50	1		10/01/07 12:17

Approved: October 03, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071001.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21070

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	IR.100107.122400	L0709617-20	14412-C0002	1.35/50	1		10/01/07 12:24
39	IR.100107.123000	L0709617-21	14412-C0005	1.35/50	1	WG251480-01	10/01/07 12:30
40	IR.100107.123600	L0709617-22	14412-C0006	1.38/50	1		10/01/07 12:36
41	IR.100107.124200	L0709617-23	14412-C0009	1.35/50	1		10/01/07 12:42
42	IR.100107.124800	L0709617-24	14412-C0010	1.37/50	1		10/01/07 12:48
43	IR.100107.125400	WG251605-17	CCV		1		10/01/07 12:54
44	IR.100107.130000	WG251605-18	CCB		1		10/01/07 13:00
45	IR.100107.133600	L0709470-01	TRACE METALS		1		10/01/07 13:36
46	IR.100107.134200	L0709555-02	ORSED 8.0	1.47/50	10		10/01/07 13:42
47	IR.100107.134800	L0709555-05	ORSED 3.8	1.39/50	10		10/01/07 13:48
48	IR.100107.135400	L0709555-06	ORSED 2.5	1.41/50	10		10/01/07 13:54
49	IR.100107.140000	L0709571-01	AV-NCB-PE-AC1-32-C2-0	1.39/50	10		10/01/07 14:00
50	IR.100107.140600	L0709571-02	AV-NCB-AS-AC1-3-09200	1.37/50	10		10/01/07 14:06
51	IR.100107.141200	WG250929-01	Reference Sample		5	L0709571-04	10/01/07 14:12
52	IR.100107.141800	WG250929-04	Matrix Spike	1.38/50	5		10/01/07 14:18
53	IR.100107.142400	WG250929-05	Matrix Spike Duplica	1.38/50	5		10/01/07 14:24
54	IR.100107.143000	L0709680-01	LINE 01 TOPSOIL		2		10/01/07 14:30
55	IR.100107.143600	WG251605-19	CCV		1		10/01/07 14:36
56	IR.100107.144300	WG251605-20	CCB		1		10/01/07 14:43
57	IR.100107.144900	L0709574-02	D-193-SE002(4.0-4.5)	1.44/50	10		10/01/07 14:49
58	IR.100107.145500	L0709574-09	D-193-SE009(6.5-7.0)	1.42/50	10		10/01/07 14:55
59	IR.100107.150100	WG251317-01	Reference Sample		5	L0709617-06	10/01/07 15:01
60	IR.100107.150700	WG251475-01	Post Digestion Spike		5	L0709617-06	10/01/07 15:07
61	IR.100107.151300	WG251317-04	Matrix Spike	1.45/50	5	L0709617-07	10/01/07 15:13
62	IR.100107.151900	WG251317-05	Matrix Spike Duplica	1.45/50	5	L0709617-08	10/01/07 15:19
63	IR.100107.152500	L0709619-30	14418-C0009	1.39/50	1		10/01/07 15:25
64	IR.100107.153100	L0709619-31	14418-C0011	1.36/50	1		10/01/07 15:31
65	IR.100107.153700	L0709698-01	PC-17-SE(0-3)	1.42/50	1		10/01/07 15:37
66	IR.100107.154300	L0709698-02	PC-17-SE(3-6)	1.36/50	1		10/01/07 15:43
67	IR.100107.154900	WG251605-21	CCV		1		10/01/07 15:49
68	IR.100107.155500	WG251605-22	CCB		1		10/01/07 15:55
69	IR.100107.163600	L0709680-01	LINE 01 TOPSOIL	1.31/50	5		10/01/07 16:36
70	IR.100107.164300	WG251463-02	Method/Prep Blank	1/50	1		10/01/07 16:43
71	IR.100107.165000	WG251463-03	Laboratory Control Sample	1/50	1		10/01/07 16:50
72	IR.100107.165700	WG251463-01	Reference Sample		1	L0709711-23	10/01/07 16:57
73	IR.100107.170500	WG251463-04	Matrix Spike	1.35/50	1	L0709711-24	10/01/07 17:05
74	IR.100107.171200	WG251463-05	Matrix Spike Duplicate	1.35/50	1	L0709711-25	10/01/07 17:12

Approved: October 03, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071001.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21070

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	IR.100107.171900	L0709711-20	16043-C0006	1.35/50	1		10/01/07 17:19
76	IR.100107.172600	L0709711-21	16043-C0009	1.35/50	1		10/01/07 17:26
77	IR.100107.173300	WG251598-01	Post Digestion Spike		1		10/01/07 17:33
78	IR.100107.174000	WG251598-02	Serial Dilution		5		10/01/07 17:40
79	IR.100107.174800	WG251605-23	CCV		1		10/01/07 17:48
80	IR.100107.175400	WG251605-24	CCB		1		10/01/07 17:54
81	IR.100107.180000	L0709711-22	16043-C0010	1.35/50	1		10/01/07 18:00
82	IR.100107.180600	L0709711-26	16040-C0018	1.38/50	1		10/01/07 18:06
83	IR.100107.181200	L0709712-01	16045-C0002	1.35/50	1		10/01/07 18:12
84	IR.100107.181800	L0709712-02	16045-C0005	1.35/50	1		10/01/07 18:18
85	IR.100107.182400	L0709712-03	16045-C0006	1.37/50	1		10/01/07 18:24
86	IR.100107.183000	L0709712-04	16045-C0009	1.38/50	1		10/01/07 18:30
87	IR.100107.183600	L0709712-05	16045-C0010	1.35/50	1		10/01/07 18:36
88	IR.100107.184200	L0709712-06	16045-C0013	1.35/50	1		10/01/07 18:42
89	IR.100107.184800	L0709712-07	16045-C0014	1.39/50	1		10/01/07 18:48
90	IR.100107.185500	L0709712-08	16046-C0001	1.35/50	1		10/01/07 18:55
91	IR.100107.190100	WG251605-25	CCV		1		10/01/07 19:01
92	IR.100107.190700	WG251605-26	CCB		1		10/01/07 19:07
93	IR.100107.191300	L0709712-09	16046-C0002	1.38/50	1		10/01/07 19:13
94	IR.100107.191900	L0709712-10	16046-C0005	1.39/50	1		10/01/07 19:19
95	IR.100107.192500	L0709712-11	16046-C0006	1.35/50	1		10/01/07 19:25
96	IR.100107.193100	L0709712-12	16046-C0009	1.38/50	1		10/01/07 19:31
97	IR.100107.193700	L0709712-13	16046-C0010	1.35/50	1		10/01/07 19:37
98	IR.100107.194300	WG251467-02	Method/Prep Blank	1/50	1		10/01/07 19:43
99	IR.100107.194900	WG251467-03	Laboratory Control Sample	1/50	1		10/01/07 19:49
100	IR.100107.195500	WG251467-01	Reference Sample		1	L0709712-20	10/01/07 19:55
101	IR.100107.200200	WG251467-04	Matrix Spike	1.38/50	1	L0709712-21	10/01/07 20:02
102	IR.100107.200800	WG251467-05	Matrix Spike Duplicate	1.38/50	1	L0709712-22	10/01/07 20:08
103	IR.100107.201400	WG251605-27	CCV		1		10/01/07 20:14
104	IR.100107.202000	WG251605-28	CCB		1		10/01/07 20:20
105	IR.100107.202600	L0709713-01	16049-C0010	1.36/50	1		10/01/07 20:26
106	IR.100107.203200	WG251599-01	Post Digestion Spike		1		10/01/07 20:32
107	IR.100107.203800	WG251599-02	Serial Dilution		5		10/01/07 20:38
108	IR.100107.204400	L0709713-02	16049-C0014	1.36/50	1		10/01/07 20:44
109	IR.100107.205000	L0709713-03	16334-C0001	1.36/50	1		10/01/07 20:50
110	IR.100107.205600	L0709713-04	16334-C0002	1.46/50	1		10/01/07 20:56
111	IR.100107.210200	L0709713-05	16334-C0005	1.38/50	1		10/01/07 21:02

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Approved: October 03, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071001.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21070

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	IR.100107.210800	L0709713-06	16334-C0006	1.35/50	1		10/01/07 21:08
113	IR.100107.211400	L0709713-07	16334-C0009	1.41/50	1		10/01/07 21:14
114	IR.100107.212100	L0709713-08	16334-C0010	1.44/50	1		10/01/07 21:21
115	IR.100107.212700	WG251605-29	CCV		1		10/01/07 21:27
116	IR.100107.213300	WG251605-30	CCB		1		10/01/07 21:33
117	IR.100107.213900	L0709713-09	16334-C0013	1.4/50	1		10/01/07 21:39
118	IR.100107.214500	L0709713-10	16334-C0015	1.38/50	1		10/01/07 21:45
119	IR.100107.215100	L0709713-11	16340-C0001	1.38/50	1		10/01/07 21:51
120	IR.100107.215700	L0709713-12	16340-C0002	1.38/50	1		10/01/07 21:57
121	IR.100107.220300	L0709713-13	16340-C0005	1.38/50	1		10/01/07 22:03
122	IR.100107.220900	L0709713-14	16340-C0006	1.4/50	1		10/01/07 22:09
123	IR.100107.221500	L0709713-15	16340-C0009	1.49/50	1		10/01/07 22:15
124	IR.100107.222200	L0709713-16	16340-C0010	1.48/50	1		10/01/07 22:22
125	IR.100107.222800	L0709713-19	16341-C0001	1.39/50	1		10/01/07 22:28
126	IR.100107.223400	WG251458-02	Method/Prep Blank	1/50	1		10/01/07 22:34
127	IR.100107.224000	WG251605-31	CCV		1		10/01/07 22:40
128	IR.100107.224600	WG251605-32	CCB		1		10/01/07 22:46
129	IR.100107.225200	WG251458-03	Laboratory Control Sample	1/50	1		10/01/07 22:52
130	IR.100107.225800	WG251458-01	Reference Sample		1	L0709710-26	10/01/07 22:58
131	IR.100107.230400	WG251458-04	Matrix Spike	1.35/50	1	L0709710-27	10/01/07 23:04
132	IR.100107.231000	WG251458-05	Matrix Spike Duplicate	1.35/50	1	L0709710-28	10/01/07 23:10
133	IR.100107.231600	L0709710-16	16037-C0006	1.35/50	1		10/01/07 23:16
134	IR.100107.232200	L0709710-17	16037-C0009	1.35/50	1		10/01/07 23:22
135	IR.100107.232900	WG251600-01	Post Digestion Spike		1		10/01/07 23:29
136	IR.100107.233500	WG251600-02	Serial Dilution		5		10/01/07 23:35
137	IR.100107.234100	L0709710-18	16037-C0010	1.37/50	1		10/01/07 23:41
138	IR.100107.234700	L0709710-19	16037-C0014	1.35/50	1		10/01/07 23:47
139	IR.100107.235300	WG251605-33	CCV		1		10/01/07 23:53
140	IR.100107.235900	WG251605-34	CCB		1		10/01/07 23:59
141	IR.100207.000500	L0709710-20	16038-C0001	1.35/50	1		10/02/07 00:05
142	IR.100207.001100	L0709710-21	16038-C0002	1.35/50	1		10/02/07 00:11
143	IR.100207.001700	L0709710-22	16038-C0005	1.35/50	1		10/02/07 00:17
144	IR.100207.002300	L0709710-23	16038-C0006	1.38/50	1		10/02/07 00:23
145	IR.100207.002900	L0709710-24	16038-C0009	1.35/50	1		10/02/07 00:29
146	IR.100207.003500	L0709710-25	16038-C0010	1.35/50	1		10/02/07 00:35
147	IR.100207.004100	L0709710-29	16038-C0014	1.35/50	1		10/02/07 00:41
148	IR.100207.004700	L0709710-30	16038-C0017	1.37/50	1		10/02/07 00:47

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Approved: October 03, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071001.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21070

Calibration Std: STD21940 ICV/CCV Std: STD22072 Post Spike: STD21659
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
149	IR.100207.005400	L0709710-31	16038-C0018	1.35/50	1		10/02/07 00:54
150	IR.100207.010000	L0709710-32	16040-C0001	1.39/50	1		10/02/07 01:00
151	IR.100207.010600	WG251605-35	CCV		1		10/02/07 01:06
152	IR.100207.011200	WG251605-36	CCB		1		10/02/07 01:12
153	IR.100207.011800	L0709710-33	16040-C0002		1		10/02/07 01:18
154	IR.100207.012400	L0709710-34	16040-C0005		1		10/02/07 01:24
155	IR.100207.013000	L0709710-35	16040-C0006		1		10/02/07 01:30
156	IR.100207.013600	WG251552-01	Method/Prep Blank		1		10/02/07 01:36
157	IR.100207.014200	WG251552-02	Laboratory Control Sample		1		10/02/07 01:42
158	IR.100207.014800	WG251552-03	Laboratory Control Sample (2		1		10/02/07 01:48
159	IR.100207.015500	L0709483-01	OF 0061/TANK 3		1		10/02/07 01:55
160	IR.100207.020100	L0709483-02	OF 0061/TANK 4		1		10/02/07 02:01
161	IR.100207.020700	L0709501-13	MW-19S(OIL)		1		10/02/07 02:07
162	IR.100207.021300	L0709501-14	MW-23(OIL)		1		10/02/07 02:13
163	IR.100207.021900	WG251605-37	CCV		1		10/02/07 02:19
164	IR.100207.022500	WG251605-38	CCB		1		10/02/07 02:25
165	IR.100207.023100	WG251595-01	Post Digestion Spike		1		10/02/07 02:31
166	IR.100207.023800	WG251595-02	Serial Dilution		5		10/02/07 02:38
167	IR.100207.024400	WG251605-39	CCV		1		10/02/07 02:44
168	IR.100207.025000	WG251605-40	CCB		1		10/02/07 02:50

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Maren Berry

KEMRON Environmental Services
Data Checklist

Date: 28-SEP-2007
Analyst: KHR
Analyst: NA
Method: 6010B
Instrument: IRIS-ICP
Curve Workgroup: 251400
Runlog ID: 18486
Analytical Workgroups: 251257, 251211, 251254, 251419, 251420, 251421, 251422

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	555
Level 3	
Level 4	501,522,571,574,596,633,643,644,680
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	KHR
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
01-OCT-2007
Kim H. Rhoden

Secondary Reviewer:
02-OCT-2007
Maren Berry

Generated: OCT-02-2007 08:38:38

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: KHR
Analyst: NA
Method: 6010B
Instrument: IRIS-ICP
Curve Workgroup: 251605
Runlog ID: 18506
Analytical Workgroups: 251257, 251476, 251419, 251475, 251420, 251598, 251599, 251600

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	555
Level 3	663
Level 4	571,574,617,633,680,698,710,711,712,713
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	KHR
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
02-OCT-2007
Kim H. Rhoden

Secondary Reviewer:
03-OCT-2007
Maren Berry

Generated: OCT-03-2007 08:24:52

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6010B **AAB#:** WG251419

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0080-SO-092007	09/20/07	09/21/07	09/25/07	180	4.57	09/28/07	180	3.50	
0079-SO-092007	09/20/07	09/21/07	09/25/07	180	4.61	09/28/07	180	3.50	
0078-SO-092007	09/20/07	09/21/07	09/25/07	180	4.64	09/28/07	180	3.49	
0076-SO-092007	09/20/07	09/21/07	09/25/07	180	4.75	09/28/07	180	3.48	
0076-SO-092007/FD	09/20/07	09/21/07	09/25/07	180	4.75	09/28/07	180	3.49	
0081-SO-092007	09/20/07	09/21/07	09/25/07	180	4.57	09/28/07	180	3.51	
0077-SO-092007	09/20/07	09/21/07	09/25/07	180	4.67	09/28/07	180	3.49	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number: L0709522
Work Group: WG251419
Blank File ID: IR.092807.160700
Blank Sample ID: WG250929-02
Prep Date: 09/25/07 05:55
Instrument ID: IRIS-ICP
Analyzed Date: 09/28/07 16:07
Method: 6010B
Analyst: KHR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG250929-03	IR.092807.161300	09/28/07 16:13	01
0076-SO-092007	L0709522-01	IR.092807.172900	09/28/07 17:29	01
0076-SO-092007/FD	L0709522-02	IR.092807.173500	09/28/07 17:35	01
0077-SO-092007	L0709522-04	IR.092807.174100	09/28/07 17:41	01
0078-SO-092007	L0709522-05	IR.092807.174700	09/28/07 17:47	01
0079-SO-092007	L0709522-06	IR.092807.175300	09/28/07 17:53	01
0080-SO-092007	L0709522-07	IR.092807.175900	09/28/07 17:59	01
0081-SO-092007	L0709522-08	IR.092807.180500	09/28/07 18:05	01

KEMRON FORMS - Modified 01/31/2007
Version 1.5 PDF File ID: 889181
Report generated 10/01/2007 10:23

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/25/07 05:55 Sample ID: WG250929-02
Instrument ID: IRIS-ICP Run Date: 09/28/07 16:07 Prep Method: 3050B
File ID: IR.092807.160700 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG251419 Matrix: Soil Units: mg/kg
Contract #: Cal ID: IRIS-I-28-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Silver, Total	0.250	2.00	2.00	1	U
Barium, Total	0.100	0.500	0.500	1	U
Cadmium, Total	0.0500	0.500	0.500	1	U
Chromium, Total	0.120	1.00	1.00	1	U
Lead, Total	0.500	5.00	5.00	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 889182
Report generated 10/01/2007 10:23

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG250929-03
Instrument ID: IRIS-ICP Run Time: 16:13 Prep Method: 3050B
File ID: IR.092807.161300 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG251419 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: MI0058-81 Cal ID: IRIS-I-28-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Silver, Total	10.0	9.58	95.8	80 - 120	
Barium, Total	25.0	24.2	97.0	80 - 120	
Cadmium, Total	1.25	1.20	96.2	80 - 120	
Chromium, Total	12.5	11.7	93.7	80 - 120	
Lead, Total	12.5	11.7	93.3	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 889183
Report generated 10/01/2007 10:23

KEMRON Environmental Services

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L0709522 Cal ID:IRIS-ICP- Worknum:WG251419
Instrument ID:IRIS-ICP Contract #: Method:6010B
Parent ID:WG250929-01 File ID:IR.092807.161900 Dil:1 Matrix:SOLID
Sample ID:WG250929-04 MS File ID:IR.092807.162600 Dil:1 Units:mg/kg
Sample ID:WG250929-05 MSD File ID:IR.092807.163400 Dil:1 Percent Solid:84.6

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Barium	97.1	21.4	236	648	21.4	145	225	47.5	80 - 120	35	*#
Cadmium	0.402	1.07	1.37	90.4	1.07	1.36	89.4	0.785	80 - 120	35	
Chromium	19.7	10.7	26.8	66.1	10.7	30.0	96.4	11.4	80 - 120	35	*
Lead	79.0	10.7	86.3	67.5	10.7	95.3	152	9.97	80 - 120	35	*
Silver	0.970	8.56	9.51	99.7	8.56	9.79	103	2.92	80 - 120	35	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

KEMRON FORMS - Modified 09/25/2007 (wg_ms_msd_drywt)

Version 1.5 PDF File ID: 889184
Report generated 10/01/2007 10:23

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709522 Worknum: WG251419
Instrument ID: IRIS-ICP Method: 6010B
Sample ID: L0709555-01 File ID: IR.092807.164800 Dil: 1 Units: mg/kg
Serial Dilution ID: WG251419-02 File ID: IR.092807.170200 Dil: 5

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Barium	0.586		0.606		3.41	
Cadmium	0.00744	F	0.0126	F	69.4	E
Chromium	0.248		0.269	X	8.47	
Lead	0.476	X	0.532	X	11.8	E
Silver	0.0155	F	0	U	100	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 50 times the MDL
E = %D exceeds control limit of 10% and initial
sample result is greater than or equal to 50 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 889178
Report generated 10/01/2007 10:23

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709522 **Worknum:** WG251419
Instrument ID: IRIS-ICP **Method:** 6010B
Post Spike ID: WG251419-01 **File ID:** IR.092807.165500 **Dil:** 1 **Units:** mg/L
Sample ID: L0709555-01 **File ID:** IR.092807.164800 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
BARIUM	1.03		0.586		.5	101.4	85 - 115	
CADMIUM	0.0311		0.00744	F	.025	97.7	85 - 115	
CHROMIUM	0.452		0.248		.25	91.6	85 - 115	
LEAD	0.660		0.476		.25	92.4	85 - 115	
SILVER	0.210		0.0155	F	.2	98.3	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 889179
Report generated 10/01/2007 10:23

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Workgroup (AAB#):** WG251419

Analytical Method: 6010B **Instrument ID:** IRIS-ICP

ICAL Worknum: WG251400 **Initial Calibration Date:** 28-SEP-2007 08:48

Analyte	WG251400-01		WG251400-02		WG251400-03		WG251400-04		WG251400-05		WG251400-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Barium	0	.47087	.01	5.5491	.02	10.646	.5	241.81	1	486.94	2	985.22
Cadmium	0	.4028	NA	NA	.001	.49668	.025	2.0699	.05	3.8032	.1	7.2453
Chromium	0	.38699	.005	.99839	.01	1.6566	.25	30.192	.5	61.688	1	122.4
Lead	0	.07975	NA	NA	.01	.1521	.25	2.1574	.5	4.314	1	8.559
Silver	0	.05355	NA	NA	.008	.13669	.2	4.2055	.4	8.4133	.8	17.492

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 889187
Report generated 10/01/2007 10:23

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Workgroup (AAB#):** WG251419

Analytical Method: 6010B **Instrument ID:** IRIS-ICP

ICAL Worknum: WG251400 **Initial Calibration Date:** 28-SEP-2007 08:48

Analyte	R	Q
Barium	0.999965	
Cadmium	0.999561	
Chromium	0.999956	
Lead	0.999919	
Silver	0.999017	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 889187
Report generated 10/01/2007 10:23

KEMRON Environmental Services

INITIAL CALIBRATION BLANK (ICB)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-11
Instrument ID: IRIS-ICP Run Time: 09:23 Method: 6010B
File ID: IR.092807.092300 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	.00006	1	U
Barium	0.00200	0.0100	.00033	1	U
Cadmium	0.00100	0.0100	.00041	1	U
Chromium	0.00240	0.0200	.00051	1	U
Lead	0.0100	0.100	-.00112	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 10/02/2006
Version 1.5 PDF File ID: 889189
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-15
Instrument ID: IRIS-ICP Run Time: 09:47 Method: 6010B
File ID: IR.092807.094700 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.000130	1	U
Barium	0.00200	0.0100	0.000180	1	U
Cadmium	0.00100	0.0100	0.000350	1	U
Chromium	0.00240	0.0200	0.000490	1	U
Lead	0.0100	0.100	-0.00102	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 889192
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-26
Instrument ID: IRIS-ICP Run Time: 15:23 Method: 6010B
File ID: IR.092807.152300 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.00133	1	U
Barium	0.00200	0.0100	0.00378	1	F
Cadmium	0.00100	0.0100	0.000290	1	U
Chromium	0.00240	0.0200	0.000340	1	U
Lead	0.0100	0.100	-0.00172	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
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Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-28
Instrument ID: IRIS-ICP Run Time: 17:23 Method: 6010B
File ID: IR.092807.172300 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.000320	1	U
Barium	0.00200	0.0100	0.000610	1	U
Cadmium	0.00100	0.0100	0.000220	1	U
Chromium	0.00240	0.0200	0.000260	1	U
Lead	0.0100	0.100	-0.00234	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 889192
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-30
Instrument ID: IRIS-ICP Run Time: 18:36 Method: 6010B
File ID: IR.092807.183600 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.00288	1	U
Barium	0.00200	0.0100	0.000370	1	U
Cadmium	0.00100	0.0100	0.000530	1	U
Chromium	0.00240	0.0200	0.000230	1	U
Lead	0.0100	0.100	-0.00150	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 889192
Report generated 10/01/2007 10:23

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-10
Instrument ID: IRIS-ICP Run Time: 09:16 Method: 6010B
File ID: IR.092807.091600 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Silver		.4	0.401	100	90 - 110	
Barium		1	1.01	101	90 - 110	
Cadmium		.05	0.0506	101	90 - 110	
Chromium		.5	0.488	97.7	90 - 110	
Lead		.5	0.499	99.9	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 889188
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-14
Instrument ID: IRIS-ICP Run Time: 09:41 Method: 6010B
File ID: IR.092807.094100 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.396	mg/L	99.0	90 - 110		
Barium		1.00	0.999	mg/L	99.9	90 - 110		
Cadmium		0.0500	0.0505	mg/L	101	90 - 110		
Chromium		0.500	0.487	mg/L	97.3	90 - 110		
Lead		0.500	0.497	mg/L	99.5	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 889191
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-25
Instrument ID: IRIS-ICP Run Time: 15:17 Method: 6010B
File ID: IR.092807.151700 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.394	mg/L	98.5	90 - 110		
Barium		1.00	1.00	mg/L	100	90 - 110		
Cadmium		0.0500	0.0503	mg/L	101	90 - 110		
Chromium		0.500	0.481	mg/L	96.1	90 - 110		
Lead		0.500	0.490	mg/L	98.0	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 889191
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-27
Instrument ID: IRIS-ICP Run Time: 17:17 Method: 6010B
File ID: IR.092807.171700 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.392	mg/L	98.0	90 - 110		
Barium		1.00	0.989	mg/L	98.9	90 - 110		
Cadmium		0.0500	0.0503	mg/L	101	90 - 110		
Chromium		0.500	0.479	mg/L	95.8	90 - 110		
Lead		0.500	0.489	mg/L	97.8	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 889191
Report generated 10/01/2007 10:23

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/28/2007 Sample ID: WG251400-29
Instrument ID: IRIS-ICP Run Time: 18:30 Method: 6010B
File ID: IR.092807.183000 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG251419 Cal ID: IRIS-I - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.393	mg/L	98.2	90 - 110		
Barium		1.00	0.986	mg/L	98.6	90 - 110		
Cadmium		0.0500	0.0507	mg/L	101	90 - 110		
Chromium		0.500	0.488	mg/L	97.5	90 - 110		
Lead		0.500	0.506	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 889191
Report generated 10/01/2007 10:23

KEMRON ENVIRONMENTAL SERVICES
INTERFERENCE CHECK SAMPLES

Login number: L0709522 **Workgroup (AAB#):** WG251419
Instrument ID: IRIS-ICP **Method:** 6010B
Sol. A : WG251400-12 **File ID:** IR.092807.092900 **Units:** mg/L
Sol. AB : WG251400-13 **File ID:** IR.092807.093500

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Barium	NS	0.0000600	NS	0.250	0.241	96.4	
Cadmium	NS	0.00113	NS	0.500	0.467	93.4	
Chromium	NS	0.000170	NS	0.250	0.228	91.2	
Lead	NS	-0.000650	NS	0.500	0.455	91.0	
Silver	NS	0.000300	NS	0.500	0.468	93.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709522 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	-0.00000400	-0.00000300	0	0	0
ARSENIC	189.00	0.0000100	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0.00000100	0.0116	0	-0.00130	0
CALCIUM	373.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	324.70	0	0	0	0	0
IRON	271.40	0	0	0	0	0
LEAD	220.30	0.000429	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	-0.0743	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0.00830
POTASSIUM	766.40	0	0	0	-0.0346	0
SELENIUM	196.00	0.0000750	0.000198	0	0	0
SILICON	251.60	0	0	-0.0157	0	0
SILVER	328.00	0.00000100	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	0	0
THALLIUM	190.80	-0.0000300	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	0	0	0	0	0
VANADIUM	310.20	-0.0000340	0	0	0	0.00900
ZINC	213.80	0.0000200	0	0	0	0

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709522 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.00524	0	0	0
ANTIMONY	206.80	0	0	0.0183	0	0.00000500
ARSENIC	189.00	0	0	0.000280	0	-0.000110
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0.0000440	0.00160	0	0	0.0000250
CADMIUM	228.80	0.00000200	0.0000780	0	0	0.00000300
CALCIUM	373.70	0	0	0	0	0.00329
CHROMIUM	267.70	0	0	0	0	-0.0000100
COBALT	228.60	0	0	0.0000450	0	0.00000200
COPPER	324.70	0	0	-0.000150	0	0.00000900
IRON	271.40	0.00000600	0.0844	0	0	0
LEAD	220.30	0	-0.000300	-0.000220	0	0.0000170
LITHIUM	670.80	-0.0000500	0	0	0	0
MAGNESIUM	277.90	0	0	-0.0330	0	0.00135
MANGANESE	257.60	0	0	0	0	-0.0000340
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000400	0	0	0.00000700
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0.00541	0	0	-0.000668
SILICON	251.60	0	0	0	0	0
SILVER	328.00	0	0	-0.0000420	0	-0.00000800
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0.0000580	0	0	-0.000304
THALLIUM	190.80	0	0.00708	0.000190	0	-0.000150
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	-0.0000300	0	0.000300	0	0
VANADIUM	310.20	0	0	-0.000646	0	-0.00000600
ZINC	213.80	0	0.000312	0	0.000523	0.0000600

KEMRON FORMS - Modified 02/14/2006
Version 1.5 PDF File ID: 889186
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KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709522 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0.00180	0.0228	0
ANTIMONY	206.80	0	0	0	-0.00800	0
ARSENIC	189.00	0	0	0	0.00108	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	-0.0000500	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00000200	0	0	0
CALCIUM	373.70	0	0	0.00160	0	0
CHROMIUM	267.70	0	0	0.000510	0	0
COBALT	228.60	0	0	0	0	0
COPPER	324.70	0	0	0	0.000424	0
IRON	271.40	0	0	-0.000500	-0.00740	0
LEAD	220.30	0	0	0	-0.00300	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	0	0.00132	0.0452	0
MANGANESE	257.60	0	0.0000190	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0.00114	0.00147	0
SILICON	251.60	0	0	0	0.00800	0
SILVER	328.00	0	0	0.0000600	-0.000290	-0.0000370
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	-0.0000800	0
THALLIUM	190.80	0	0	0.00110	-0.00710	0
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	-0.00250	0	0	0	0
VANADIUM	310.20	0	-0.00000400	0	0	0
ZINC	213.80	0	0.0000180	0.000279	0	0.000186

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709522 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	-0.00200
ANTIMONY	206.80	-0.000100	0	0	0	0.000620
ARSENIC	189.00	0	-0.000420	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.0000710	0	0	0	0
CALCIUM	373.70	0.00195	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	-0.00386	0	0.00180
COPPER	324.70	0	0	0	0	-0.000950
IRON	271.40	-0.000613	0	0	-0.00410	0
LEAD	220.30	0.000489	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	0	0.0347	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0.0000180	0	0	0	0
SILICON	251.60	0	0	0	0	0.00665
SILVER	328.00	0	0	0	0	0.000978
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	0	0
THALLIUM	190.80	0	-0.000146	0	0	0.00180
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	0	0	0	0	0
VANADIUM	310.20	0	0	0	0	0
ZINC	213.80	0.00507	0	0	0	0

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709522 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	V	ZN
ALUMINUM	308.20	0.0299	0
ANTIMONY	206.80	0.0000700	0
ARSENIC	189.00	0	0
BARIUM	455.40	0	0
BERYLLIUM	313.00	0.00139	0
BORON	249.70	0	0
CADMIUM	228.80	0.0000850	0
CALCIUM	373.70	0	0
CHROMIUM	267.70	0.000100	0
COBALT	228.60	0	-0.00100
COPPER	324.70	0	-0.00203
IRON	271.40	-0.0775	0
LEAD	220.30	0	0
LITHIUM	670.80	0	0
MAGNESIUM	277.90	0.0180	0
MANGANESE	257.60	-0.0000750	0
MOLYBDENUM	202.03	-0.000247	0.00200
NICKEL	231.60	0	0
POTASSIUM	766.40	0	0
SELENIUM	196.00	0.000152	0.0265
SILICON	251.60	0	0
SILVER	328.00	-0.0211	-0.000144
SODIUM	589.50	0	0
STRONTIUM	215.20	0	0.000200
THALLIUM	190.80	0.00321	0
TIN	189.90	0	0
TITANIUM	334.90	0	0
VANADIUM	310.20	0	0
ZINC	213.80	0.000220	0

KEMRON Environmental Services

LINEAR RANGE (QUARTERLY)

Login Number: L0709522 **Date:** 09/28/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	630.0
Antimony	55.00	45.0
Arsenic	55.00	90.0
Barium	10.00	16.2
Beryllium	10.00	3.6
Boron	55.00	72.0
Cadmium	55.00	27.0
Calcium	10.00	450.0
Chromium	55.00	18.0
Cobalt	55.00	90.0
Copper	10.00	45.0
Iron	55.00	720.0
Lead	55.00	180.0
Lithium	10.00	9.0
Magnesium	55.00	900.0
Manganese	55.00	16.2
Molybdenum	55.00	27.0
Nickel	55.00	72.0
Potassium	10.00	180.0
Selenium	55.00	18.0
Silicon	55.00	45.0
Silver	10.00	7.2
Sodium	10.00	135.0
Strontium	55.00	27.0
Thallium	55.00	18.0
Tin	55.00	27.0
Titanium	10.00	22.5
Vanadium	10.00	90.0
Zinc	55.00	18.0

Comments:

2.3.2 Metals ICP-MS Data

2.3.2.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709522

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6020

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.

Serial Dilution/Post Digestion Spike: WG251540(6020) - 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: JYH

Approved: 09-OCT-07

LABORATORY REPORT

L0709522

10/11/07 11:01

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG 707/706/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0076-SO-092007	L0709522-01	6020	1	21-SEP-07
0076-SO-092007/FD	L0709522-02	6020	1	21-SEP-07
0077-SO-092007	L0709522-04	6020	1	21-SEP-07
0078-SO-092007	L0709522-05	6020	1	21-SEP-07
0079-SO-092007	L0709522-06	6020	1	21-SEP-07
0080-SO-092007	L0709522-07	6020	1	21-SEP-07
0081-SO-092007	L0709522-08	6020	1	21-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 19:54**
File ID: **EL.100107.195441**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	4.51		0.317	0.0793
Selenium, Total	7782-49-2	0.254		0.211	0.106

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 20:01**
File ID: **EL.100107.200116**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	5.55		0.341	0.0852
Selenium, Total	7782-49-2	0.273		0.227	0.114

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 20:07**
File ID: **EL.100107.200752**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	7.89		0.354	0.0886
Selenium, Total	7782-49-2	0.272		0.236	0.118

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 14:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 20:14**
File ID: **EL.100107.201426**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	14.8		0.345	0.0862
Selenium, Total	7782-49-2	0.318		0.230	0.115

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 20:20**
File ID: **EL.100107.202059**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	5.28		0.365	0.0911
Selenium, Total	7782-49-2		U	0.243	0.122

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number:	**L0709522-07**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**0080-SO-092007**	Prep Method:	**3051**	Prep Date:	**09/26/2007 09:30**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**10/01/2007 09:46**
Workgroup Number:	**WG251540**	Analyst:	**JYH**	Run Date:	**10/01/2007 20:27**
Collect Date:	**09/20/2007 16:10**	Dilution:	**1**	File ID:	**EL.100107.202732**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**85.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**7.06**		**0.339**	**0.0847**
Selenium, Total	**7782-49-2**	**0.548**		**0.226**	**0.113**

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251540**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **09/26/2007 09:30**
Cal Date: **10/01/2007 09:46**
Run Date: **10/01/2007 20:34**
File ID: **EL.100107.203405**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	5.49		0.342	0.0855
Selenium, Total	7782-49-2	0.794		0.228	0.114

2.3.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - CRI - Soil
QC Std 4 - CRI - Water
QC Std 5 - ICSA
QC Std 6 - ICSAB
QC Std 7 - CCV
QC Std 8 - CCB

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microwave Digestion Log

Analyst(s): VC
Date: 9/26/07 09:30
LCS: 05 MC SM
MS/MSD: 05 MC SM 21717
Witness:
HNO_3 Lot #: CoA 12526
HCl Lot #:
Digest Tube Lot #: CoA 12400
Earliest Sample Due Date: 10/5
Microwave # MW2

Box: 88

Digestion Work Group: WG 251084

ME407 Revision # ____ Method 3015-Water
ME406 Revision # 8 Method 3051-Soil-Oil

Relinquished By: VC
Digest Received By: [signature] Date: 9/26/07

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBS 34	0.500 g	200 mL	17420 g	17419 g	02	
2	LCS	0.520 g		17405 g	17404 g	03	
3	09.522-01 *	0.500		17457	17457		10/5
4	02	0.501		17436	17436		
5	04	0.520		17433	17433		
6	05	0.503		17442	17443		
7	06	0.530		17531	17531		
8	07 17	0.517		17407	17406		
9	08	0.502		17464	17465		
10	54201 * 17	0.516		17424	17423		10/5
11	02	0.500		17561	17560		
12	03	0.501		17444	17443		
13	04	0.524		17559	17557		
14	05	0.500		17582	17581	01	
15	06 MS	0.500		17409	17408	04	
16	07 MSD	0.500		17483	17483	05	
17	08	0.517		17462	17460		
18	55501	0.501		17474	17475		10/5
19	02	0.508		17471	17470		
20	03	0.514		17515	17513		
21	04	0.522		17650	17649		
22	05	0.520		17382	17382		
23	06	0.500		17435	17434		
24	07	0.515		17412	17411		
25							
26							
27					VC 9/26/07		
28							
29							
30							

Comments: * level 4

Primary Review: [signature] 9/26/07 Secondary Review: [signature] 9/26/07

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100107A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251281250879,250790,251578,251540

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.100107.092019	Blank	Blank		1		10/01/07 09:20
2	EL.100107.092649	WG251562-01	Calibration Point		1		10/01/07 09:26
3	EL.100107.093319	WG251562-02	Calibration Point		1		10/01/07 09:33
4	EL.100107.093951	WG251562-03	Calibration Point		1		10/01/07 09:39
5	EL.100107.094623	WG251562-04	Calibration Point		1		10/01/07 09:46
6	EL.100107.095255	WG251562-05	Initial Calibration Verification		1		10/01/07 09:52
7	EL.100107.095937	WG251562-06	Initial Calib Blank		1		10/01/07 09:59
8	EL.100107.100620	WG251562-07	CRQL Check Solid		1		10/01/07 10:06
9	EL.100107.101256	WG251562-08	CRQL Check Water		1		10/01/07 10:12
10	EL.100107.101931	WG251562-09	Interference Check		1		10/01/07 10:19
11	EL.100107.102605	WG251562-10	Interference Check		1		10/01/07 10:26
12	EL.100107.103238	WG251562-11	CCV		1		10/01/07 10:32
13	EL.100107.103920	WG251562-12	CCB		1		10/01/07 10:39
14	EL.100107.104600	WG251229-02	Method/Prep Blank	.5/200	1		10/01/07 10:46
15	EL.100107.105230	WG251229-03	Laboratory Control S	.5/200	1		10/01/07 10:52
16	EL.100107.105900	WG251229-01	Reference Sample		1	L0709111-18	10/01/07 10:59
17	EL.100107.110531	WG251229-04	Matrix Spike	.5/200	1		10/01/07 11:05
18	EL.100107.111202	WG251229-05	Matrix Spike Duplica	.5/200	1		10/01/07 11:12
19	EL.100107.111834	L0709633-01	CD-SS-BP303-001	.5/200	1		10/01/07 11:18
20	EL.100107.112505	WG251281-01	Post Digestion Spike		1	L0709633-01	10/01/07 11:25
21	EL.100107.113138	WG251281-02	Serial Dilution		5	L0709633-01	10/01/07 11:31
22	EL.100107.113810	L0709633-02	CD-SS-BP301-001	.5/200	1		10/01/07 11:38
23	EL.100107.114443	L0709633-03	CD-SS-BP305-001	.513/200	1		10/01/07 11:44
24	EL.100107.115116	WG251562-13	CCV		1		10/01/07 11:51
25	EL.100107.115757	WG251562-14	CCB		1		10/01/07 11:57
26	EL.100107.120444	L0709633-04	CD-SS-BP305-002		1		10/01/07 12:04
27	EL.100107.121118	L0709633-05	CD-SS-BP302-001	.504/200	1		10/01/07 12:11
28	EL.100107.121750	L0709633-06	CD-SS-BP305-003		1		10/01/07 12:17
29	EL.100107.122420	L0709633-07	CD-SS-BP304-001	.506/200	1		10/01/07 12:24
30	EL.100107.123051	L0709633-08	CD-SS-BP304-001-A	.5/200	1		10/01/07 12:30
31	EL.100107.123722	L0709633-09	CD-SS-BP304-003		1		10/01/07 12:37
32	EL.100107.124354	L0709633-10	CD-BF-BS001-001	.506/200	1		10/01/07 12:43
33	EL.100107.125026	L0709633-11	CD-TS-BS001-001	.5/200	1		10/01/07 12:50
34	EL.100107.125658	WG251562-15	CCV		1		10/01/07 12:56
35	EL.100107.130340	WG251562-16	CCB		1		10/01/07 13:03
36	EL.100107.131021	L0709474-01	T-20 PACKING RESIDUE	.5/200	100		10/01/07 13:10
37	EL.100107.131654	L0709461-01	DRL-Z-OUTLET 006	40/100	4	WG250839-01	10/01/07 13:16

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Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100107A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251281250879,250790,251578,251540

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.100107.132327	WG250839-05	Duplicate	40/100	4		10/01/07 13:23
39	EL.100107.133000	L0709520-02	AV-NCB-EB-1-092007	40/100	1		10/01/07 13:30
40	EL.100107.133633	L0709540-01	BGA018		1		10/01/07 13:36
41	EL.100107.134308	L0709540-02	BGA024		1		10/01/07 13:43
42	EL.100107.134941	L0709540-03	BGA025		1		10/01/07 13:49
43	EL.100107.135612	L0709540-04	BGA026		1		10/01/07 13:56
44	EL.100107.140752	L0709457-03	BGA032	.503/200	1		10/01/07 14:07
45	EL.100107.141425	L0709457-04	BGA034	.5/200	1		10/01/07 14:14
46	EL.100107.142057	WG251562-17	CCV		1		10/01/07 14:20
47	EL.100107.142739	WG251562-18	CCB		1		10/01/07 14:27
48	EL.100107.143422	L0709457-05	BGA035	.503/200	1		10/01/07 14:34
49	EL.100107.144101	L0709457-06	BGA036	.504/200	1		10/01/07 14:41
50	EL.100107.144734	L0709457-07	BGA037	.502/200	1		10/01/07 14:47
51	EL.100107.145408	WG251515-02	Method/Prep Blank	40/100	1		10/01/07 14:54
52	EL.100107.150042	WG251515-03	Laboratory Control S	40/100	1		10/01/07 15:00
53	EL.100107.150726	WG251515-01	Reference Sample		1	L0709665-05	10/01/07 15:07
54	EL.100107.151357	WG251515-04	Matrix Spike	40/100	1	L0709665-09	10/01/07 15:13
55	EL.100107.152029	WG251515-05	Matrix Spike Duplica	40/100	1	L0709665-10	10/01/07 15:20
56	EL.100107.152700	WG251515-01	Reference Sample		10	L0709665-05	10/01/07 15:27
57	EL.100107.153331	WG251515-04	Matrix Spike	40/100	10	L0709665-09	10/01/07 15:33
58	EL.100107.154004	WG251562-19	CCV		1		10/01/07 15:40
59	EL.100107.154645	WG251562-20	CCB		1		10/01/07 15:46
60	EL.100107.155326	WG251515-05	Matrix Spike Duplica	40/100	10	L0709665-10	10/01/07 15:53
61	EL.100107.155958	WG251264-01	Fluid Blank		1		10/01/07 15:59
62	EL.100107.160630	L0709681-01	LH18/24-SP650-6960/GRAB	40/100	10		10/01/07 16:06
63	EL.100107.161303	L0709681-02	LH18/24-SP650-6960/GRAB	40/100	10		10/01/07 16:13
64	EL.100107.161936	L0709681-03	LH18/24-SP650-6960/COMP	40/100	10		10/01/07 16:19
65	EL.100107.162609	L0709681-04	LH18/24-SP650-6960/COMP	40/100	10		10/01/07 16:26
66	EL.100107.163243	L0709665-01	NBS06-MW03A-07C	40/100	1		10/01/07 16:32
67	EL.100107.163917	WG251578-01	Post Digestion Spike		1	L0709665-01	10/01/07 16:39
68	EL.100107.165018	WG251578-02	Serial Dilution		5	L0709665-01	10/01/07 16:50
69	EL.100107.165651	WG251562-21	CCV		1		10/01/07 16:56
70	EL.100107.170333	WG251562-22	CCB		1		10/01/07 17:03
71	EL.100107.171014	L0709665-02	NBS06-MW03AP-07C	40/100	1		10/01/07 17:10
72	EL.100107.171645	L0709665-03	NBS06-MW04A-07C	40/100	1		10/01/07 17:16
73	EL.100107.172317	L0709665-06	NBS06-MW11AR-07C	40/100	1		10/01/07 17:23
74	EL.100107.172949	L0709665-07	NBS06-FB092507	40/100	1		10/01/07 17:29

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Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100107A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251281250879,250790,251578,251540

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	EL.100107.173622	L0709665-08	NBS06-MW02B-07C	40/100	1		10/01/07 17:36
76	EL.100107.174255	L0709644-02	AV-NCB-PE-ELE-40-C3-0	40/100	1	WG251432-01	10/01/07 17:42
77	EL.100107.174928	L0709644-03	AV-NCB-AS-ELE-4-09240	40/100	1		10/01/07 17:49
78	EL.100107.175602	L0709698-14	PC-SE-EB1	40/100	1		10/01/07 17:56
79	EL.100107.180236	L0709699-16	PC-SE-EB	40/100	1		10/01/07 18:02
80	EL.100107.180909	WG251562-23	CCV		1		10/01/07 18:09
81	EL.100107.181551	WG251562-24	CCB		1		10/01/07 18:15
82	EL.100107.182233	WG251086-02	Method/Prep Blank	.5/200	1		10/01/07 18:22
83	EL.100107.182908	WG251086-03	Laboratory Control S	.5/200	1		10/01/07 18:29
84	EL.100107.183543	WG251086-01	Reference Sample		1	L0709542-05	10/01/07 18:35
85	EL.100107.184216	WG251086-04	Matrix Spike	.5/200	1	L0709542-06	10/01/07 18:42
86	EL.100107.184849	WG251086-05	Matrix Spike Duplica	.5/200	1	L0709542-07	10/01/07 18:48
87	EL.100107.185521	L0709542-01	BGA033	.516/200	1	WG251356-01	10/01/07 18:55
88	EL.100107.190154	WG251540-01	Post Digestion Spike		1	L0709542-01	10/01/07 19:01
89	EL.100107.190827	WG251540-02	Serial Dilution		5	L0709542-01	10/01/07 19:08
90	EL.100107.191501	L0709542-02	BGA040	.5/200	1		10/01/07 19:15
91	EL.100107.192134	WG251562-25	CCV		1		10/01/07 19:21
92	EL.100107.192816	WG251562-26	CCB		1		10/01/07 19:28
93	EL.100107.193457	L0709542-03	BGA041	.501/200	1		10/01/07 19:34
94	EL.100107.194132	L0709542-04	BGA042	.521/200	1		10/01/07 19:41
95	EL.100107.194806	L0709542-08	BGA044	.517/200	1		10/01/07 19:48
96	EL.100107.195441	L0709522-01	0076-SO-092007	.5/200	1	WG250937-01	10/01/07 19:54
97	EL.100107.200116	L0709522-02	0076-SO-092007/FD	.501/200	1		10/01/07 20:01
98	EL.100107.200752	L0709522-04	0077-SO-092007	.5/200	1		10/01/07 20:07
99	EL.100107.201426	L0709522-05	0078-SO-092007	.503/200	1		10/01/07 20:14
100	EL.100107.202059	L0709522-06	0079-SO-092007	.5/200	1	WG251583-01	10/01/07 20:20
101	EL.100107.202732	L0709522-07	0080-SO-092007	.517/200	1		10/01/07 20:27
102	EL.100107.203405	L0709522-08	0081-SO-092007	.502/200	1		10/01/07 20:34
103	EL.100107.204038	WG251562-27	CCV		1		10/01/07 20:40
104	EL.100107.204719	WG251562-28	CCB		1		10/01/07 20:47
105	EL.100107.205401	L0709555-01	ORSED 8.6	.501/200	1		10/01/07 20:54
106	EL.100107.210035	L0709555-02	ORSED 8.0	.505/200	1		10/01/07 21:00
107	EL.100107.210709	L0709555-03	ORSED 6.8	.514/200	1		10/01/07 21:07
108	EL.100107.211344	L0709555-04	ORSED 6.2	.522/200	1		10/01/07 21:13
109	EL.100107.212019	L0709555-05	ORSED 3.8	.5/200	1		10/01/07 21:20
110	EL.100107.212654	L0709555-06	ORSED 2.5	.5/200	1		10/01/07 21:26
111	EL.100107.213330	L0709555-07	ORSED 4.4	.515/200	1		10/01/07 21:33

Page: 3

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100107A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251281250879,250790,251578,251540

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	EL.100107.214006	L0709542-03	BGA041	.501/200	100		10/01/07 21:40
113	EL.100107.214640	WG251578-03	Post Digestion Spike		10	L0709681-01	10/01/07 21:46
114	EL.100107.215313	WG251578-04	Serial Dilution		50	L0709681-01	10/01/07 21:53
115	EL.100107.215946	WG251562-29	CCV		1		10/01/07 21:59
116	EL.100107.220627	WG251562-30	CCB		1		10/01/07 22:06
117	EL.100107.221309	L0709474-01	T-20 PACKING RESIDUE		100		10/01/07 22:13
118	EL.100107.221942	WG251562-31	CCV		1		10/01/07 22:19
119	EL.100107.222623	WG251562-32	CCB		1		10/01/07 22:26

Approved: October 02, 2007

Maren Berry

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 251562
Runlog ID: 18499
Analytical Workgroups: 251281,250879,250790,251578,251540

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	
Case Narrative	633,461,520,457,474,644,665,681,698,699
	522,542,555
Client Forms	X
Level X	555
Level 3	681
Level 4	633,520,457,644,665,698,699
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
02-OCT-2007

Generated: OCT-02-2007 16:50:31

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 **AAB#:** WG251540

Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0079-SO-092007	09/20/07	09/21/07	09/26/07	180	5.76	10/01/07	180	5.45	
0076-SO-092007/FD	09/20/07	09/21/07	09/26/07	180	5.90	10/01/07	180	5.44	
0080-SO-092007	09/20/07	09/21/07	09/26/07	180	5.72	10/01/07	180	5.46	
0081-SO-092007	09/20/07	09/21/07	09/26/07	180	5.72	10/01/07	180	5.46	
0076-SO-092007	09/20/07	09/21/07	09/26/07	180	5.90	10/01/07	180	5.43	
0077-SO-092007	09/20/07	09/21/07	09/26/07	180	5.82	10/01/07	180	5.44	
0078-SO-092007	09/20/07	09/21/07	09/26/07	180	5.79	10/01/07	180	5.45	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number: L0709522
Work Group: WG251540
Blank File ID: EL.100107.182233
Blank Sample ID: WG251086-02
Prep Date: 09/26/07 09:30
Instrument ID: ELAN-ICP
Analyzed Date: 10/01/07 18:22
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251086-03	EL.100107.182908	10/01/07 18:29	01
0076-SO-092007	L0709522-01	EL.100107.195441	10/01/07 19:54	01
0076-SO-092007/FD	L0709522-02	EL.100107.200116	10/01/07 20:01	01
0077-SO-092007	L0709522-04	EL.100107.200752	10/01/07 20:07	01
0078-SO-092007	L0709522-05	EL.100107.201426	10/01/07 20:14	01
0079-SO-092007	L0709522-06	EL.100107.202059	10/01/07 20:20	01
0080-SO-092007	L0709522-07	EL.100107.202732	10/01/07 20:27	01
0081-SO-092007	L0709522-08	EL.100107.203405	10/01/07 20:34	01

KEMRON FORMS - Modified 01/31/2007
Version 1.5 PDF File ID: 890629
Report generated 10/02/2007 09:30

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/26/07 09:30 Sample ID: WG251086-02
Instrument ID: ELAN-ICP Run Date: 10/01/07 18:22 Prep Method: 3051
File ID: EL.100107.182233 Analyst: JYH Method: 6020
Workgroup (AAB#): WG251540 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-01-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.0750	0.300	0.300	1	U
Selenium, Total	0.100	0.200	0.200	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 890630
Report generated 10/02/2007 09:30

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251086-03
Instrument ID: ELAN-ICP Run Time: 18:29 Prep Method: 3051
File ID: EL.100107.182908 Analyst: JYH Method: 6020
Workgroup (AAB#): WG251540 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD21680 Cal ID: ELAN-I-01-OCT-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	10.0	10.3	103	80 - 120	
Selenium, Total	10.0	10.3	103	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 890631
Report generated 10/02/2007 09:30

KEMRON Environmental Services

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L0709522 Cal ID: ELAN-ICP- Worknum: WG251540
Instrument ID: ELAN-ICP Contract #: Method: 6020
Parent ID: WG251086-01 File ID: EL.100107.183543 Dil: 1 Matrix: SOLID
Sample ID: WG251086-04 MS File ID: EL.100107.184216 Dil: 1 Units: mg/kg
Sample ID: WG251086-05 MSD File ID: EL.100107.184849 Dil: 1 Percent Solid: 72.8

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	0.262	13.7	11.3	80.5	13.7	11.4	80.9	0.471	80 - 120	35	
Selenium, Total	ND	13.7	10.5	76.8	13.7	10.2	74.5	3.00	80 - 120	35	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

KEMRON FORMS - Modified 09/25/2007 (wg_ms_msd_drywt)

Version 1.5 PDF File ID: 890632
Report generated 10/02/2007 09:30

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709522 Worknum: WG251540
Instrument ID: ELAN-ICP Method: 6020
Sample ID: L0709542-01 File ID: EL.100107.185521 Dil: 1 Units: ug/kg
Serial Dilution ID: WG251540-02 File ID: EL.100107.190827 Dil: 5

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Arsenic	0.968	X	1.51	F	56.0	E
Selenium	0.458	F	0	U	100	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 100 times the MDL
E = %D exceeds control limit of 10% and initial
sample result is greater than or equal to 100 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 890626
Report generated 10/02/2007 09:30

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709522 **Worknum:** WG251540
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG251540-01 **File ID:** EL.100107.190154 **Dil:** 1 **Units:** ug/L
Sample ID: L0709542-01 **File ID:** EL.100107.185521 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	48.1		0.968		50	94.2	75 - 125	
SELENIUM	43.3		0.458	F	50	85.7	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 890627
Report generated 10/02/2007 09:30

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522 **Workgroup (AAB#):** WG251540

Analytical Method: 6020 **Instrument ID:** ELAN-ICP

ICAL Worknum: WG251562 **Initial Calibration Date:** 01-OCT-2007 09:46

Analyte	WG251562-01		WG251562-02		WG251562-03		WG251562-04			
	STD	INT	STD	INT	STD	INT	STD	INT	R	Q
Arsenic	0	-535.37	.4	467	50	121066.784	100	242046.477	0.999999	
Selenium	0	6.655	.4	96.291	50	9769.078	100	19640.969	0.999983	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 890635
Report generated 10/02/2007 09:29

KEMRON Environmental Services

INITIAL CALIBRATION BLANK (ICB)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-06
Instrument ID: ELAN-ICP Run Time: 09:59 Method: 6020
File ID: EL.100107.095937 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	.0264	1	U
Selenium	0.250	0.500	.0229	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 10/02/2006
Version 1.5 PDF File ID: 890637
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-12
Instrument ID: ELAN-ICP Run Time: 10:39 Method: 6020
File ID: EL.100107.103920 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0157	1	U
Selenium	0.250	0.500	-0.0154	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 890640
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-24
Instrument ID: ELAN-ICP Run Time: 18:15 Method: 6020
File ID: EL.100107.181551 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0156	1	U
Selenium	0.250	0.500	0.0392	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 890640
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-26
Instrument ID: ELAN-ICP Run Time: 19:28 Method: 6020
File ID: EL.100107.192816 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0529	1	U
Selenium	0.250	0.500	0.0648	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 890640
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-28
Instrument ID: ELAN-ICP Run Time: 20:47 Method: 6020
File ID: EL.100107.204719 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.00660	1	U
Selenium	0.250	0.500	-0.0342	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 890640
Report generated 10/02/2007 09:29

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-05
Instrument ID: ELAN-ICP Run Time: 09:52 Method: 6020
File ID: EL.100107.095255 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	49.3	98.6	90 - 110	
Selenium		50	50.6	101	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 890636
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-11
Instrument ID: ELAN-ICP Run Time: 10:32 Method: 6020
File ID: EL.100107.103238 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	49.6	ug/L	99.2	90 - 110		
Selenium		50.0	52.0	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 890639
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-23
Instrument ID: ELAN-ICP Run Time: 18:09 Method: 6020
File ID: EL.100107.180909 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	48.8	ug/L	97.7	90 - 110		
Selenium		50.0	49.4	ug/L	98.8	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 890639
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-25
Instrument ID: ELAN-ICP Run Time: 19:21 Method: 6020
File ID: EL.100107.192134 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	47.7	ug/L	95.4	90 - 110		
Selenium		50.0	48.0	ug/L	96.0	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 890639
Report generated 10/02/2007 09:29

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 10/01/2007 Sample ID: WG251562-27
Instrument ID: ELAN-ICP Run Time: 20:40 Method: 6020
File ID: EL.100107.204038 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251540 Cal ID: ELAN-I - 01-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	48.2	ug/L	96.3	90 - 110		
Selenium		50.0	48.9	ug/L	97.8	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 890639
Report generated 10/02/2007 09:29

KEMRON ENVIRONMENTAL SERVICES
INTERFERENCE CHECK SAMPLES

Login number: L0709522 **Workgroup (AAB#):** WG251540
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG251562-09 **File ID:** EL.100107.101931 **Units:** ug/L
Sol. AB : WG251562-10 **File ID:** EL.100107.102605

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	-0.00640	NS	100	104	104	
Selenium	NS	-0.150	NS	100	106	106	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

KEMRON Environmental Services

LINEAR RANGE (QUARTERLY)

Login Number: L0709522 **Date:** 09/07/2007

Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:

2.3.3 Metals CVAA Data (Mercury)

2.3.3.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709522

METHOD

Preparation: SW-846 7471A

Analysis: SW-846 7471A

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.

Serial Dilution/Post Digestion Spike: WG251018(7471A) - 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

Approved: 09-OCT-07

LABORATORY REPORT

L0709522

10/11/07 11:01

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG 707/706/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0076-SO-092007	L0709522-01	7471A	1	21-SEP-07
0076-SO-092007/FD	L0709522-02	7471A	1	21-SEP-07
0077-SO-092007	L0709522-04	7471A	1	21-SEP-07
0078-SO-092007	L0709522-05	7471A	1	21-SEP-07
0079-SO-092007	L0709522-06	7471A	1	21-SEP-07
0080-SO-092007	L0709522-07	7471A	1	21-SEP-07
0081-SO-092007	L0709522-08	7471A	1	21-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-01**
Client ID: **0076-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:26**
File ID: **HY.092607.152614**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.259	0.0104

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-02**
Client ID: **0076-SO-092007/FD**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:31**
File ID: **HY.092607.153139**
Percent Solid: **87.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.275	0.0110

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-04**
Client ID: **0077-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:35**
File ID: **HY.092607.153507**
Percent Solid: **84.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.290	0.0116

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-05**
Client ID: **0078-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 14:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:37**
File ID: **HY.092607.153714**
Percent Solid: **86.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.281	0.0112

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-06**
Client ID: **0079-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 15:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:38**
File ID: **HY.092607.153851**
Percent Solid: **82.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.287	0.0115

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number:	L0709522-07	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0080-SO-092007	Prep Method:	METHOD	Prep Date:	09/25/2007 09:40
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/26/2007 15:05
Workgroup Number:	WG251018	Analyst:	SLP	Run Date:	09/26/2007 15:44
Collect Date:	09/20/2007 16:10	Dilution:	1	File ID:	HY.092607.154425
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.275	0.0110

U Not detected at or above the reporting limit

Report Number: **L0709522**
Report Date : **October 11, 2007**

Sample Number: **L0709522-08**
Client ID: **0081-SO-092007**
Matrix: **Soil**
Workgroup Number: **WG251018**
Collect Date: **09/20/2007 16:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/25/2007 09:40**
Cal Date: **09/26/2007 15:05**
Run Date: **09/26/2007 15:46**
File ID: **HY.092607.154612**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.275	0.0110

U Not detected at or above the reporting limit

2.3.3.2 QC Summary Data

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

Mercury Digestion Log

Analyst(s): Ed, RM
Date: 09-25-07
LCS: 4ml STD 22061
MS/MSD: 4ml STD22061
Witness: VO
H_2SO_4 Lot #: MA
$K2S_2O_8$ Lot #: MA
$KMNO_4$ Lot #: KT12067
HNO_3 Lot #: COA12526
Digest Tube Lot #: COA12400
~~Aqua Regia~~: HCl : COA12527
Earliest Sample Due Date: 10-01-07
ICV / CCV: STD 22065
Stds: 0, 0.2, 1, 2, 5, 10: STD22063 22068

Box: 82

Digestion Work Group: WG 250937

ME404 Revision # ____ - Method 7470A-Water
ME405 Revision # 8 - Method 7471A-Soil

Hot Block Temperature at start: 95°C @ 0940

Hot Block Temperature at end: 97.5°C @ 1010

Relinquished By: ____
Digest Received By: ____ Date: 9/25/07

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBS	0.600g	40ml	-02	
2	LCS	"	"	-03	10-05-07
3	09-522-01RS	0.613	"	Denied 4 -01 09-25-07	~~10-05~~ ~~10-07~~
4	-01MS	"	"	-04	"
5	-01MSD	"	"	-05	"
6	-02	0.620	"	"	"
7	-04	0.610	"	"	"
8	-05	0.617	"	"	"
9	-06	0.636	"	"	"
10	-07	0.638	"	"	"
11	-08	0.625	"	"	"
12	09-555-01	0.643	"	"	10-05-07
13	-02	0.621	"	"	"
14	-03	0.637	"	"	"
15	-04	0.616	"	"	"
16	-05	0.646	"	"	"
17	-06	0.605	"	"	"
18	-07	0.616	"	"	"
19	09-571-01	0.640	"	Denied 4	10-01-07
20	-02	0.610	"	"	"
21	-03	0.636	"	"	"
22	-04	0.633	"	"	"
23		Rel 9/25/07			
24					
~~25~~					

Comments: ____

Primary Review: 9/25/07 Secondary Review: 9/25/07

KEMRON Environmental Services

Instrument Run Log

Instrument: HYDRA Dataset: 092607F.PRN
Analyst1: SLP Analyst2: N/A
Method: 7471A SOP: 405 Rev: 8
Maintenance Log ID: 21014

Calibration Std: STD22068 ICV/CCV Std: STD22069 Post Spike: STD22068
ICSA: N/A ICSAB: N/A

Workgroups: 251018

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.092607.145708	WG251170-01	Calibration Point		1		09/26/07 14:57
2	HY.092607.145847	WG251170-02	Calibration Point		1		09/26/07 14:58
3	HY.092607.150024	WG251170-03	Calibration Point		1		09/26/07 15:00
4	HY.092607.150215	WG251170-04	Calibration Point		1		09/26/07 15:02
5	HY.092607.150405	WG251170-05	Calibration Point		1		09/26/07 15:04
6	HY.092607.150545	WG251170-06	Calibration Point		1		09/26/07 15:05
7	HY.092607.150755	WG251170-07	Initial Calibration Verification		1		09/26/07 15:07
8	HY.092607.150933	WG251170-08	Initial Calib Blank		1		09/26/07 15:09
9	HY.092607.151110	WG251170-09	CCV		1		09/26/07 15:11
10	HY.092607.151257	WG251170-10	CCB		1		09/26/07 15:12
11	HY.092607.152255	WG250937-02	Method/Prep Blank	.6/40	1		09/26/07 15:22
12	HY.092607.152433	WG250937-03	Laboratory Control S	.6/40	1		09/26/07 15:24
13	HY.092607.152614	WG250937-01	Reference Sample		1	L0709522-01	09/26/07 15:26
14	HY.092607.152813	WG250937-04	Matrix Spike	.613/40	1		09/26/07 15:28
15	HY.092607.152959	WG250937-05	Matrix Spike Duplica	.613/40	1		09/26/07 15:29
16	HY.092607.153139	L0709522-02	0076-SO-092007/FD	.62/40	1		09/26/07 15:31
17	HY.092607.153327	WG251018-01	Post Digestion Spike		1	L0709522-02	09/26/07 15:33
18	HY.092607.153507	L0709522-04	0077-SO-092007	.61/40	1		09/26/07 15:35
19	HY.092607.153714	L0709522-05	0078-SO-092007	.617/40	1		09/26/07 15:37
20	HY.092607.153851	L0709522-06	0079-SO-092007	.636/40	1		09/26/07 15:38
21	HY.092607.154030	WG251170-11	CCV		1		09/26/07 15:40
22	HY.092607.154232	WG251170-12	CCB		1		09/26/07 15:42
23	HY.092607.154425	L0709522-07	0080-SO-092007	.638/40	1		09/26/07 15:44
24	HY.092607.154612	L0709522-08	0081-SO-092007	.625/40	1		09/26/07 15:46
25	HY.092607.154823	L0709555-01	ORSED 8.6	.643/40	1		09/26/07 15:48
26	HY.092607.155029	WG251018-02	Post Digestion Spike		1	L0709555-01	09/26/07 15:50
27	HY.092607.155205	L0709555-02	ORSED 8.0	.621/40	1		09/26/07 15:52
28	HY.092607.155356	L0709555-03	ORSED 6.8	.637/40	1		09/26/07 15:53
29	HY.092607.155533	L0709555-04	ORSED 6.2	.616/40	1		09/26/07 15:55
30	HY.092607.155713	L0709555-05	ORSED 3.8	.646/40	1		09/26/07 15:57
31	HY.092607.155906	L0709555-06	ORSED 2.5	.605/40	1		09/26/07 15:59
32	HY.092607.160053	L0709555-07	ORSED 4.4	.616/40	1		09/26/07 16:00
33	HY.092607.160230	WG251170-13	CCV		1		09/26/07 16:02
34	HY.092607.160407	WG251170-14	CCB		1		09/26/07 16:04
35	HY.092607.160630	L0709571-01	AV-NCB-PE-AC1-32-C2-0	.64/40	1		09/26/07 16:06
36	HY.092607.160822	WG251018-03	Post Digestion Spike		1	L0709571-01	09/26/07 16:08
37	HY.092607.161000	L0709571-02	AV-NCB-AS-AC1-3-09200		1		09/26/07 16:10

Approved:

KEMRON Environmental Services

Instrument Run Log

Instrument: HYDRA Dataset: 092607F.PRN
Analyst1: SLP Analyst2: N/A
Method: 7471A SOP: 405 Rev: 8
Maintenance Log ID: 21014

Calibration Std: STD22068 ICV/CCV Std: STD22069 Post Spike: STD22068
ICSA: N/A ICSAB: N/A

Workgroups: 251018

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	HY.092607.161213	L0709571-03	AV-NCB-PE-UNK-32-C1-0	.636/40	1		09/26/07 16:12
39	HY.092607.161422	L0709571-04	AV-NCB-AS-UNK-90-0920	.633/40	1	WG250929-01	09/26/07 16:14
40	HY.092607.161559	WG251170-15	CCV		1		09/26/07 16:15
41	HY.092607.161746	WG251170-16	CCB		1		09/26/07 16:17
42	HY.092607.162520	L0709571-02	AV-NCB-AS-AC1-3-09200	.61/40	10		09/26/07 16:25
43	HY.092607.162718	WG251018-04	Serial Dilution		50	L0709571-02	09/26/07 16:27
44	HY.092607.162906	WG251170-17	CCV		1		09/26/07 16:29
45	HY.092607.163043	WG251170-18	CCB		1		09/26/07 16:30

Approved:

KEMRON Environmental Services
Data Checklist

Date: 26-SEP-2007
Analyst: SLP
Analyst: NA
Method: 7471A
Instrument: HYDRA
Curve Workgroup: 251170
Runlog ID: 18446
Analytical Workgroups: 251018

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	522, 555, 571
Client Forms	X
Level X	555
Level 3	
Level 4	522, 571
Check for compliance with method and project specific requirements	
Check the completeness of reported information	
Check the information for the report narrative	
Primary Reviewer	SLP
Secondary Reviewer	
Comments	

Primary Reviewer: Secondary Reviewer:
26-SEP-2007

Generated: SEP-26-2007 16:55:12

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7471A **AAB#:** WG251018
Login Number: L0709522

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0081-SO-092007	09/20/07	09/21/07	09/25/07	28	4.72	09/26/07	28	1.25	
0079-SO-092007	09/20/07	09/21/07	09/25/07	28	4.77	09/26/07	28	1.25	
0076-SO-092007	09/20/07	09/21/07	09/25/07	28	4.91	09/26/07	28	1.24	
0078-SO-092007	09/20/07	09/21/07	09/25/07	28	4.80	09/26/07	28	1.25	
0080-SO-092007	09/20/07	09/21/07	09/25/07	28	4.73	09/26/07	28	1.25	
0077-SO-092007	09/20/07	09/21/07	09/25/07	28	4.82	09/26/07	28	1.25	
0076-SO-092007/FD	09/20/07	09/21/07	09/25/07	28	4.91	09/26/07	28	1.24	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number: L0709522
Work Group: WG251018
Blank File ID: HY.092607.152255
Blank Sample ID: WG250937-02
Prep Date: 09/25/07 09:40
Instrument ID: HYDRA
Analyzed Date: 09/26/07 15:22
Method: 7471A
Analyst: SLP

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG250937-03	HY.092607.152433	09/26/07 15:24	01
0076-SO-092007	L0709522-01	HY.092607.152614	09/26/07 15:26	01
0076-SO-092007/FD	L0709522-02	HY.092607.153139	09/26/07 15:31	01
0077-SO-092007	L0709522-04	HY.092607.153507	09/26/07 15:35	01
0078-SO-092007	L0709522-05	HY.092607.153714	09/26/07 15:37	01
0079-SO-092007	L0709522-06	HY.092607.153851	09/26/07 15:38	01
0080-SO-092007	L0709522-07	HY.092607.154425	09/26/07 15:44	01
0081-SO-092007	L0709522-08	HY.092607.154612	09/26/07 15:46	01

KEMRON FORMS - Modified 01/31/2007
Version 1.5 PDF File ID: 885763
Report generated 09/26/2007 16:45

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709522 Prep Date: 09/25/07 09:40 Sample ID: WG250937-02
Instrument ID: HYDRA Run Date: 09/26/07 15:22 Prep Method: METHOD
File ID: HY.092607.152255 Analyst: SLP Method: 7471A
Workgroup (AAB#): WG251018 Matrix: Soil Units: mg/kg
Contract #: Cal ID: HYDRA-26-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0100	0.250	0.250	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 885764
Report generated 09/26/2007 16:45

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG250937-03
Instrument ID: HYDRA Run Time: 15:24 Prep Method: METHOD
File ID: HY.092607.152433 Analyst: SLP Method: 7471A
Workgroup (AAB#): WG251018 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: MI-7470-01 Cal ID: HYDRA-26-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Total	0.267	0.285	107	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 885765
Report generated 09/26/2007 16:45

KEMRON Environmental Services

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L0709522 Cal ID: HYDRA- Worknum: WG251018
Instrument ID: HYDRA Contract #: Method: 7471A
Parent ID: WG250937-01 File ID: HY.092607.152614 Dil: 1 Matrix: SOLID
Sample ID: WG250937-04 MS File ID: HY.092607.152813 Dil: 1 Units: mg/kg
Sample ID: WG250937-05 MSD File ID: HY.092607.152959 Dil: 1 Percent Solid: 94.6

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury, Total	0.0619	0.276	0.346	103	0.276	0.349	104	0.794	75 - 125	25	

***** FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

KEMRON FORMS - Modified 09/25/2007 (wg_ms_msd_drywt)

Version 1.5 PDF File ID: 885766
Report generated 10/09/2007 12:24

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709522 Worknum: WG251018
Instrument ID: HYDRA Method: 7471A
Sample ID: L0709571-02 File ID: HY.092607.162520 Dil: 10 Units: ug/kg
Serial Dilution ID: WG251018-04 File ID: HY.092607.162718 Dil: 50

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Mercury	68.8		46.6	F	32.3	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 25 times the MDL
E = %D exceeds control limit of 10% and initial
sample result is greater than or equal to 25 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 885860
Report generated 09/26/2007 19:39

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709522 **Worknum:** WG251018
Instrument ID: HYDRA **Method:** 7471A
Post Spike ID: WG251018-01 **File ID:** HY.092607.153327 **Dil:** 1 **Units:** ug/L
Sample ID: L0709522-02 **File ID:** HY.092607.153139 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	1.56		0.534	F	1	107.9	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 885761
Report generated 09/26/2007 16:45

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522
Analytical Method: 7471A
ICAL Worknum: WG251170

Workgroup (AAB#): WG251018
Instrument ID: HYDRA
Initial Calibration Date: 09/26/2007 15:05

Analyte	WG251170-01		WG251170-02		WG251170-03		WG251170-04		WG251170-05		WG251170-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	-805	0.200	20507	1.00	73275	2.00	148173	5.00	354106	10.0	703019

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 02/02/2007
Version 1.5 PDF File ID: 885767
Report generated 09/26/2007 16:45

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709522
Analytical Method: 7471A
ICAL Worknum: WG251170

Workgroup (AAB#): WG251018
Instrument ID: HYDRA
Initial Calibration Date: 09/26/2007 15:05

Analyte	R	Q
Mercury	0.9999	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 02/02/2007
Version 1.5 PDF File ID: 885767
Report generated 09/26/2007 16:45

KEMRON Environmental Services

INITIAL CALIBRATION BLANK (ICB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-08
Instrument ID: HYDRA Run Time: 15:09 Method: 7471A
File ID: HY.092607.150933 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-.066	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 10/02/2006
Version 1.5 PDF File ID: 885769
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-10
Instrument ID: HYDRA Run Time: 15:12 Method: 7471A
File ID: HY.092607.151257 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.00800	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 885771
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-12
Instrument ID: HYDRA Run Time: 15:42 Method: 7471A
File ID: HY.092607.154232 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0250	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 885771
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-14
Instrument ID: HYDRA Run Time: 16:04 Method: 7471A
File ID: HY.092607.160407 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0880	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 885771
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-16
Instrument ID: HYDRA Run Time: 16:17 Method: 7471A
File ID: HY.092607.161746 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	0.00400	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 885771
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-18
Instrument ID: HYDRA Run Time: 16:30 Method: 7471A
File ID: HY.092607.163043 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0900	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 885771
Report generated 09/26/2007 16:45

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-07
Instrument ID: HYDRA Run Time: 15:07 Method: 7471A
File ID: HY.092607.150755 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.04	102	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 885768
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-09
Instrument ID: HYDRA Run Time: 15:11 Method: 7471A
File ID: HY.092607.151110 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00209	mg/L	105	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 885770
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-11
Instrument ID: HYDRA Run Time: 15:40 Method: 7471A
File ID: HY.092607.154030 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00215	mg/L	108	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 885770
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-13
Instrument ID: HYDRA Run Time: 16:02 Method: 7471A
File ID: HY.092607.160230 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00204	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 885770
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-15
Instrument ID: HYDRA Run Time: 16:15 Method: 7471A
File ID: HY.092607.161559 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00198	mg/L	99.0	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 885770
Report generated 09/26/2007 16:45

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709522 Run Date: 09/26/2007 Sample ID: WG251170-17
Instrument ID: HYDRA Run Time: 16:29 Method: 7471A
File ID: HY.092607.162906 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251018 Cal ID: HYDRA - 26-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00204	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 885770
Report generated 09/26/2007 16:45

2.4 General Chemistry Data

2.4.1 Percent Solids Data

2.4.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

WORKGROUP: WG251583

PERCENT SOLIDS

SOP K0003 Rev: a

Balance: OHAUS EIRW60/Other

Sample	Empty Pan WT 1	WET WT2	DRY WT 3A	WET WT 3B	DRY WT 3C
L0709615-19, 20, 21	1.33	19.86	16.88		
22	1.31	21.14	17.71		
23	1.28	34.85	33.89		
24	1.29	37.17	34.76		
25	1.32	32.56	30.38		
26	1.30	31.24	26.11		
28	1.26	16.91	14.88		
14	1.29	27.85	24.24		
~~L0709~~L0710025-01	1.26	19.34	18.93		
02	1.26	24.64	20.89		
03	1.30	24.70	20.35		
04	1.34	26.64	22.65		
05	1.33	22.77	21.23		
07	1.34	17.04	13.53		
06	1.29	26.27	23.10		
L0709522-01	1.27	25.76	24.43		
02	1.27	26.58	23.50		
04	1.25	21.64	18.51		
05	1.28	30.16	26.26		
06	1.31	34.97	29.01		
Duplicate: L0709522-06	1.32	33.20	28.73		

Analyst: Justin P. Hesson Deanna Hesson

ADT (on): 10/1/2007 @1445

ADT (off): 10/2/0947

ADT (off): _____

DCN#71220

Deanna Hesson

Approved: October 05, 2007

KEMRON ENVIRONMENTAL SERVICES
PERCENT SOLID REPORT

Workgroup (AAB#):WG251583 Run Date:10/01/2007
Method:D2216-90 Run Time:14:45
Analyst:DIH

SAMPLE NUMBER	Pan WT.	Int WT.	Fnl WT.	% Solid	% Moist	UNITS
L0709522-01	1.270	25.76	24.43	94.57		%
L0709522-02	1.270	26.58	23.50	87.83		%
L0709522-04	1.250	21.64	18.51	84.65		%
L0709522-05	1.280	30.16	26.26	86.50		%
L0709522-06	1.310	34.97	29.01	82.29		%
L0709615-14	1.290	27.85	24.24	86.41		%
L0709615-19	1.330	19.86	16.88	83.92		%
L0709615-20	1.330	19.86	16.88	83.92		%
L0709615-21	1.330	19.86	16.88	83.92		%
L0709615-22	1.310	21.14	17.71	82.70		%
L0709615-23	1.280	34.85	33.89	97.14		%
L0709615-24	1.290	37.17	34.76	93.28		%
L0709615-25	1.320	32.56	30.38	93.02		%
L0709615-26	1.300	31.24	26.11	82.87		%
L0709615-28	1.260	16.91	14.88	87.03		%
L0710025-01	1.260	19.34	18.93	97.73		%
L0710025-02	1.260	24.64	20.89	83.96		%
L0710025-03	1.300	24.70	20.35	81.41		%
L0710025-04	1.340	26.64	22.65	84.23		%
L0710025-05	1.330	22.77	21.23	92.82		%
L0710025-06	1.290	26.27	23.10	87.31		%
L0710025-07	1.340	17.04	13.53	77.64		%
WG251583-01	1.310	34.97	29.01	82.29	17.71	%
WG251583-02	1.320	33.20	28.73	85.98	14.02	%

KEMRON FORMS - Modified 02/25/2007
Version 1.2
Report generated 10/02/2007 10:48

Approved: October 05, 2007

WORKGROUP: WG251594

PERCENT SOLIDS

SOP K0003 Rev: 9

Balance: (OHAUS EIRW60) Other

Sample	Empty Pan WT 1	WET WT2	DRY WT 3A	WET WT 3B	DRY WT 3C
L0709522-07	1.25	32.15	27.70		
08	1.28	16.49	14.57		
L0709555-01	1.26	33.76	24.64		
L0709680-01	1.24	22.14	19.98		
03	1.27	23.02	22.38		
L0709733-01	1.29	39.50	29.97		
02	1.31	41.37	34.46		
03	1.30	36.46	28.05		
04	1.27	21.00	16.28		
05	1.24	34.64	26.24		
06	1.22	28.70	22.14		
07	1.21	24.06	19.10		
08	1.23	28.10	21.48		
L0709623-01	1.25	21.13	20.99		
04	1.24	21.87	21.55		
05	1.21	~~25.31~~	20.78 20.57		
09	1.20	21.17	20.85		
10	1.23	20.00	19.74		
Duplicate: L0709623-10	1.25	20.93	20.71		

Analyst: Justin P. Hesson

Dean Hesson

ADT (on): 10/1/07 @ 1620

ADT (off): 10/2/07 0952

ADT (off): _____

DCN#71221

Deanna Hesson

Approved: October 05, 2007

KEMRON ENVIRONMENTAL SERVICES
PERCENT SOLID REPORT

Workgroup (AAB#):WG251594 Run Date:10/01/2007
Method:D2216-90 Run Time:16:20
Analyst:DIH

SAMPLE NUMBER	Pan WT.	Int WT.	Fnl WT.	% Solid	% Moist	UNITS
L0709522-07	1.250	32.15	27.70	85.60		%
L0709522-08	1.280	16.49	14.57	87.38		%
L0709555-01	1.260	33.76	24.64	71.94		%
L0709623-01	1.250	21.13	20.99	99.30		%
L0709623-04	1.240	21.87	21.55	98.45		%
L0709623-05	1.210	20.78	20.57	98.93		%
L0709623-09	1.200	21.17	20.85	98.40		%
L0709623-10	1.230	20.00	19.74	98.61		%
L0709680-01	1.240	22.14	19.98	89.67		%
L0709680-03	1.270	23.02	22.38	97.06		%
L0709733-01	1.290	39.50	29.97	75.06		%
L0709733-02	1.310	41.37	34.46	82.75		%
L0709733-03	1.300	36.46	28.05	76.08		%
L0709733-04	1.270	21.00	16.28	76.08		%
L0709733-05	1.240	34.64	26.24	74.85		%
L0709733-06	1.220	28.70	22.14	76.13		%
L0709733-07	1.210	24.06	19.10	78.29		%
L0709733-08	1.230	28.10	21.48	75.36		%
WG251594-01	1.230	20.00	19.74	98.61	1.385	%
WG251594-02	1.250	20.93	20.71	98.88	1.118	%

KEMRON FORMS - Modified 02/25/2007
Version 1.2
Report generated 10/02/2007 10:54

Approved: October 05, 2007

3.0 Attachments

Kemron Environmental Services
Analyst Listing
October 12, 2007

AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BOCK	AML – ANTHONY M. LONG
ARA – ADRIAN R. ACHTERMANN	ASP – AARON S. PETRIE	BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CLC – CHRYS L. CRAWFORD	CLW – CHARISSA L. WINTERS	CM – CHARLIE MARTIN
CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DD – DIANE M. DENNIS	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
DR – DEANNA ROBERTS	DRP – DAVE R. PITZER	DSF – DEBRA S. FREDERICK
DST – DENNIS S. TEPE	ECL – ERIC C. LAWSON	ED – EMILY E. DECKER
ERE – ERIN R. ELDER	FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR
HJR – HOLLY J. REED	JAB – JUANITA A. BECKER	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JCO – JOE C. OWENS	JDH – JUSTIN D. HESSON
JKP – JACQUELINE K. PARSONS	JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KCZ – KEVIN C. ZUMBRO
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KJW – KATIE J. WIEFERICH
KRA – KATHY R. ALBERTSON	KRV – KATHRINE R. VICKERS	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN
MES – MARY E. SCHILLING	MKZ – MARILYN K. ZUMBRO	MLR – MARY L. ROCHOTTE
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
NJB – NATALIE J. BOOTH	PJM – PAUL J. MILLER	RAH – ROY A. HALSTEAD
RB – ROBERT BUCHANAN	REK – ROBERT E. KYER	RLF – RACHEL L. FRYE
RLK – ROBIN L. KLINGER	RNP – RICK N. PETTY	RWC – RODNEY W. CAMPBELL
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE
TDH – TRICIA D. HUCK	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WFM – WALTER F. MARTIN	

KEMRON Environmental Services

List of Valid Qualifiers

October 12, 2007

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

B9038

COC No. A 75668

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Paul Weber

Contact Phone #: 919-875-4311 x13

Turn Around Requirements: Standard

Location: South Charleston Lab

Project #: 342092.01.WP

Project Name: Tech Center Bldg 707/706/714

Sampler (print): Kevin Olness

Signature:

Program: ☐ NPDES ☐ AFCEE ☐ RCRA ☐ USACE ☐ Other

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF CONTAINERS	Hold	TCL VOC - 8260	TCL SVOC - 8260 RCRA Metals	ADDITIONAL REQUIREMENTS: Sample interval
0076-SO-092007	FD		~~09/20/07~~	1150			8		X	X X	0-2'
0076-GW-092007			~~1200~~ "	1200			5		X	X	16-20'
0077-SO-092007			~~1355~~ "	1355			4		X	X X	11-12'
0078-SO-092007			09/20/07	1455			4		X	X X	0-2'
0079-SO-092007			"	1510			4		X	X X	3-4'
0080-SO-092007			"	1610			4		X	X X	0-2'
0081-SO-092007			"	1620			2		X		0-2'
trip blanks											

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	09/20/07	1520					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:

*Homogenize all composite samples prior to analysis

Page _____ of _____

KEMRON Environmental Services

SAMPLE RECEIPT FORM

156 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	CH2M Hill
Workorder Number:	B [illegible]
Date Received:	9-21-07
Delivered by:	(✓) Fedx ( ) UPS ( ) Client ( ) Courier **Time:** 1100
Opened by:	RLK
IR Temp Gun:	(✓) D ( ) G
Logged by:	BLG L 9-522

Cooler Information

Cooler ID	Temp C	Airbill#	COC#	Other
1789	2	792566495 4951	75668	soil; water; encore

Inspection Checklist	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/information complete/signed/dated?	✓			
Were sample containers and labels intact?	✓	✓		(1)
Were correct containers used?	✓			
Were correct preservatives used (water only)?	✓			
Were pH ranges acceptable?			✓	
Were VOA samples free of headspace?			✓	
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

(1) Bottle 6078-50-092007 - time on bottle is 1435 } different
Bottle 6081-50-092007 - time on bottle is 1610 } from chain

Distribution

Name of KEMRON representative	
Client/Company:	
Person Contacted:	
Date contacted:	

Resolution/other comments:

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-02	376863	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Samplenum	Container ID	Products
L0709522-04	376870	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:26	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:19	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:37	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-07	376879	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:26	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:20	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

Samplenum	Container ID	Products
L0709522-02	376865	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:26	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:19	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:37	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-05	376871	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 14:00	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 14:00	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Samplenum	Container ID	Products
L0709522-06	376874	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-01	376862	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:46	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:25	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:19	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

Samplenum	Container ID	Products
L0709522-02	376864	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-03	376866	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	21-SEP-2007 13:47	BRG	
2	ANALYZ	V1	ORG4	24-SEP-2007 12:06	MRT	ERE
3	STORE	ORG4	A2	08-OCT-2007 13:07	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	21-SEP-2007 13:47	BRG	
2	ANALYZ	V1	ORG4	24-SEP-2007 12:06	MRT	ERE
3	STORE	ORG4	A2	08-OCT-2007 13:07	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	21-SEP-2007 13:47	BRG	
2	ANALYZ	V1	ORG4	24-SEP-2007 12:06	MRT	ERE
3	STORE	ORG4	A2	08-OCT-2007 13:07	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-05	376873	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:26	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:20	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

Samplenum	Container ID	Products
L0709522-01	376861	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-07	376877	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-08	376880	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:19	ERE	MRT

Samplenum	Container ID	Products
L0709522-04	376869	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-08	376882	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:48	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:26	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:20	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-01	376860	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:46	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Samplenum	Container ID	Products
L0709522-06	376875	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-06	376876	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 06:32	CEB	ERE
3	STORE	EXT	W1	24-SEP-2007 13:41	ERE	CSH
4	PREP	W1	DIG	24-SEP-2007 14:55	REK	ERE
5	STORE	DIG	W1	26-SEP-2007 14:25	JKT	REK
6	PREP	W1	EXT	28-SEP-2007 06:20	CEB	ERE
7	STORE	EXT	W1	28-SEP-2007 09:47	ERE	CEB
8	ANALYZ	W1	WET	28-SEP-2007 14:37	JDH	JKT
9	STORE	WET	W1	02-OCT-2007 07:19	ERE	DIH
10	DISP	W1	A2	05-OCT-2007 13:46	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-07	376878	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-08	376881	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

Samplenum	Container ID	Products
L0709522-09	376883	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	21-SEP-2007 13:48	BRG	
2	ANALYZ	V1	ORG4	24-SEP-2007 12:06	MRT	ERE
3	STORE	ORG4	A2	08-OCT-2007 13:07	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	21-SEP-2007 13:48	BRG	
2	ANALYZ	V1	ORG4	24-SEP-2007 12:06	MRT	ERE
3	STORE	ORG4	A2	08-OCT-2007 13:07	ERE	MRT

Samplenum	Container ID	Products
L0709522-03	376867	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	PREP	W1	EXT	24-SEP-2007 09:10	CEB	ERE
3	DISP	W1	DISP	24-SEP-2007 22:17	RB	RB

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	21-SEP-2007 13:47	BRG	
2	STORE	W1	A1	24-SEP-2007 15:18	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709522
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 05-OCT-2007

Samplenum	Container ID	Products
L0709522-04	376868	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE
3	STORE	ORG4	A2	05-OCT-2007 11:18	ERE	MRT

Samplenum	Container ID	Products
L0709522-05	376872	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	21-SEP-2007 13:47	BRG	
2	ANALYZ	F1	VOAY	21-SEP-2007 13:59	MRT	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

156 Starlite Drive, Marietta, OH 45750 • TEL 740-373-4071 • FAX 740-373-4835 • http://www.kemron.com

Laboratory Report Number: L0709626

Please find enclosed the analytical results for the samples you submitted to KEMRON Environmental Services.

Review and compilation of your report was completed by KEMRON's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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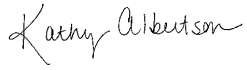
This report was reviewed on October 17, 2007.



KATHY ALBERTSON - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the NELAP standards and other applicable contract terms and conditions. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of KEMRON Environmental Services.

This report was certified on October 17, 2007.

David Vandenberg - Vice President

FL DOH NELAP ID: E8755
This report contains a total of 396 pages.

Protecting Our Environmental Future

KEMRON REPORT L0709626
PREPARED FOR CH2MHILL, Inc
WORK ID: DOW TECH CENTER

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1.0 Introduction

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

KEMRON Login No.: L0709626

CHAIN OF CUSTODY: The chain of custody number was 71723.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 18 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L0709626-01	0082-SO-092107
L0709626-02	0083-SO-092107
L0709626-03	0084-SO-092107
L0709626-04	0085-SO-092107
L0709626-05	0086-SO-092107
L0709626-06	0086-SO-092107/MS
L0709626-07	0086-SO-092107/MSD
L0709626-08	TRIP BLANK

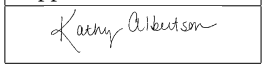
Per client, analyses proceeded with in spite of temperature anomaly.

Encore cartridges for 8260 analyses were prepped beyond 48 hr hold time per client.

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: KRA

Approved: 26-SEP-07



2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
GC/MS VOLATILE ORGANICS

KEMRON Login No.: L0709626

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: Samples 03 and 05 dilution analyses performed 19 days after collection. Sample 04 analysis performed 18 days after collection. All other acceptance criteria were met.

Sample Analysis: Samples 03 and 05 dilution analyses performed 19 days after collection. Sample 04 analysis performed 18 days after collection. All other acceptance criteria were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Samples were received outside of 48 hr. hold time; therefore, samples were prepared >48 hr. hold time. Samples were proceeded with permission of client.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower control limit in the water alternate source analyzed 10/01/07 on HPMS-11. Vinyl acetate exceeded the upper control limit in the water alternate source analyzed 09/12/07 on HPMS-6. All other acceptance criteria were met.

Continuing Calibration and Tune: Vinyl acetate was below the lower control limit in the water CCV analyzed 10/10/07 on HPMS-11. Chloromethane, bromomethane, and vinyl acetate were below the lower control limits and 1,4-dioxane exceeded the upper control limit in the water CCV analyzed 10/01/07 on HPMS-6.
4-Methyl-2-pentanone and bromomethane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 09/26/07 on HPMS-9. Bromomethane and 1,4-dioxane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 10/10/07 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: 1,4-Dioxane was not added and vinyl chloride exceeded the upper control limit in the low-level soil LCS/LCSD analyzed 10/10/07 on HPMS-9. The sample associated with this LCS/LCSD was sample 04. Vinyl acetate was below the lower control limit in the mid-level soil LCS analyzed 10/03/07 on HPMS-11. All other acceptance criteria were met.

Matrix Spike: Recovery results for 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,4-dioxane, 2-hexanone, benzene, chlorobenzene, c-1,2-dichloroethene, ethylbenzene, styrene, toluene, trichloroethene, vinyl acetate, xylenes, and vinyl chloride were outside control limits and RPD results for 1,1,2,2-tetrachloroethane, 2-hexanone, benzene, ethylbenzene, toluene, and vinyl acetate exceeded the upper control limits in the MS/MSD analyses of sample 05. All other acceptance criteria

were met.

SAMPLES

Internal Standards: 1,4-Dichlorobenzene-d4 was below the lower control limit in the analyses of samples 05 (reference), 06 (MS), and 07 (MSD). All other acceptance criteria were met.

Surrogates: 4-Bromofluorobenzene exceeded the upper control limits in the analyses of samples 05 (reference), 06 (MS), and 07 (MSD). All other acceptance criteria were met.

Samples: Samples 02, 03, and 05 required dilution analyses to obtain results within the calibrated range of the instrument. The ”J” qualified dilution results for c-1,2-dichloroethene in sample 02 and chlorobenzene in sample 05 were bracketed by calibration standards. Ethylbenzene exceeded the upper calibration limit of the instrument in the un-diluted analysis of sample 05 but was not detected above the MDL or RL in the mid-level dilution. Sample 04 was initially analyzed within hold-time, however, carry-over contamination from the un-diluted analyses of samples 02 and 03 prevented reporting the results.

Manual Integration Reason Codes

KEMRON laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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: MES

Approved: 16-OCT-07

LABORATORY REPORT

L0709626

10/17/07 08:16

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG. 706/707/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0082-SO-092107	L0709626-01	8260B	1	24-SEP-07
0083-SO-092107	L0709626-02	8260B	1	24-SEP-07
0083-SO-092107	L0709626-02	8260B	50	24-SEP-07
0084-SO-092107	L0709626-03	8260B	1	24-SEP-07
0084-SO-092107	L0709626-03	8260B	5000	24-SEP-07
0085-SO-092107	L0709626-04	8260B	1	24-SEP-07
0086-SO-092107	L0709626-05	8260B	1	24-SEP-07
0086-SO-092107	L0709626-05	8260B	100	24-SEP-07
0086-SO-092107/MS	L0709626-06	8260B	1	24-SEP-07
0086-SO-092107/MSD	L0709626-07	8260B	1	24-SEP-07
TRIP BLANK	L0709626-08	8260B	1	24-SEP-07

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-01**
Client ID: **0082-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 11:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 11:43**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 11:43**
File ID: **9M56995**
Percent Solid: **81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.43	0.543
1,1,2,2-Tetrachloroethane	79-34-5		U	5.43	0.543
1,1,2-Trichloroethane	79-00-5		U	5.43	0.543
1,1-Dichloroethane	75-34-3		U	5.43	1.09
1,1-Dichloroethene	75-35-4		U	5.43	0.543
1,2,4-Trichlorobenzene	120-82-1		U	5.43	0.543
1,2-Dichlorobenzene	95-50-1		U	5.43	0.543
1,2-Dichloroethane	107-06-2		U	5.43	0.543
1,2-Dichloropropane	78-87-5		U	5.43	0.543
1,3-Dichlorobenzene	541-73-1		U	5.43	0.543
1,4-Dichlorobenzene	106-46-7		U	5.43	0.543
1,4-Dioxane	123-91-1		U	1850	54.3
2-Butanone	78-93-3		U	27.1	2.71
2-Hexanone	591-78-6		U	10.9	2.71
4-Methyl-2-pentanone	108-10-1		U	10.9	2.71
Acetone	67-64-1		U	109	5.43
Acrylonitrile	107-13-1		U	109	2.71
Benzene	71-43-2		U	5.43	0.543
Bromodichloromethane	75-27-4		U	5.43	0.543
Bromoform	75-25-2		U	5.43	0.543
Bromomethane	74-83-9		U	10.9	1.09
Carbon disulfide	75-15-0		U	5.43	0.543
Carbon tetrachloride	56-23-5		U	5.43	0.543
Chlorobenzene	108-90-7	9.69		5.43	0.543
Dibromochloromethane	124-48-1		U	5.43	0.543
Chloroethane	75-00-3		U	10.9	1.09
Chloroform	67-66-3		U	5.43	0.543
Chloromethane	74-87-3		U	10.9	2.17
cis-1,2-Dichloroethene	156-59-2		U	5.43	0.543
cis-1,3-Dichloropropene	10061-01-5		U	5.43	0.543
Ethylbenzene	100-41-4		U	5.43	0.543
Methylene chloride	75-09-2		U	5.43	1.09
Methyltert-butyl ether	1634-04-4		U	10.9	0.543
Styrene	100-42-5		U	5.43	0.543
Tetrachloroethene	127-18-4		U	5.43	0.543
Toluene	108-88-3		U	5.43	0.543
trans-1,2-Dichloroethene	156-60-5		U	5.43	0.543
trans-1,3-Dichloropropene	10061-02-6		U	5.43	0.543
Trichloroethene	79-01-6		U	5.43	0.543
Vinyl acetate	108-05-4		U	10.9	1.09
Vinyl chloride	75-01-4		U	10.9	1.09
Xylenes	1330-20-7		U	10.9	0.543

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	85.5	70	121	
4-Bromofluorobenzene	94.9	59	113	
Dibromofluoromethane	104	65	135	
Toluene-d8	104	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 12:14**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 12:14**
File ID: **9M56996**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.24	0.524
1,1,2,2-Tetrachloroethane	79-34-5		U	5.24	0.524
1,1,2-Trichloroethane	79-00-5	19.9		5.24	0.524
1,1-Dichloroethane	75-34-3		U	5.24	1.05
1,1-Dichloroethene	75-35-4	116		5.24	0.524
1,2,4-Trichlorobenzene	120-82-1		U	5.24	0.524
1,2-Dichlorobenzene	95-50-1	839	E	5.24	0.524
1,2-Dichloroethane	107-06-2	56.0		5.24	0.524
1,2-Dichloropropane	78-87-5		U	5.24	0.524
1,3-Dichlorobenzene	541-73-1		U	5.24	0.524
1,4-Dichlorobenzene	106-46-7	89.6		5.24	0.524
1,4-Dioxane	123-91-1		U	1780	52.4
2-Butanone	78-93-3		U	26.2	2.62
2-Hexanone	591-78-6		U	10.5	2.62
4-Methyl-2-pentanone	108-10-1		U	10.5	2.62
Acetone	67-64-1		U	105	5.24
Acrylonitrile	107-13-1		U	105	2.62
Benzene	71-43-2		U	5.24	0.524
Bromodichloromethane	75-27-4		U	5.24	0.524
Bromoform	75-25-2		U	5.24	0.524
Bromomethane	74-83-9		U	10.5	1.05
Carbon disulfide	75-15-0		U	5.24	0.524
Carbon tetrachloride	56-23-5		U	5.24	0.524
Chlorobenzene	108-90-7	363	E	5.24	0.524
Dibromochloromethane	124-48-1		U	5.24	0.524
Chloroethane	75-00-3		U	10.5	1.05
Chloroform	67-66-3	29.6		5.24	0.524
Chloromethane	74-87-3		U	10.5	2.10
cis-1,2-Dichloroethene	156-59-2	289	E	5.24	0.524
cis-1,3-Dichloropropene	10061-01-5		U	5.24	0.524
Ethylbenzene	100-41-4		U	5.24	0.524
Methylene chloride	75-09-2		U	5.24	1.05
Methyltert-butyl ether	1634-04-4		U	10.5	0.524
Styrene	100-42-5		U	5.24	0.524
Tetrachloroethene	127-18-4	212	E	5.24	0.524
Toluene	108-88-3	10.3		5.24	0.524
trans-1,2-Dichloroethene	156-60-5	12.1		5.24	0.524
trans-1,3-Dichloropropene	10061-02-6		U	5.24	0.524
Trichloroethene	79-01-6	83.7		5.24	0.524
Vinyl acetate	108-05-4		U	10.5	1.05
Vinyl chloride	75-01-4	66.1		10.5	1.05
Xylenes	1330-20-7		U	10.5	0.524

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	77.3	70	121	
4-Bromofluorobenzene	90.5	59	113	
Dibromofluoromethane	95.1	65	135	
Toluene-d8	96.4	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-02**	PrePrep Method:	**NONE**	Instrument:	**HPMS9**
Client ID:	**0083-SO-092107**	Prep Method:	**5030B**	Prep Date:	**09/26/2007 12:14**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**08/14/2007 16:27**
Workgroup Number:	**WG251043**	Analyst:	**MES**	Run Date:	**09/26/2007 12:14**
Collect Date:	**09/21/2007 11:50**	Dilution:	**1**	File ID:	**9M56996**
Sample Tag:	**01**	Units:	**ug/kg**	Percent Solid:	**88.1**

E Semiquantitative result (out of instrument calibration range)

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251776**
Collect Date: **09/21/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS11**
Prep Date: **10/03/2007 09:49**
Cal Date: **10/01/2007 15:48**
Run Date: **10/03/2007 09:49**
File ID: **11M46142**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	431	43.1
1,1,2,2-Tetrachloroethane	79-34-5		U	431	43.1
1,1,2-Trichloroethane	79-00-5		U	431	43.1
1,1-Dichloroethane	75-34-3		U	431	86.2
1,1-Dichloroethene	75-35-4		U	431	43.1
1,2,4-Trichlorobenzene	120-82-1		U	431	43.1
1,2-Dichlorobenzene	95-50-1	5350		431	43.1
1,2-Dichloroethane	107-06-2		U	431	43.1
1,2-Dichloropropane	78-87-5		U	431	43.1
1,3-Dichlorobenzene	541-73-1		U	431	43.1
1,4-Dichlorobenzene	106-46-7	573		431	43.1
1,4-Dioxane	123-91-1		U	146000	4310
2-Butanone	78-93-3		U	2150	215
2-Hexanone	591-78-6		U	862	215
4-Methyl-2-pentanone	108-10-1		U	862	215
Acetone	67-64-1		U	8620	431
Acrylonitrile	107-13-1		U	8620	215
Benzene	71-43-2		U	431	43.1
Bromodichloromethane	75-27-4		U	431	43.1
Bromoform	75-25-2		U	431	43.1
Bromomethane	74-83-9		U	862	86.2
Carbon disulfide	75-15-0		U	431	43.1
Carbon tetrachloride	56-23-5		U	431	43.1
Chlorobenzene	108-90-7	446		431	43.1
Dibromochloromethane	124-48-1		U	431	43.1
Chloroethane	75-00-3		U	862	86.2
Chloroform	67-66-3		U	431	43.1
Chloromethane	74-87-3		U	862	172
cis-1,2-Dichloroethene	156-59-2	108	J	431	43.1
cis-1,3-Dichloropropene	10061-01-5		U	431	43.1
Ethylbenzene	100-41-4		U	431	43.1
Methylene chloride	75-09-2		U	431	86.2
Methyltert-butyl ether	1634-04-4		U	862	43.1
Styrene	100-42-5		U	431	43.1
Tetrachloroethene	127-18-4	1350		431	43.1
Toluene	108-88-3		U	431	43.1
trans-1,2-Dichloroethene	156-60-5		U	431	43.1
trans-1,3-Dichloropropene	10061-02-6		U	431	43.1
Trichloroethene	79-01-6		U	431	43.1
Vinyl acetate	108-05-4		U	862	86.2
Vinyl chloride	75-01-4		U	862	86.2
Xylenes	1330-20-7		U	862	43.1

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	88.8	70	121	
4-Bromofluorobenzene	90.1	59	113	
Dibromofluoromethane	89.7	65	135	
Toluene-d8	92.1	86	138	

J The analyte was positively identified, but the quantitation was below the RL

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-02**	PrePrep Method:	**NONE**	Instrument:	**HPMS11**
Client ID:	**0083-SO-092107**	Prep Method:	**5030B**	Prep Date:	**10/03/2007 09:49**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**10/01/2007 15:48**
Workgroup Number:	**WG251776**	Analyst:	**MES**	Run Date:	**10/03/2007 09:49**
Collect Date:	**09/21/2007 11:50**	Dilution:	**50**	File ID:	**11M46142**
Sample Tag:	**DL01**	Units:	**ug/kg**	Percent Solid:	**88.1**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 12:45**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 12:45**
File ID: **9M56997**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.28	0.428
1,1,2,2-Tetrachloroethane	79-34-5		U	4.28	0.428
1,1,2-Trichloroethane	79-00-5	16.9		4.28	0.428
1,1-Dichloroethane	75-34-3		U	4.28	0.856
1,1-Dichloroethene	75-35-4	19.9		4.28	0.428
1,2,4-Trichlorobenzene	120-82-1	1300	E	4.28	0.428
1,2-Dichlorobenzene	95-50-1	2740	E	4.28	0.428
1,2-Dichloroethane	107-06-2		U	4.28	0.428
1,2-Dichloropropane	78-87-5		U	4.28	0.428
1,3-Dichlorobenzene	541-73-1	2110	E	4.28	0.428
1,4-Dichlorobenzene	106-46-7	2140	E	4.28	0.428
1,4-Dioxane	123-91-1		U	1460	42.8
2-Butanone	78-93-3		U	21.4	2.14
2-Hexanone	591-78-6		U	8.56	2.14
4-Methyl-2-pentanone	108-10-1		U	8.56	2.14
Acetone	67-64-1		U	85.6	4.28
Acrylonitrile	107-13-1		U	85.6	2.14
Benzene	71-43-2	58.8		4.28	0.428
Bromodichloromethane	75-27-4		U	4.28	0.428
Bromoform	75-25-2		U	4.28	0.428
Bromomethane	74-83-9		U	8.56	0.856
Carbon disulfide	75-15-0		U	4.28	0.428
Carbon tetrachloride	56-23-5		U	4.28	0.428
Chlorobenzene	108-90-7	1920	E	4.28	0.428
Dibromochloromethane	124-48-1		U	4.28	0.428
Chloroethane	75-00-3		U	8.56	0.856
Chloroform	67-66-3	12.4		4.28	0.428
Chloromethane	74-87-3		U	8.56	1.71
cis-1,2-Dichloroethene	156-59-2	50.6		4.28	0.428
cis-1,3-Dichloropropene	10061-01-5		U	4.28	0.428
Ethylbenzene	100-41-4	110		4.28	0.428
Methylene chloride	75-09-2		U	4.28	0.856
Methyltert-butyl ether	1634-04-4		U	8.56	0.428
Styrene	100-42-5		U	4.28	0.428
Tetrachloroethene	127-18-4	34.0		4.28	0.428
Toluene	108-88-3	26.8		4.28	0.428
trans-1,2-Dichloroethene	156-60-5		U	4.28	0.428
trans-1,3-Dichloropropene	10061-02-6		U	4.28	0.428
Trichloroethene	79-01-6	30.1		4.28	0.428
Vinyl acetate	108-05-4		U	8.56	0.856
Vinyl chloride	75-01-4		U	8.56	0.856
Xylenes	1330-20-7	96.3		8.56	0.428

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.8	70	121	
4-Bromofluorobenzene	106	59	113	
Dibromofluoromethane	106	65	135	
Toluene-d8	119	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-03**	PrePrep Method:	**NONE**	Instrument:	**HPMS9**
Client ID:	**0084-SO-092107**	Prep Method:	**5030B**	Prep Date:	**09/26/2007 12:45**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**08/14/2007 16:27**
Workgroup Number:	**WG251043**	Analyst:	**MES**	Run Date:	**09/26/2007 12:45**
Collect Date:	**09/21/2007 13:55**	Dilution:	**1**	File ID:	**9M56997**
Sample Tag:	**01**	Units:	**ug/kg**	Percent Solid:	**88.5**

E Semiquantitative result (out of instrument calibration range)

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252433**
Collect Date: **09/21/2007 13:55**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **5000**
Units: **ug/kg**

Instrument: **HPMS11**
Prep Date: **10/10/2007 17:29**
Cal Date: **10/01/2007 15:48**
Run Date: **10/10/2007 17:29**
File ID: **11M46455**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	43100	4310
1,1,2,2-Tetrachloroethane	79-34-5		U	43100	4310
1,1,2-Trichloroethane	79-00-5		U	43100	4310
1,1-Dichloroethane	75-34-3		U	43100	8620
1,1-Dichloroethene	75-35-4		U	43100	4310
1,2,4-Trichlorobenzene	120-82-1	76100		43100	4310
1,2-Dichlorobenzene	95-50-1	1430000		43100	4310
1,2-Dichloroethane	107-06-2		U	43100	4310
1,2-Dichloropropane	78-87-5		U	43100	4310
1,3-Dichlorobenzene	541-73-1	135000		43100	4310
1,4-Dichlorobenzene	106-46-7	186000		43100	4310
1,4-Dioxane	123-91-1		U	14600000	431000
2-Butanone	78-93-3		U	215000	21500
2-Hexanone	591-78-6		U	86200	21500
4-Methyl-2-pentanone	108-10-1		U	86200	21500
Acetone	67-64-1		U	862000	43100
Acrylonitrile	107-13-1		U	862000	21500
Benzene	71-43-2		U	43100	4310
Bromodichloromethane	75-27-4		U	43100	4310
Bromoform	75-25-2		U	43100	4310
Bromomethane	74-83-9		U	86200	8620
Carbon disulfide	75-15-0		U	43100	4310
Carbon tetrachloride	56-23-5		U	43100	4310
Chlorobenzene	108-90-7	321000		43100	4310
Dibromochloromethane	124-48-1		U	43100	4310
Chloroethane	75-00-3		U	86200	8620
Chloroform	67-66-3		U	43100	4310
Chloromethane	74-87-3		U	86200	17200
cis-1,2-Dichloroethene	156-59-2		U	43100	4310
cis-1,3-Dichloropropene	10061-01-5		U	43100	4310
Ethylbenzene	100-41-4		U	43100	4310
Methylene chloride	75-09-2		U	43100	8620
Methyltert-butyl ether	1634-04-4		U	86200	4310
Styrene	100-42-5		U	43100	4310
Tetrachloroethene	127-18-4		U	43100	4310
Toluene	108-88-3		U	43100	4310
trans-1,2-Dichloroethene	156-60-5		U	43100	4310
trans-1,3-Dichloropropene	10061-02-6		U	43100	4310
Trichloroethene	79-01-6		U	43100	4310
Vinyl acetate	108-05-4		U	86200	8620
Vinyl chloride	75-01-4		U	86200	8620
Xylenes	1330-20-7		U	86200	4310

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	83.7	70	121	
4-Bromofluorobenzene	85.7	59	113	
Dibromofluoromethane	84.2	65	135	
Toluene-d8	90.1	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-04**
Client ID: **0085-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252430**
Collect Date: **09/21/2007 14:10**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **10/10/2007 12:50**
Cal Date: **08/14/2007 16:27**
Run Date: **10/10/2007 12:50**
File ID: **9M57293**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.25	0.425
1,1,2,2-Tetrachloroethane	79-34-5		U	4.25	0.425
1,1,2-Trichloroethane	79-00-5		U	4.25	0.425
1,1-Dichloroethane	75-34-3		U	4.25	0.850
1,1-Dichloroethene	75-35-4		U	4.25	0.425
1,2,4-Trichlorobenzene	120-82-1		U	4.25	0.425
1,2-Dichlorobenzene	95-50-1		U	4.25	0.425
1,2-Dichloroethane	107-06-2		U	4.25	0.425
1,2-Dichloropropane	78-87-5		U	4.25	0.425
1,3-Dichlorobenzene	541-73-1		U	4.25	0.425
1,4-Dichlorobenzene	106-46-7		U	4.25	0.425
1,4-Dioxane	123-91-1		U	1450	42.5
2-Butanone	78-93-3		U	21.3	2.13
2-Hexanone	591-78-6		U	8.50	2.13
4-Methyl-2-pentanone	108-10-1		U	8.50	2.13
Acetone	67-64-1		U	85.0	4.25
Acrylonitrile	107-13-1		U	85.0	2.13
Benzene	71-43-2		U	4.25	0.425
Bromodichloromethane	75-27-4		U	4.25	0.425
Bromoform	75-25-2		U	4.25	0.425
Bromomethane	74-83-9		U	8.50	0.850
Carbon disulfide	75-15-0		U	4.25	0.425
Carbon tetrachloride	56-23-5		U	4.25	0.425
Chlorobenzene	108-90-7		U	4.25	0.425
Dibromochloromethane	124-48-1		U	4.25	0.425
Chloroethane	75-00-3		U	8.50	0.850
Chloroform	67-66-3		U	4.25	0.425
Chloromethane	74-87-3		U	8.50	1.70
cis-1,2-Dichloroethene	156-59-2		U	4.25	0.425
cis-1,3-Dichloropropene	10061-01-5		U	4.25	0.425
Ethylbenzene	100-41-4		U	4.25	0.425
Methylene chloride	75-09-2		U	4.25	0.850
Methyltert-butyl ether	1634-04-4		U	8.50	0.425
Styrene	100-42-5		U	4.25	0.425
Tetrachloroethene	127-18-4		U	4.25	0.425
Toluene	108-88-3		U	4.25	0.425
trans-1,2-Dichloroethene	156-60-5		U	4.25	0.425
trans-1,3-Dichloropropene	10061-02-6		U	4.25	0.425
Trichloroethene	79-01-6		U	4.25	0.425
Vinyl acetate	108-05-4		U	8.50	0.850
Vinyl chloride	75-01-4		U	8.50	0.850
Xylenes	1330-20-7		U	8.50	0.425

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	91.6	70	121	
4-Bromofluorobenzene	91.4	59	113	
Dibromofluoromethane	106	65	135	
Toluene-d8	99.0	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-05**
Client ID: **0086-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 13:47**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 13:47**
File ID: **9M56999**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.01	0.501
1,1,2,2-Tetrachloroethane	79-34-5		U	5.01	0.501
1,1,2-Trichloroethane	79-00-5		U	5.01	0.501
1,1-Dichloroethane	75-34-3		U	5.01	1.00
1,1-Dichloroethene	75-35-4		U	5.01	0.501
1,2,4-Trichlorobenzene	120-82-1		U	5.01	0.501
1,2-Dichlorobenzene	95-50-1	49.9		5.01	0.501
1,2-Dichloroethane	107-06-2		U	5.01	0.501
1,2-Dichloropropane	78-87-5		U	5.01	0.501
1,3-Dichlorobenzene	541-73-1		U	5.01	0.501
1,4-Dichlorobenzene	106-46-7		U	5.01	0.501
1,4-Dioxane	123-91-1		U	1700	50.1
2-Butanone	78-93-3		U	25.1	2.51
2-Hexanone	591-78-6		U	10.0	2.51
4-Methyl-2-pentanone	108-10-1		U	10.0	2.51
Acetone	67-64-1		U	100	5.01
Acrylonitrile	107-13-1		U	100	2.51
Benzene	71-43-2	24.0		5.01	0.501
Bromodichloromethane	75-27-4		U	5.01	0.501
Bromoform	75-25-2		U	5.01	0.501
Bromomethane	74-83-9		U	10.0	1.00
Carbon disulfide	75-15-0		U	5.01	0.501
Carbon tetrachloride	56-23-5		U	5.01	0.501
Chlorobenzene	108-90-7	823	E	5.01	0.501
Dibromochloromethane	124-48-1		U	5.01	0.501
Chloroethane	75-00-3		U	10.0	1.00
Chloroform	67-66-3		U	5.01	0.501
Chloromethane	74-87-3		U	10.0	2.01
cis-1,2-Dichloroethene	156-59-2		U	5.01	0.501
cis-1,3-Dichloropropene	10061-01-5		U	5.01	0.501
Ethylbenzene	100-41-4	215	E	5.01	0.501
Methylene chloride	75-09-2		U	5.01	1.00
Methyltert-butyl ether	1634-04-4		U	10.0	0.501
Styrene	100-42-5		U	5.01	0.501
Tetrachloroethene	127-18-4		U	5.01	0.501
Toluene	108-88-3		U	5.01	0.501
trans-1,2-Dichloroethene	156-60-5		U	5.01	0.501
trans-1,3-Dichloropropene	10061-02-6		U	5.01	0.501
Trichloroethene	79-01-6		U	5.01	0.501
Vinyl acetate	108-05-4		U	10.0	1.00
Vinyl chloride	75-01-4		U	10.0	1.00
Xylenes	1330-20-7	44.6		10.0	0.501

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	79.6	70	121	
4-Bromofluorobenzene	137	59	113	*
Dibromofluoromethane	97.0	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-05**	PrePrep Method:	**NONE**	Instrument:	**HPMS9**
Client ID:	**0086-SO-092107**	Prep Method:	**5030B**	Prep Date:	**09/26/2007 13:47**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**08/14/2007 16:27**
Workgroup Number:	**WG251043**	Analyst:	**MES**	Run Date:	**09/26/2007 13:47**
Collect Date:	**09/21/2007 14:50**	Dilution:	**1**	File ID:	**9M56999**
Sample Tag:	**01**	Units:	**ug/kg**	Percent Solid:	**80.2**

E Semiquantitative result (out of instrument calibration range)
*** Surrogate or spike compound out of range**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-05**
Client ID: **0086-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252433**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **100**
Units: **ug/kg**

Instrument: **HPMS11**
Prep Date: **10/10/2007 17:59**
Cal Date: **10/01/2007 15:48**
Run Date: **10/10/2007 17:59**
File ID: **11M46456**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1050	105
1,1,2,2-Tetrachloroethane	79-34-5		U	1050	105
1,1,2-Trichloroethane	79-00-5		U	1050	105
1,1-Dichloroethane	75-34-3		U	1050	210
1,1-Dichloroethene	75-35-4		U	1050	105
1,2,4-Trichlorobenzene	120-82-1		U	1050	105
1,2-Dichlorobenzene	95-50-1		U	1050	105
1,2-Dichloroethane	107-06-2		U	1050	105
1,2-Dichloropropane	78-87-5		U	1050	105
1,3-Dichlorobenzene	541-73-1		U	1050	105
1,4-Dichlorobenzene	106-46-7		U	1050	105
1,4-Dioxane	123-91-1		U	358000	10500
2-Butanone	78-93-3		U	5260	526
2-Hexanone	591-78-6		U	2100	526
4-Methyl-2-pentanone	108-10-1		U	2100	526
Acetone	67-64-1		U	21000	1050
Acrylonitrile	107-13-1		U	21000	526
Benzene	71-43-2		U	1050	105
Bromodichloromethane	75-27-4		U	1050	105
Bromoform	75-25-2		U	1050	105
Bromomethane	74-83-9		U	2100	210
Carbon disulfide	75-15-0		U	1050	105
Carbon tetrachloride	56-23-5		U	1050	105
Chlorobenzene	108-90-7	356	J	1050	105
Dibromochloromethane	124-48-1		U	1050	105
Chloroethane	75-00-3		U	2100	210
Chloroform	67-66-3		U	1050	105
Chloromethane	74-87-3		U	2100	421
cis-1,2-Dichloroethene	156-59-2		U	1050	105
cis-1,3-Dichloropropene	10061-01-5		U	1050	105
Ethylbenzene	100-41-4		U	1050	105
Methylene chloride	75-09-2		U	1050	210
Methyltert-butyl ether	1634-04-4		U	2100	105
Styrene	100-42-5		U	1050	105
Tetrachloroethene	127-18-4		U	1050	105
Toluene	108-88-3		U	1050	105
trans-1,2-Dichloroethene	156-60-5		U	1050	105
trans-1,3-Dichloropropene	10061-02-6		U	1050	105
Trichloroethene	79-01-6		U	1050	105
Vinyl acetate	108-05-4		U	2100	210
Vinyl chloride	75-01-4		U	2100	210
Xylenes	1330-20-7		U	2100	105

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	82.4	70	121	
4-Bromofluorobenzene	86.2	59	113	
Dibromofluoromethane	83.5	65	135	
Toluene-d8	87.2	86	138	

J The analyte was positively identified, but the quantitation was below the RL

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-05**	PrePrep Method:	**NONE**	Instrument:	**HPMS11**
Client ID:	**0086-SO-092107**	Prep Method:	**5030B**	Prep Date:	**10/10/2007 17:59**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**10/01/2007 15:48**
Workgroup Number:	**WG252433**	Analyst:	**MES**	Run Date:	**10/10/2007 17:59**
Collect Date:	**09/21/2007 14:50**	Dilution:	**100**	File ID:	**11M46456**
Sample Tag:	**DL01**	Units:	**ug/kg**	Percent Solid:	**80.2**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 14:23**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 14:23**
File ID: **9M57000**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6	21.4		5.19	0.519
1,1,2,2-Tetrachloroethane	79-34-5	54.4		5.19	0.519
1,1,2-Trichloroethane	79-00-5	27.9		5.19	0.519
1,1-Dichloroethane	75-34-3	21.4		5.19	1.04
1,1-Dichloroethene	75-35-4	25.5		5.19	0.519
1,2,4-Trichlorobenzene	120-82-1	12.9		5.19	0.519
1,2-Dichlorobenzene	95-50-1	156		5.19	0.519
1,2-Dichloroethane	107-06-2	24.9		5.19	0.519
1,2-Dichloropropane	78-87-5	24.1		5.19	0.519
1,3-Dichlorobenzene	541-73-1	27.6		5.19	0.519
1,4-Dichlorobenzene	106-46-7	44.1		5.19	0.519
1,4-Dioxane	123-91-1	527	J	1760	51.9
2-Butanone	78-93-3	22.9	J	25.9	2.59
2-Hexanone	591-78-6	31.2		10.4	2.59
4-Methyl-2-pentanone	108-10-1	24.5		10.4	2.59
Acetone	67-64-1	22.2	J	104	5.19
Acrylonitrile	107-13-1	20.7	J	104	2.59
Benzene	71-43-2	307	E	5.19	0.519
Bromodichloromethane	75-27-4	22.0		5.19	0.519
Bromoform	75-25-2	21.7		5.19	0.519
Bromomethane	74-83-9	26.4		10.4	1.04
Carbon disulfide	75-15-0	22.4		5.19	0.519
Carbon tetrachloride	56-23-5	22.0		5.19	0.519
Chlorobenzene	108-90-7	2660	E	5.19	0.519
Dibromochloromethane	124-48-1	25.3		5.19	0.519
Chloroethane	75-00-3	24.0		10.4	1.04
Chloroform	67-66-3	22.4		5.19	0.519
Chloromethane	74-87-3	22.5		10.4	2.08
cis-1,2-Dichloroethene	156-59-2	25.2		5.19	0.519
cis-1,3-Dichloropropene	10061-01-5	22.7		5.19	0.519
Ethylbenzene	100-41-4	1360	E	5.19	0.519
Methylene chloride	75-09-2	22.8		5.19	1.04
Methyltert-butyl ether	1634-04-4	22.7		10.4	0.519
Styrene	100-42-5	50.6		5.19	0.519
Tetrachloroethene	127-18-4	27.4		5.19	0.519
Toluene	108-88-3	50.7		5.19	0.519
trans-1,2-Dichloroethene	156-60-5	24.3		5.19	0.519
trans-1,3-Dichloropropene	10061-02-6	21.9		5.19	0.519
Trichloroethene	79-01-6	31.1		5.19	0.519
Vinyl acetate	108-05-4	5.59	J	10.4	1.04
Vinyl chloride	75-01-4	25.5		10.4	1.04
Xylenes	1330-20-7	288		10.4	0.519

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	86.5	70	121	
4-Bromofluorobenzene	161	59	113	*
Dibromofluoromethane	101	65	135	
Toluene-d8	115	86	138	

J The analyte was positively identified, but the quantitation was below the RL

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-06**	PrePrep Method:	**NONE**	Instrument:	**HPMS9**
Client ID:	**0086-SO-092107/MS**	Prep Method:	**5030B**	Prep Date:	**09/26/2007 14:23**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**08/14/2007 16:27**
Workgroup Number:	**WG251043**	Analyst:	**MES**	Run Date:	**09/26/2007 14:23**
Collect Date:	**09/21/2007 14:50**	Dilution:	**1**	File ID:	**9M57000**
Sample Tag:	**01**	Units:	**ug/kg**	Percent Solid:	**80.2**

E Semiquantitative result (out of instrument calibration range)
*** Surrogate or spike compound out of range**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG251043**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **09/26/2007 14:53**
Cal Date: **08/14/2007 16:27**
Run Date: **09/26/2007 14:53**
File ID: **9M57001**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6	21.9		5.11	0.511
1,1,2,2-Tetrachloroethane	79-34-5	124		5.11	0.511
1,1,2-Trichloroethane	79-00-5	28.5		5.11	0.511
1,1-Dichloroethane	75-34-3	22.4		5.11	1.02
1,1-Dichloroethene	75-35-4	27.4		5.11	0.511
1,2,4-Trichlorobenzene	120-82-1	13.7		5.11	0.511
1,2-Dichlorobenzene	95-50-1	153		5.11	0.511
1,2-Dichloroethane	107-06-2	20.8		5.11	0.511
1,2-Dichloropropane	78-87-5	24.2		5.11	0.511
1,3-Dichlorobenzene	541-73-1	30.5		5.11	0.511
1,4-Dichlorobenzene	106-46-7	39.9		5.11	0.511
1,4-Dioxane	123-91-1	419	J	1740	51.1
2-Butanone	78-93-3	22.5	J	25.6	2.56
2-Hexanone	591-78-6	48.8		10.2	2.56
4-Methyl-2-pentanone	108-10-1	23.3		10.2	2.56
Acetone	67-64-1	24.0	J	102	5.11
Acrylonitrile	107-13-1	20.0	J	102	2.56
Benzene	71-43-2	95.4		5.11	0.511
Bromodichloromethane	75-27-4	22.2		5.11	0.511
Bromoform	75-25-2	21.0		5.11	0.511
Bromomethane	74-83-9	27.3		10.2	1.02
Carbon disulfide	75-15-0	23.7		5.11	0.511
Carbon tetrachloride	56-23-5	22.0		5.11	0.511
Chlorobenzene	108-90-7	2130	E	5.11	0.511
Dibromochloromethane	124-48-1	26.1		5.11	0.511
Chloroethane	75-00-3	25.1		10.2	1.02
Chloroform	67-66-3	22.7		5.11	0.511
Chloromethane	74-87-3	23.6		10.2	2.05
cis-1,2-Dichloroethene	156-59-2	26.0		5.11	0.511
cis-1,3-Dichloropropene	10061-01-5	22.4		5.11	0.511
Ethylbenzene	100-41-4	881	E	5.11	0.511
Methylene chloride	75-09-2	23.4		5.11	1.02
Methyltert-butyl ether	1634-04-4	21.4		10.2	0.511
Styrene	100-42-5	38.3		5.11	0.511
Tetrachloroethene	127-18-4	26.8		5.11	0.511
Toluene	108-88-3	34.9		5.11	0.511
trans-1,2-Dichloroethene	156-60-5	25.9		5.11	0.511
trans-1,3-Dichloropropene	10061-02-6	22.7		5.11	0.511
Trichloroethene	79-01-6	28.3		5.11	0.511
Vinyl acetate	108-05-4	11.8		10.2	1.02
Vinyl chloride	75-01-4	26.7		10.2	1.02
Xylenes	1330-20-7	245		10.2	0.511

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	86.4	70	121	
4-Bromofluorobenzene	197	59	113	*
Dibromofluoromethane	106	65	135	
Toluene-d8	116	86	138	

J The analyte was positively identified, but the quantitation was below the RL

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-07**	PrePrep Method:	**NONE**	Instrument:	**HPMS9**
Client ID:	**0086-SO-092107/MSD**	Prep Method:	**5030B**	Prep Date:	**09/26/2007 14:53**
Matrix:	**Soil**	Analytical Method:	**8260B**	Cal Date:	**08/14/2007 16:27**
Workgroup Number:	**WG251043**	Analyst:	**MES**	Run Date:	**09/26/2007 14:53**
Collect Date:	**09/21/2007 14:50**	Dilution:	**1**	File ID:	**9M57001**
Sample Tag:	**01**	Units:	**ug/kg**	Percent Solid:	**80.2**

***** **Surrogate or spike compound out of range**
E **Semiquantitative result (out of instrument calibration range)**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-08**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG251611**
Collect Date: **09/21/2007 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **10/01/2007 22:11**
Cal Date: **09/12/2007 17:13**
Run Date: **10/01/2007 22:11**
File ID: **6M69489**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.1	76	114	
4-Bromofluorobenzene	102	86	115	
Dibromofluoromethane	95.8	85	115	
Toluene-d8	98.5	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: MR7/TMB/KTW Date Prepared/Preserved: 9/24/07 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0709365-06	A	9/11/07	NA	NA	NA	NA	1.01	NA	10		
" -02	"	9/12/07	"	"	"	"	1.06	"	"		
" -08	"	"	"	"	"	"	1.00	"	"		
L0709501-13	"	9/20/07	"	"	"	"	1.04	"	"		
" -14	"	"	"	"	"	"	1.00	"	"		
L0709584-14	A	9/20/07	NA	NA	NA	NA	1.03	NA	10		
L0709531-01	A	9/18/07	NA	NA	NA	NA	4.91	5	NA		
" -02	"	"	"	"	"	"	4.90	"	"		
" -03	"	"	"	"	"	"	4.95	"	"		
" -04	"	"	"	"	"	"	4.99	"	"		
L0709553-01	A	9/20/07	NA	NA	NA	NA	5.12	5	NA		
L0709542-01	A	9/20/07	NA	NA	30.66	35.95	5.29	NA	NA	5-pres. in field	
" -02	"	"	"	"	30.57	33.47	2.90	"	"	"	
" -03	"	"	"	"	30.66	36.73	6.07	"	"	"	
" -04	"	"	"	"	30.77	36.34	5.57	"	"	"	
" -05	"	"	"	"	30.57	35.22	4.65	"	"	"	
" -06	"	"	"	"	30.65	35.62	4.97	"	"	"	
" -07	"	"	"	"	30.38	34.87	4.49	"	"	"	
" -08	"	"	"	"	30.62	35.54	4.92	"	"	"	
L0709569-03	A	9/21/07	NA	NA	30.052	35.83	5.78	NA	NA	5-pres. in field	
" -04	"	"	"	"	31.113	36.20	5.09	"	"	~~5~~ KTW 9/24/07	
L0709626-01	A	9/21/07	11:05	15:44	NA	NA	5.63	5	-	5	
"	B	"	"	"	"	"	5.73	5	-	"	
"	C	"	"	"	"	"	6.46	-	10	"	

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing

Methanol (Manufacturer, Lot #) B+J CT981

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

KEMRON ENVIRONMENTAL SERVICES

MCT

VOA Preparation/Preservation and Extraction Log

Analyst: KJW Date Prepared/Preserved: 9/24/07 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0709626-02	A	9/21/07	11:50	15:46	NA	NA	5.92	5	–	5	
↓	B	↓	↓	↓	↓	↓	6.55	5	–	↓	
↓	C	↓	↓	↓	↓	↓	6.59	–	10	↓	
-03	A	↓	13:35	15:49	↓	↓	6.60	5	–	↓	
↓	B	↓	↓	↓	↓	↓	6.69	5	–	↓	
↓	C	↓	↓	↓	↓	↓	6.56	–	10	↓	
-04	A	↓	14:10	15:52	↓	↓	6.83	5	–	↓	
↓	B	↓	↓	↓	↓	↓	6.49	5	–	↓	
↓	C	↓	↓	↓	↓	↓	6.13	–	10	↓	
-05	A	↓	14:50	15:56	↓	↓	6.22	5	–	↓	
↓	B	↓	↓	↓	↓	↓	6.54	5	–	↓	
↓	C	↓	↓	↓	↓	↓	5.93	–	10	↓	
-06	A MS	↓	14:50	16:00	↓	↓	6.01	5	–	↓	
↓	B ↓	↓	↓	↓	↓	↓	4.50	5	–	↓	
↓	C ↓	↓	↓	↓	↓	↓	5.95	←	10	↓	
-07	A MSD	↓	14:50	16:03	↓	↓	6.10	5	–	↓	
↓	B ↓	↓	↓	↓	↓	↓	6.32	5	–	↓	
↓	C ↓	↓	↓	↓	↓	↓	5.73	–	10	↓	
Blank	A	NA	NA	NA	NA	NA	5	5	–	5	
↓	B	↓	↓	↓	↓	↓	↓	5	–	↓	
↓	C	↓	↓	↓	↓	↓	↓	–	10	↓	
L0709542-02	B	9/20/07	11:35	NA	30.44	33.46	3.02	NA	NA	5 – pres. in field	
					MCT 9/25/07						

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing

Methanol (Manufacturer, Lot #) B&J CT981

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 081407
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 20451

Internal Standard: STD20987 Surrogate Standard: STD20761
CCV: STD21325 LCS: STD21327 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG247666,WG247667

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M56000	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 08:33
2	9M56001	WG247666-02 50UG/L STD 8260	NA	7	1	STD21079	08/14/07 09:03
3	9M56002	WG247666-02 50UG/L STD 8260	NA	7	1	STD21079	08/14/07 09:37
4	9M56003	SYSTEM BLANK	NA	7	1		08/14/07 10:09
33	9M56004	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 10:37
34	9M56005	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 10:49
35	9M56006	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 11:05
5	9M56007	WG247666-01 50NG BFB STD 8260	NA	7	1	STD21056	08/14/07 11:19
6	9M56008	WG247666-02 0.5ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 11:42
7	9M56009	WG247666-03 1 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 12:13
8	9M56010	WG247666-04 2 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 12:49
9	9M56011	WG247666-05 5 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 13:19
10	9M56012	WG247666-06 10 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 13:51
11	9M56013	WG247666-07 20 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 14:22
12	9M56014	WG247666-08 50 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 14:53
13	9M56015	WG247666-09 100 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 15:24
14	9M56016	WG247666-10 200 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 15:55
15	9M56017	WG247666-11 300 ug/Kg SOIL STD 8260	NA	7	1	STD21325	08/14/07 16:27
16	9M56018	SYSTEM BLANK	NA	7	1		08/14/07 16:58
17	9M56019	WG247666-12 20ug/Kg ALT SOURCE	NA	7	1	STD21327	08/14/07 17:29
18	9M56020	WG247666-12 20ug/Kg ALT SOURCE	NA	7	1	STD21327	08/14/07 18:01
19	9M56021	WG247666-13 100ug/Kg OXY ALT SOURC	NA	7	1	STD21327	08/14/07 18:32
20	9M56022	WG247667-01 VBLK0814 BLANK 8260	NA	7	1		08/14/07 19:03
21	9M56023	WG247667-02 20ug/Kg LCS 8260	NA	7	1	STD21327	08/14/07 19:33
22	9M56024	WG247667-03 20ug/Kg LCSDUP 8260	NA	7	1	STD21327	08/14/07 20:04
23	9M56025	L0708111-16 B 826-SPE	NA	7	1		08/14/07 20:35
24	9M56026	L0708111-17 B 826-SPE	NA	7	1		08/14/07 21:06
25	9M56027	L0708204-01 A 826-SPE	NA	7	1		08/14/07 21:37
26	9M56028	L0708204-04 A 826-SPE	NA	7	1		08/14/07 22:08
27	9M56029	L0708206-05 A 8260	NA	7	1		08/14/07 22:39
28	9M56030	L0708206-06 A A1 8260	NA	7	1		08/14/07 23:10
29	9M56031	SYSTEM BLANK	NA	7	1		08/14/07 23:41
30	9M56032	L0707659-06 A 826-REF-BLK	NA	7	1		08/15/07 00:12
31	9M56033	L0707659-07 A 826-REF-BLK	NA	7	1		08/15/07 00:44

Approved: August 16, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 081407
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 20451

Internal Standard: STD20987 Surrogate Standard: STD20761
CCV: STD21325 LCS: STD21327 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG247666,WG247667

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
32	9M56034	L0707659-08 A 826-REF-BLK	NA	7	1		08/15/07 01:15

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 9M56001				
	RR, vc is high.			
3				
File ID: 9M56002				
	RR, vc is high. Running a curve.			
33				
File ID: 9M56004				
	RR, BFB failed.			
34				
File ID: 9M56005				
	RR, BFB failed. Replaced the septum.			
35				
File ID: 9M56006				
	RR, BFB failed.			
17				
File ID: 9M56019				
	Do not report.			
26	X	100	Over Calibration Range	TEX,n-propyl,135 and 124-TMB,n-butyl, naph
File ID: 9M56028				
27	X	1	Carry-over contamination	
File ID: 9M56029				
	Do not report.			
28				
File ID: 9M56030				
	RR as 00.			

Approved: August 16, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 091207
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 20822

Internal Standard: STD21729 Surrogate Standard: STD21808
CCV: STD21849 LCS: STD21852 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG249872

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M68860	SYSTEM BLANK	NA	1	1		09/12/07 07:54
2	6M68861	WG249872-01 BFB 50ng STD 8260	NA	1	1	STD21685	09/12/07 08:22
3	6M68862	WG249872-01 BFB 50ng STD 8260	NA	1	1	STD21685	09/12/07 08:45
4	6M68863	SYSTEM BLANK	NA	1	1		09/12/07 09:10
5	6M68864	WG249872-02 0.30ug/L STD 8260	NA	1	1	STD21849	09/12/07 09:44
6	6M68865	WG249872-03 0.40ug/L STD 8260	NA	1	1	STD21849	09/12/07 10:17
7	6M68866	WG249872-04 1ug/L STD 8260	NA	1	1	STD21849	09/12/07 10:49
8	6M68867	WG249872-05 2ug/L STD 8260	NA	1	1	STD21849	09/12/07 11:21
9	6M68868	WG249872-06 5ug/L STD 8260	NA	1	1	STD21849	09/12/07 11:53
10	6M68869	WG249872-06 20ug/L STD 8260	NA	1	1	STD21849	09/12/07 12:25
11	6M68870	WG249872-07 50ug/L STD 8260	NA	1	1	STD21849	09/12/07 12:57
12	6M68871	WG249872-08 100ug/L STD 8260	NA	1	1	STD21849	09/12/07 13:30
13	6M68872	WG249872-09 200ug/L STD 8260	NA	1	1	STD21849	09/12/07 14:02
14	6M68873	WG249872-10 300ug/L STD 8260	NA	1	1	STD21849	09/12/07 14:34
15	6M68874	SYSTEM BLANK	NA	1	1		09/12/07 15:06
16	6M68875	SYSTEM BLANK	NA	1	1		09/12/07 15:38
17	6M68876	WG249872-05 5ug/L STD 8260	NA	1	1	STD21849	09/12/07 16:10
18	6M68877	WG249872-05 2ug/L STD 8260	NA	1	1	STD21849	09/12/07 16:41
19	6M68878	WG249872-04 1ug/L STD 8260	NA	1	1	STD21849	09/12/07 17:13
20	6M68879	WG249872-11 20ug/L ALT SRC STD 8260	NA	1	1	STD21852	09/12/07 17:45
21	6M68880	SYSTEM BLANK	NA	1	1		09/12/07 18:17
22	6M68881	SYSTEM BLANK	NA	1	1		09/12/07 18:49

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 6M68861				
			Tune failed/DNR	
7	X			
File ID: 6M68866				
			DNR	
8	X			
File ID: 6M68867				
			DNR	

Approved: September 13, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 091207
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 20822

Internal Standard: STD21729 Surrogate Standard: STD21808
CCV: STD21849 LCS: STD21852 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG249872

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9	X			
File ID: 6M68868				
	DNR			
18				
File ID: 6M68877				
	DNR-DID NOT USE A 2 POINT IN CURVE			

Approved: September 13, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092607
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21032

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251043

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M56987	SYSTEM BLANK	NA	7	1		09/26/07 07:35
2	9M56988	WG251042-01 50NG BFB STD 8260	NA	7	1	STD21685	09/26/07 08:12
3	9M56989	WG251042-02 50ug/Kg SOIL STD 8260	NA	7	1	STD22050	09/26/07 08:37
4	9M56990	WG251043-01 VBLK0926 BLANK 8260	NA	7	1		09/26/07 09:09
5	9M56991	WG251043-02 20ug/Kg LCS 8260	NA	7	1	STD22080	09/26/07 09:40
6	9M56992	WG251043-03 20ug/Kg LCSDUP 8260	NA	7	1	STD22080	09/26/07 10:11
7	9M56993	L0709594-18 8260	NA	7	1		09/26/07 10:42
8	9M56994	L0709594-20 5X 8260	NA	7	1		09/26/07 11:13
9	9M56995	L0709626-01 A 826-SPE	NA	7	1		09/26/07 11:43
10	9M56996	L0709626-02 A 826-SPE	NA	7	1		09/26/07 12:14
11	9M56997	L0709626-03 A 826-SPE	NA	7	1		09/26/07 12:45
12	9M56998	L0709626-04 A 826-SPE	NA	7	1		09/26/07 13:16
13	9M56999	L0709626-05 A 826-SPE	NA	7	1		09/26/07 13:47
14	9M57000	L0709626-06 MS A 826-SPE	NA	7	1	STD22080	09/26/07 14:23
15	9M57001	L0709626-07 MSD A 826-SPE	NA	7	1	STD22080	09/26/07 14:53
16	9M57002	SYSTEM BLANK	NA	7	1		09/26/07 15:24
17	9M57003	SYSTEM BLANK	NA	7	1		09/26/07 15:55
18	9M57004	SYSTEM BLANK	NA	7	1		09/26/07 16:26
19	9M57005	SYSTEM BLANK	NA	7	1		09/26/07 16:57
20	9M57006	SYSTEM BLANK	NA	7	1		09/26/07 17:28
21	9M57007	L0709624-01 8260	NA	7	1		09/26/07 17:58
22	9M57008	L0709594-20 8260	NA	7	1		09/26/07 18:29
23	9M57009	SYSTEM BLANK	NA	7	1		09/26/07 19:00
24	9M57010	SYSTEM BLANK	NA	7	1		09/26/07 19:30
25	9M57011	SYSTEM BLANK	NA	7	1		09/26/07 20:01
26	9M57012	SYSTEM BLANK	NA	7	1		09/26/07 20:32
27	9M57013	SYSTEM BLANK	NA	7	1		09/26/07 21:03
28	9M57014	SYSTEM CHECK	NA	7	1		09/26/07 21:34
29	9M57015	SYSTEM CHECK	NA	7	1		09/26/07 22:05

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				

Approved: October 04, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 092607
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21032

Internal Standard: STD21667 Surrogate Standard: STD22102
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251043

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M56994				
Do not report.				
10	X	100	Over Calibration Range	cis-1,2-DCE and PCE
File ID: 9M56996				
21				
File ID: 9M57007				
Do not report-carryover.				
22				
File ID: 9M57008				
Do not report-carryover.				

Approved: October 04, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 100107
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21097

Internal Standard: STD21833 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251532,WG251619

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M46046	SYSTEM BLANK	NA	1	1		10/01/07 08:53
2	11M46047	SYSTEM BLANK	NA	1	1		10/01/07 09:23
3	11M46048	SYSTEM BLANK	NA	1	1		10/01/07 10:00
4	11M46049	SYSTEM BLANK	NA	1	1		10/01/07 10:40
5	11M46050	WG251532-01 50NG BFB STD 8260	NA	1	1	STD21685	10/01/07 11:15
6	11M46051	WG251532-02 0.3ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 11:40
7	11M46052	WG251532-03 0.4 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 12:11
8	11M46053	WG251532-04 1 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 12:42
9	11M46054	WG251532-05 2 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 13:12
10	11M46055	WG251532-06 5 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 13:42
11	11M46056	WG251532-07 20 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 14:18
12	11M46057	WG251532-08 50 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 14:48
13	11M46058	WG251532-09 100 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 15:18
14	11M46059	WG251532-10 200 ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 15:48
15	11M46060	SYSTEM BLANK	NA	1	1		10/01/07 16:19
16	11M46061	SYSTEM BLANK	NA	1	1		10/01/07 16:49
17	11M46062	SYSTEM BLANK	NA	1	1		10/01/07 17:23
18	11M46063	WG251532-11 20ug/L ALT SOURCE 8260	NA	1	1	STD22188	10/01/07 18:05
19	11M46064	WG251618-01 50NG BFB STD 8260	NA	1	1	STD21685	10/01/07 18:38
42	11M46065	WG251618-02 50ug/L WATER STD 8260	NA	1	1	STD22186	10/01/07 19:02
20	11M46066	SYSTEM BLANK	NA	1	1		10/01/07 19:32
21	11M46067	WG251532-11 20ug/L ALT SOURCE	NA	1	1	STD22188	10/01/07 20:02
22	11M46068	WG251619-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 20:32
23	11M46069	WG251619-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 21:02
24	11M46070	WG251619-02 20ug/L LCS 8260	NA	1	1	STD22188	10/01/07 21:32
25	11M46071	WG251619-03 20ug/L LCSDUP 8260	NA	1	1	STD22188	10/01/07 22:02
26	11M46072	L0709662-09 B D1 5X 826-SPE	<2	1	5		10/01/07 22:33
27	11M46073	L0709662-10 B D1 10X 826-SPE	<2	1	10		10/01/07 23:03
28	11M46074	L0709662-11 B D1 10X 826-SPE	5	1	10		10/01/07 23:33
29	11M46075	L0709499-11 B D1 10X 826-SPE	<2	1	10		10/02/07 00:03
30	11M46076	L0709540-08 A 826-SPE	<2	1	1		10/02/07 00:33
31	11M46077	L0709542-09 A 826-SPE	<2	1	1		10/02/07 01:03
32	11M46078	L0709540-01 A 826-SPE	<2	1	1		10/02/07 01:34
33	11M46079	L0709540-02 A 826-SPE	<2	1	1		10/02/07 02:04

Approved: October 03, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 100107
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21097

Internal Standard: STD21833 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251532,WG251619

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
34	11M46080	L0709540-04 A 826-SPE	<2	1	1		10/02/07 02:34
35	11M46081	L0709540-05 A 826-SPE	<2	1	1		10/02/07 03:04
36	11M46082	L0709540-06 A 826-SPE	<2	1	1		10/02/07 03:34
37	11M46083	L0709540-07 A 826-SPE	<2	1	1		10/02/07 04:05
38	11M46084	L0709538-05 A 826-SPE	<2	1	1		10/02/07 04:35
39	11M46085	L0709538-07 A 826-SPE	<2	1	1		10/02/07 05:05
40	11M46086	L0709600-19 A 826-SPE	<2	1	1		10/02/07 05:35
41	11M46087	L0709600-21 A 826-SPE	<2	1	1		10/02/07 06:05

Comments

Seq.	Rerun	Dil.	Reason	Analytes
18				
File ID: 11M46063				
Do not report.				

Approved: October 03, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M69458	WG251483-01 BFB 50ng STD 8260	NA	1	1	STD21685	10/01/07 05:52
2	6M69459	WG251483-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 06:17
3	6M69460	WG251483-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 06:58
4	6M69461	WG251484-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 07:30
5	6M69462	WG251484-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 08:02
6	6M69463	WG251484-02 20ug/L LCS STD 8260	NA	1	1	STD22080	10/01/07 08:34
7	6M69464	WG251484-06 624 BLANK	NA	2	1		10/01/07 09:06
8	6M69465	L0709706-46 A 826-SPE	<2	1	1		10/01/07 09:38
9	6M69466	L0709497-02 A 826-SPE	<2	1	1		10/01/07 10:10
10	6M69467	L0709522-09 B 826-SPE	<2	1	1		10/01/07 10:42
11	6M69468	L0709522-03 B 826-SPE	=7	1	1		10/01/07 11:14
12	6M69469	L0709767-01 B 624-SPE	=7	2	1		10/01/07 11:46
13	6M69470	L0709538-02 A 826-SPE	<2	1	1		10/01/07 12:17
14	6M69471	L0709538-03 MS B 826-SPE	<2	1	1	STD22080	10/01/07 12:49
15	6M69472	L0709538-04 MSD A 826-SPE	<2	1	1	STD22080	10/01/07 13:21
16	6M69473	L0709508-01 A 2.5X 826-SPE	<2	1	2.5		10/01/07 13:53
17	6M69474	L0709669-06 A 624-SPE2	<2	2	1		10/01/07 14:25
18	6M69475	L0709541-01 A 826-SPE	<2	1	1		10/01/07 14:56
19	6M69476	L0709541-03 A 826-SPE	<2	1	1		10/01/07 15:28
20	6M69477	SYSTEM BLANK	NA	1	1		10/01/07 16:00
21	6M69478	WG251610-01 BFB 50ng STD 8260	NA	1	1	STD21685	10/01/07 16:31
22	6M69479	WG251610-02 50ug/L STD 8260	NA	1	1	STD22050	10/01/07 16:54
23	6M69480	WG251611-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 17:25
24	6M69481	WG251611-01 VBLK1001 BLANK 8260	NA	1	1		10/01/07 17:57
25	6M69482	WG251611-02 20ug/L LCS STD 8260	NA	1	1	STD22080	10/01/07 18:29
26	6M69483	WG251611-03 20ug/L LCSDUP STD 8260	NA	1	1	STD22080	10/01/07 19:00
27	6M69484	L0709541-01 B 50X 826-SPE D1	<2	1	50		10/01/07 19:32
28	6M69485	L0709541-03 B 10X 826-SPE D1	<2	1	10		10/01/07 20:04
29	6M69486	L0709508-01 B 826-SPE	<2	1	1		10/01/07 20:35
30	6M69487	L0709446-01 B 826-SPE	<2	1	1		10/01/07 21:07
31	6M69488	L0709520-04 A 826-SPLP	<2	18	1		10/01/07 21:39
32	6M69489	L0709626-08 A 826-SPE	<2	1	1		10/01/07 22:11
33	6M69490	L0709485-15 A 8260	<2	1	1		10/01/07 22:43
34	6M69491	L0709485-01 B 20X 8260	<2	1	20		10/01/07 23:15

Approved: October 05, 2007

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M69492	L0709485-03 A 50X 8260	<2	1	50		10/01/07 23:47
36	6M69493	L0709485-05 B 2.5X 8260	<2	1	2.5		10/02/07 00:19
37	6M69494	L0709485-07 B 8260	<2	1	1		10/02/07 00:51
38	6M69495	L0709485-09 B 2000X 8260	<2	1	2000		10/02/07 01:23
39	6M69496	L0709485-11 B 8260	<2	1	1		10/02/07 01:55
40	6M69497	L0709485-13 B 8260	<2	1	1		10/02/07 02:27
41	6M69498	L0709501-23 A 826-SPE	<2	1	1		10/02/07 02:59
42	6M69499	L0709501-19 A 826-SPE	<2	1	1		10/02/07 03:31
43	6M69500	L0709501-15 A 826-SPE	<2	1	1		10/02/07 04:04
44	6M69501	SYSTEM BLANK	NA	1	1		10/02/07 04:36
45	6M69502	SYSTEM BLANK	NA	1	1		10/02/07 05:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X		Check Standard Failure	
File ID: 6M69459				
	DNR			
4	X		Carry-over contamination	
File ID: 6M69461				
	DNR			
16	X	1	Analyzed too dilute	
File ID: 6M69473				
	DNR			
18	X	50	Over Calibration Range	VC, cis-1,2-DCE, TCE
File ID: 6M69475				
19	X	10	Over Calibration Range	VC, cis-1,2-DCE, TCE
File ID: 6M69476				
23	X		Carry-over contamination	
File ID: 6M69480				
	DNR			
35	X	200	Over Calibration Range	CB
File ID: 6M69492				
36	X	50	Over Calibration Range	CB

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS6 Dataset: 100107
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 21122

Internal Standard: STD21729 Surrogate Standard: STD22082
CCV: STD22050 LCS: STD22080 MS/MSD: STD22080

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251484;WG251611

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 6M69493				
37	X	2	Over Calibration Range	CB
File ID: 6M69494				
38	X	1000	Analyzed too dilute	
File ID: 6M69495				
	DNR			
39	X	10	Over Calibration Range	Ben., CB
File ID: 6M69496				
40	X	10	Over Calibration Range	Ben., CB
File ID: 6M69497				
41	X		Carry-over contamination	
File ID: 6M69498				
	DNR			

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 100307
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21142

Internal Standard: STD21833 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251776

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
40	11M46137	WG251775-01 50NG BFB STD 8260	NA	1	1	STD21685	10/03/07 07:43
1	11M46138	WG251775-01 50NG BFB STD 8260	NA	1	1	STD21685	10/03/07 07:55
2	11M46139	WG251775-02 50ug/L WATER STD 8260	NA	1	1	STD22186	10/03/07 08:18
3	11M46140	WG251776-01 VBLK1003 BLANK 8260	NA	7	50		10/03/07 08:48
4	11M46141	WG251776-02 20ug/L EXT LCS 8260	NA	7	50		10/03/07 09:18
5	11M46142	L0709626-02 C M1 100X 826-SPE	NA	7	50		10/03/07 09:49
6	11M46143	L0709501-13 500X 826-SPE 1.04g/10mL	NA	11	50		10/03/07 10:19
7	11M46144	L0709501-14 500X 826-SPE 1.04g/10mL	NA	11	50		10/03/07 10:50
8	11M46145	L0709501-13 500X 826-SPE 1.04g/10mL	NA	11	50		10/03/07 11:20
9	11M46146	L0709501-14 500X 826-SPE 1.00g/10mL	NA	11	50		10/03/07 11:50
10	11M46147	L0709594-17 M1 100X 8260 5.38g/10mL	NA	7	50		10/03/07 12:20
11	11M46148	L0709594-17 DUP 100X 8260 4.84g/10mL	NA	7	50		10/03/07 13:25
12	11M46149	L0709594-19 M1 100X 8260 4.81g/10mL	NA	7	50		10/03/07 13:55
13	11M46150	L0709668-01 1000X 826-A9 4.99g/10mL	NA	7	500		10/03/07 14:25
14	11M46151	L0709668-02 M2 1000X 826-A9 5.32g/10m	NA	7	500		10/03/07 14:55
15	11M46152	L0709774-01 C 5000X 8260 7.21g/5mL	NA	7	5000		10/03/07 15:25
16	11M46153	L0709594-19 A1 100X 8260 4.83g/10mL	NA	7	50		10/03/07 15:55
17	11M46154	L0709668-03 1000X 826-A9 5.07g/10mL	NA	7	500		10/03/07 16:25
18	11M46155	L0709668-04 M2 1000X 826-A9 4.95g/10m	NA	7	500		10/03/07 16:55
19	11M46156	L0709668-05 1000X 826-A9 4.84g/10mL	NA	7	500		10/03/07 17:26
20	11M46157	L0709774-02 C 5000X 8260 7.58g/5mL	NA	7	5000		10/03/07 17:56
21	11M46158	L0709774-03 C 5000X 8260 5.31g/5mL	NA	7	5000		10/03/07 18:26
22	11M46159	L0709774-04 C 5000X 8260 6.16g/5mL	NA	7	5000		10/03/07 18:56
23	11M46160	L0709774-05 C 2000X 8260 9.82/20mL	NA	10	500		10/03/07 19:26
24	11M46161	WG251877-01 50NG BFB STD 8260	NA	1	1	STD21685	10/03/07 19:53
25	11M46162	WG251877-02 50ug/L WATER STD 8260	NA	1	1	STD22186	10/03/07 20:18
26	11M46163	WG251877-02 50ug/L WATER STD 8260	NA	1	1	STD22186	10/03/07 20:49
27	11M46164	BLANK	NA	1	1		10/03/07 21:19
28	11M46165	BLANK	NA	1	1		10/03/07 21:48
29	11M46166	BLANK	NA	1	1		10/03/07 22:17
30	11M46167	BLANK	NA	1	1		10/03/07 22:47
31	11M46168	BLANK	NA	1	1		10/03/07 23:16
32	11M46169	BLANK	NA	1	1		10/03/07 23:46
33	11M46170	BLANK	NA	1	1		10/04/07 00:15

Approved: October 10, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 100307
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21142

Internal Standard: STD21833 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251776

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
34	11M46171	BLANK	NA	1	1		10/04/07 00:45
35	11M46172	BLANK	NA	1	1		10/04/07 01:15
36	11M46173	BLANK	NA	1	1		10/04/07 01:44
37	11M46174	BLANK	NA	1	1		10/04/07 02:14
38	11M46175	BLANK	NA	1	1		10/04/07 02:43
39	11M46176	BLANK	NA	1	1		10/04/07 03:13

Comments

Seq.	Rerun	Dil.	Reason	Analytes
40				
File ID: 11M46137				
RR, BFB failed.				
6				
File ID: 11M46143				
Do not report-SS left on.				
7				
File ID: 11M46144				
Do not report-SS left on.				
12	X	100	Surrogate standard failure	
File ID: 11M46149				
13				
File ID: 11M46150				
Do not report.				
17				
File ID: 11M46154				
Do not report.				
19				
File ID: 11M46156				
Do not report.				
21	X	2500	Analyzed too dilute	
File ID: 11M46158				
Do not report.				
22	X	2500	Analyzed too dilute	
File ID: 11M46159				
Do not report.				

Approved: October 10, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 100307
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21142

Internal Standard: STD21833 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG251776

Comments

Seq.	Rerun	Dil.	Reason	Analytes
23	X	200	Analyzed too dilute	
File ID: 11M46160				
Do not report.				

Approved: October 10, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 101007
Analyst1: MES Analyst2: CMS
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21258

Internal Standard: STD22304 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG252433;WG252521

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M46436	WG252421-01 50NG BFB STD 8260	NA	1	1	STD22252	10/10/07 07:56
2	11M46437	WG252421-02 50ug/L WATER STD 8260	NA	1	1	STD22186	10/10/07 08:18
3	11M46438	WG252433-01 EXT VBLK1010 BLANK 826	NA	7	50		10/10/07 08:54
4	11M46439	WG252423-01 VBLK1010 BLANK 8260	NA	1	1		10/10/07 09:25
5	11M46440	WG252433-02 20ug/L EXT LCS 8260	NA	7	50	STD22188	10/10/07 09:55
6	11M46441	WG252423-02 20ug/L LCS 8260	NA	1	1	STD22188	10/10/07 10:25
7	11M46442	L0709775-04 1000X 8260 A1 6.39g/5mL	NA	7	1000		10/10/07 10:55
8	11M46443	L0709775-01 10000X 8260 M1 6.14g/5mL	NA	7	10000		10/10/07 11:26
9	11M46444	L0710213-02 100X 826-SPE M1 4.67g/10m	NA	7	50		10/10/07 11:56
10	11M46445	WG252433-04 L0710213-02 DUP 100X 826	NA	7	50		10/10/07 12:26
11	11M46446	L0709626-03 C 100X 826-SPE 6.56g/10m	NA	7	50		10/10/07 12:56
12	11M46447	L0710626-05 C 100X 826-SPE 5.93g/10m	NA	7	50		10/10/07 13:26
13	11M46448	L0710212-01 10000X 8260 5.04g/10mL	NA	7	5000		10/10/07 13:56
14	11M46449	SYSTEM BLANK	NA	1	1		10/10/07 14:26
15	11M46450	L0710212-02 10000X 8260 4.78g/10mL	NA	7	5000		10/10/07 14:58
16	11M46451	SYSTEM BLANK	NA	1	1		10/10/07 15:29
17	11M46452	L0710212-01 5000X 8260 5.04g/10mL	NA	7	2500		10/10/07 15:59
18	11M46453	L0710212-02 5000X 8260 4.78g/10mL	NA	7	2500		10/10/07 16:29
19	11M46454	L0710279-01 500X 8260 0.98g/10mL	NA	11	50		10/10/07 16:59
20	11M46455	L0709626-03 C 10000X 826-SPE M2 6.56g	NA	7	5000		10/10/07 17:29
21	11M46456	L0709626-05 C 200X 826-SPE M1 5.93g/10	NA	7	100		10/10/07 17:59
22	11M46457	WG252520-01 BFB 50ng STD 8260	NA	1	1	STD22252	10/10/07 18:38
23	11M46458	WG252520-01 BFB 50ng STD 8260	NA	1	1	STD22252	10/10/07 18:50
24	11M46459	WG252520-01 BFB 50ng STD 8260	NA	1	1	STD22252	10/10/07 19:19
25	11M46460	WG252520-02 50ug/L STD 8260	NA	1	1	STD22380	10/10/07 19:42
26	11M46461	WG252521-01 VBLK1010 BLANK 8260	NA	1	1		10/10/07 20:13
27	11M46462	WG252521-01 VBLK1010 BLANK 8260	NA	1	1		10/10/07 20:43
28	11M46463	WG252521-02 20ug/L LCS STD 8260	NA	1	1	STD22379	10/10/07 21:13
29	11M46464	WG252521-03 20ug/L LCSDUP STD 8260	NA	1	1	STD22379	10/10/07 21:43
30	11M46465	L0710129-11 A 826-LOW	<2	1	1		10/10/07 22:13
31	11M46466	L0710129-12 A 826-LOW	<2	1	1		10/10/07 22:44
32	11M46467	L0710069-03 A 826-SPE	<2	1	1		10/10/07 23:14
33	11M46468	L0710069-01 B 826-SPE	<2	1	1		10/10/07 23:45
34	11M46469	L0710069-04 A 826-SPE	<2	1	1		10/11/07 00:15

Approved: October 12, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 101007
Analyst1: MES Analyst2: CMS
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21258

Internal Standard: STD22304 Surrogate Standard: STD22023
CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG252433;WG252521

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	11M46470	L0710069-05 A 826-SPE	<2	1	1		10/11/07 00:45
36	11M46471	L0710069-06 A 826-SPE	<2	1	1		10/11/07 01:16
37	11M46472	L0710069-07 A 826-SPE	<2	1	1		10/11/07 01:46
38	11M46473	L0710069-08 A 826-SPE	<2	1	1		10/11/07 02:17
39	11M46474	L0710069-09 A 826-SPE	<2	1	1		10/11/07 02:47
40	11M46475	L0710069-10 A 826-SPE	<2	1	1		10/11/07 03:18
41	11M46476	L0710069-11 A 826-SPE	<2	1	1		10/11/07 03:48
42	11M46477	L0710102-01 A 826-SPE	<2	1	1		10/11/07 04:18
43	11M46478	L0710103-01 A 826-SPE	=5	1	1		10/11/07 04:49
44	11M46479	L0710104-01 A 826-SPE	<2	1	1		10/11/07 05:19

Comments

Seq.	Rerun	Dil.	Reason	Analytes
11	X	10000	Over Calibration Range	CB, 1,3-DCB, 1,4-DCB, 1,2-DCB, 1,2,4-TCB
File ID: 11M46446				
12	X	200	Carry-over contamination	
File ID: 11M46447				
	DNR			
13	X		Carry-over contamination	
File ID: 11M46448				
	DNR			
15	X		Carry-over contamination	
File ID: 11M46450				
	DNR			
22	X			
File ID: 11M46457				
	Tune failed/DNR			
23	X			
File ID: 11M46458				
	Tune failed/DNR-Baked system out after injection			
26	X		Carry-over contamination	
File ID: 11M46461				
	DNR			
30	X	5	Over Calibration Range	CIS-1,2-DCE
File ID: 11M46465				

Approved: October 12, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS11 Dataset: 101007

Analyst1: MES Analyst2: CMS

Method: 8260B SOP: MSV01 Rev: 10

Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21258

Internal Standard: STD22304 Surrogate Standard: STD22023

CCV: STD22186 LCS: STD22188 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG252433;WG252521

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Approved: October 12, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 101007
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21246

Internal Standard: STD22218 Surrogate Standard: STD22102
CCV: STD22380 LCS: STD22379 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG252430

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M57285	SYSTEM CHECK	NA	7	1		10/10/07 08:33
2	9M57286	WG252429-01 50NG BFB STD 8260	NA	7	1	STD22252	10/10/07 09:21
3	9M57287	WG252429-02 50ug/Kg SOIL STD 8260	NA	7	1	STD22380	10/10/07 09:45
4	9M57288	WG252430-01 VBLK1010 BLANK 8260	NA	7	1		10/10/07 10:16
5	9M57289	WG252430-02 20ug/Kg LCS 8260	NA	7	1	STD22379	10/10/07 10:47
6	9M57290	WG252430-03 20ug/Kg LCSDUP 8260	NA	7	1	STD22379	10/10/07 11:18
7	9M57291	L0710188-16 826-BETX	NA	7	1		10/10/07 11:49
8	9M57292	L0710188-17 826-BETX	NA	7	1		10/10/07 12:20
9	9M57293	L0709626-04 B 826-SPE	NA	7	1		10/10/07 12:50
10	9M57294	L0710188-18 826-BETX	NA	7	1		10/10/07 13:21
11	9M57295	L0710188-19 826-BETX	NA	7	1		10/10/07 13:52
12	9M57296	L0710188-20 826-BETX	NA	7	1		10/10/07 14:22
13	9M57297	L0710188-21 826-BETX	NA	7	1		10/10/07 14:54
14	9M57298	L0710188-22 826-BETX	NA	7	1		10/10/07 15:25
15	9M57299	L0710188-23 826-BETX	NA	7	1		10/10/07 15:56
16	9M57300	L0710188-24 826-BETX	NA	7	1		10/10/07 16:27
17	9M57301	L0710195-01 8260A	NA	7	1		10/10/07 16:58
18	9M57302	L0710195-02 8260A	NA	7	1		10/10/07 17:29
19	9M57303	L0710222-01 A 826-SPE	NA	7	1		10/10/07 18:00
20	9M57304	L0710222-02 A 826-SPE	NA	7	1		10/10/07 18:31
21	9M57305	L0710222-03 A 826-SPE	NA	7	1		10/10/07 19:01
22	9M57306	L0710222-04 A 826-SPE	NA	7	1		10/10/07 19:32
23	9M57307	L0710222-05 A 826-SPE	NA	7	1		10/10/07 20:03
24	9M57308	L0710222-06 A 826-SPE	NA	7	1		10/10/07 20:34
25	9M57309	L0710222-07 A 826-SPE	NA	7	1		10/10/07 21:05
26	9M57310	SYSTEM BLANK	NA	7	1		10/10/07 21:36
27	9M57311	SYSTEM CHECK	NA	7	1		10/10/07 22:07
28	9M57312	SYSTEM CHECK	NA	7	1		10/10/07 22:39

Comments

Seq.	Rerun	Dil.	Reason	Analytes
15 File ID: 9M57299	X	5	Internal standard and surrogate standard failure	

Approved: October 15, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS9 Dataset: 101007
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 21246

Internal Standard: STD22218 Surrogate Standard: STD22102
CCV: STD22380 LCS: STD22379 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG252430

Comments

Seq.	Rerun	Dil.	Reason	Analytes
16	X	5	Internal standard and surrogate standard failure	
File ID: 9M57300				
17	X	100	Over Calibration Range	vc and cis-1,2-DCE
File ID: 9M57301				
18	X	1	Carry-over contamination	
File ID: 9M57302				
	Do not report.			
19	X	1	Internal standard failure	
File ID: 9M57303				
20	X	1	Internal standard failure	
File ID: 9M57304				
23	X	1	Internal standard failure	
File ID: 9M57307				
24	X	1	Internal standard failure	
File ID: 9M57308				
25	X	1	Internal standard failure	
File ID: 9M57309				

Approved: October 15, 2007

KEMRON Environmental Services
Data Checklist

Date: 14-AUG-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 17758
Analytical Workgroups: WG247666,WG247667

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
15-AUG-2007

Secondary Reviewer:
16-AUG-2007

Generated: AUG-17-2007 09:11:11

KEMRON Environmental Services
Data Checklist

Date: 26-SEP-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 18460
Analytical Workgroups: WG251043

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-SEP-2007

Secondary Reviewer:
04-OCT-2007

Generated: OCT-04-2007 08:42:09

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 18538
Analytical Workgroups: WG251532,WG251619

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
02-OCT-2007

Secondary Reviewer:
03-OCT-2007

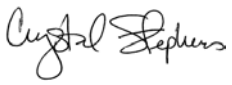
Generated: OCT-03-2007 10:10:17

KEMRON Environmental Services
Data Checklist

Date: 01-OCT-2007
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 18577
Analytical Workgroups: WG251484;WG251611

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
04-OCT-2007



Secondary Reviewer:
05-OCT-2007

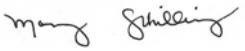
Generated: OCT-05-2007 09:00:53

KEMRON Environmental Services
Data Checklist

Date: 03-OCT-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 18601
Analytical Workgroups: WG251776

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
05-OCT-2007



Secondary Reviewer:
10-OCT-2007

Generated: OCT-10-2007 10:24:07

KEMRON Environmental Services
Data Checklist

Date: 10-OCT-2007
Analyst: MES
Analyst: CMS
Method: 8260
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 18687
Analytical Workgroups: WG252433;WG252521

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
10-OCT-2007

Secondary Reviewer:
12-OCT-2007

Generated: OCT-12-2007 16:10:02

KEMRON Environmental Services
Data Checklist

Date: 10-OCT-2007
Analyst: MES
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 18731
Analytical Workgroups: WG252430

BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
12-OCT-2007

Secondary Reviewer:
15-OCT-2007

Generated: OCT-15-2007 16:22:09

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG252430

Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0085-SO-092107	09/21/07	09/24/07	10/10/07	14	18.9	10/10/07	14	18.9	*ANAL

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG251611
Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	09/21/07	09/24/07	10/01/07	14	10.9	10/01/07	14	10.9	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

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Report generated 10/16/2007 08:54

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG252433
Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0084-SO-092107	09/21/07	09/24/07	10/10/07	14	19.1	10/10/07	14	19.1	*ANAL
0086-SO-092107	09/21/07	09/24/07	10/10/07	14	19.1	10/10/07	14	19.1	*ANAL

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON FORMS - Modified 11/20/2006
Version 1.5 PDF File ID: 900145
Report generated 10/16/2007 08:54

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG251776

Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0083-SO-092107	09/21/07	09/24/07	10/03/07	14	11.9	10/03/07	14	11.9	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

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Version 1.5 PDF File ID: 900145
Report generated 10/16/2007 08:54

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG251043

Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0082-SO-092107	09/21/07	09/24/07	09/26/07	14	5.03	09/26/07	14	5.03	
0086-SO-092107	09/21/07	09/24/07	09/26/07	14	4.96	09/26/07	14	4.96	
0084-SO-092107	09/21/07	09/24/07	09/26/07	14	4.95	09/26/07	14	4.95	
0086-SO-092107/MSD	09/21/07	09/24/07	09/26/07	14	5.00	09/26/07	14	5.00	
0083-SO-092107	09/21/07	09/24/07	09/26/07	14	5.02	09/26/07	14	5.02	
0086-SO-092107/MS	09/21/07	09/24/07	09/26/07	14	4.98	09/26/07	14	4.98	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**

***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626
Instrument Id: HPMS9
Workgroup (AAB#): WG251043

Method: 8260
CAL ID: HPMS9-14-AUG-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709626-01	1.00	01	85.5	104	94.9	104
L0709626-02	1.00	01	77.3	95.1	90.5	96.4
L0709626-03	1.00	01	89.8	106	106	119
L0709626-05	1.00	01	79.6	97.0	137	103
L0709626-06	1.00	01	86.5	101	161	115
L0709626-07	1.00	01	86.4	106	197	116
WG251043-01	1.00	01	96.0	112	97.9	107
WG251043-02	1.00	01	93.0	107	93.6	103
WG251043-03	1.00	01	86.9	101	90.2	98.8

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 886553
Report generated 10/16/2007 08:54

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626
Instrument Id: HPMS11
Workgroup (AAB#): WG252433

Method: 8260
CAL ID: HPMS11-01-OCT-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709626-03	5000	DL02	83.7	84.2	85.7	90.1
L0709626-05	100	DL01	82.4	83.5	86.2	87.2
WG252433-01	50.0	DL01	87.8	88.2	85.2	88.8
WG252433-02	50.0	DL01	90.2	89.4	89.0	89.5

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

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KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626
Instrument Id: HPMS6
Workgroup (AAB#): WG251611

Method: 8260
CAL ID: HPMS6-12-SEP-07
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L0709626-08	1.00	01	96.1	95.8	102	98.5
WG251611-01	1.00	01	92.9	93.9	104	97.5
WG251611-02	1.00	01	94.7	94.7	99.9	99.2
WG251611-03	1.00	01	91.6	93.2	100	99.6

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
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Report generated 10/16/2007 08:54

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626
Instrument Id: HPMS9
Workgroup (AAB#): WG252430

Method: 8260
CAL ID: HPMS9-14-AUG-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709626-04	1.00	02	91.6	106	91.4	99.0
WG252430-01	1.00	01	91.6	107	92.7	102
WG252430-02	1.00	01	94.7	114	95.6	107
WG252430-03	1.00	01	99.5	113	96.6	106

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 886553
Report generated 10/16/2007 08:54

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626 Method: 8260

Instrument Id: HPMS11 CAL ID: HPMS11-01-OCT-07

Workgroup (AAB#): WG251776 Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L0709626-02	50.0	DL01	88.8	89.7	90.1	92.1
WG251776-01	50.0	DL01	90.6	91.6	93.1	92.9
WG251776-02	50.0	DL01	90.1	93.7	89.9	90.2

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

KEMRON FORMS - Modified 09/27/2006
Version 1.5 PDF File ID: 886553
Report generated 10/16/2007 08:54

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251776
Blank File ID:	11M46140	**Blank Sample ID:**	WG251776-01
Prep Date:	10/03/07 08:48	**Instrument ID:**	HPMS11
Analyzed Date:	10/03/07 08:48	**Method:**	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251776-02	11M46141	10/03/07 09:18	DL01
0083-SO-092107	L0709626-02	11M46142	10/03/07 09:49	DL01
DUP	WG251776-04	11M46148	10/03/07 13:25	DL01

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG252433
Blank File ID:	11M46438	**Blank Sample ID:**	WG252433-01
Prep Date:	10/10/07 08:54	**Instrument ID:**	HPMS11
Analyzed Date:	10/10/07 08:54	**Method:**	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG252433-02	11M46440	10/10/07 09:55	DL01
DUP	WG252433-04	11M46445	10/10/07 12:26	DL01
0084-SO-092107	L0709626-03	11M46455	10/10/07 17:29	DL02
0086-SO-092107	L0709626-05	11M46456	10/10/07 17:59	DL01

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251611
Blank File ID:	6M69481	**Blank Sample ID:**	WG251611-01
Prep Date:	10/01/07 17:57	**Instrument ID:**	HPMS6
Analyzed Date:	10/01/07 17:57	**Method:**	8260B
Analyst:	CMS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251611-02	6M69482	10/01/07 18:29	01
LCS2	WG251611-03	6M69483	10/01/07 19:00	01
TRIP BLANK	L0709626-08	6M69489	10/01/07 22:11	01

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251043
Blank File ID:	9M56990	**Blank Sample ID:**	WG251043-01
Prep Date:	09/26/07 09:09	**Instrument ID:**	HPMS9
Analyzed Date:	09/26/07 09:09	**Method:**	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251043-02	9M56991	09/26/07 09:40	01
LCS2	WG251043-03	9M56992	09/26/07 10:11	01
0082-SO-092107	L0709626-01	9M56995	09/26/07 11:43	01
0083-SO-092107	L0709626-02	9M56996	09/26/07 12:14	01
0084-SO-092107	L0709626-03	9M56997	09/26/07 12:45	01
0086-SO-092107	L0709626-05	9M56999	09/26/07 13:47	01
0086-SO-092107/MS	L0709626-06	9M57000	09/26/07 14:23	01
0086-SO-092107/MSD	L0709626-07	9M57001	09/26/07 14:53	01

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG252430
Blank File ID:	9M57288	**Blank Sample ID:**	WG252430-01
Prep Date:	10/10/07 10:16	**Instrument ID:**	HPMS9
Analyzed Date:	10/10/07 10:16	**Method:**	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG252430-02	9M57289	10/10/07 10:47	01
LCS2	WG252430-03	9M57290	10/10/07 11:18	01
0085-SO-092107	L0709626-04	9M57293	10/10/07 12:50	02

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/03/07 08:48 Sample ID: WG251776-01
Instrument ID: HPMS11 Run Date: 10/03/07 08:48 Prep Method: 5030B
File ID: 11M46140 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251776 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS11-01-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	50.0	500	500	50	U
1,1,2,2-Tetrachloroethane	50.0	500	500	50	U
1,1,2-Trichloroethane	50.0	500	500	50	U
1,1-Dichloroethane	100	500	500	50	U
1,1-Dichloroethene	50.0	500	500	50	U
1,2,4-Trichlorobenzene	50.0	500	500	50	U
1,2-Dichlorobenzene	50.0	500	500	50	U
1,2-Dichloroethane	50.0	500	500	50	U
1,2-Dichloropropane	50.0	500	500	50	U
1,3-Dichlorobenzene	50.0	500	500	50	U
1,4-Dichlorobenzene	50.0	500	500	50	U
1,4-Dioxane	5000	170000	170000	50	U
2-Butanone	250	2500	2500	50	U
2-Hexanone	250	1000	1000	50	U
4-Methyl-2-pentanone	250	1000	1000	50	U
Acetone	500	10000	10000	50	U
Acrylonitrile	250	10000	10000	50	U
Benzene	50.0	500	500	50	U
Bromodichloromethane	50.0	500	500	50	U
Bromoform	50.0	500	500	50	U
Bromomethane	100	1000	1000	50	U
Carbon disulfide	50.0	500	500	50	U
Carbon tetrachloride	50.0	500	500	50	U
Chlorobenzene	50.0	500	500	50	U
Dibromochloromethane	50.0	500	500	50	U
Chloroethane	100	1000	1000	50	U
Chloroform	50.0	500	500	50	U
Chloromethane	200	1000	1000	50	U
cis-1,2-Dichloroethene	50.0	500	500	50	U
cis-1,3-Dichloropropene	50.0	500	500	50	U
Ethylbenzene	50.0	500	500	50	U
Methylene chloride	100	500	500	50	U
Methyltert-butyl ether	50.0	1000	1000	50	U
Styrene	50.0	500	500	50	U
Tetrachloroethene	50.0	500	500	50	U
Toluene	50.0	500	500	50	U
trans-1,2-Dichloroethene	50.0	500	500	50	U
trans-1,3-Dichloropropene	50.0	500	500	50	U
Trichloroethene	50.0	500	500	50	U
Vinyl acetate	100	1000	1000	50	U
Vinyl chloride	100	1000	1000	50	U
Xylenes	50.0	1000	1000	50	U

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 906104
Report generated 10/16/2007 08:54

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/03/07 08:48 Sample ID: WG251776-01
Instrument ID: HPMS11 Run Date: 10/03/07 08:48 Prep Method: 5030B
File ID: 11M46140 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251776 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS11-01-OCT-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	90.6	70 - 121	PASS
4-Bromofluorobenzene	93.1	59 - 113	PASS
Dibromofluoromethane	91.6	65 - 135	PASS
Toluene-d8	92.9	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 906104
Report generated 10/16/2007 08:54

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/10/07 08:54 Sample ID: WG252433-01
Instrument ID: HPMS11 Run Date: 10/10/07 08:54 Prep Method: 5030B
File ID: 11M46438 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252433 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS11-01-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	50.0	500	500	50	U
1,1,2,2-Tetrachloroethane	50.0	500	500	50	U
1,1,2-Trichloroethane	50.0	500	500	50	U
1,1-Dichloroethane	100	500	500	50	U
1,1-Dichloroethene	50.0	500	500	50	U
1,2,4-Trichlorobenzene	50.0	500	500	50	U
1,2-Dichlorobenzene	50.0	500	500	50	U
1,2-Dichloroethane	50.0	500	500	50	U
1,2-Dichloropropane	50.0	500	500	50	U
1,3-Dichlorobenzene	50.0	500	500	50	U
1,4-Dichlorobenzene	50.0	500	500	50	U
1,4-Dioxane	5000	170000	170000	50	U
2-Butanone	250	2500	2500	50	U
2-Hexanone	250	1000	1000	50	U
4-Methyl-2-pentanone	250	1000	1000	50	U
Acetone	500	10000	10000	50	U
Acrylonitrile	250	10000	10000	50	U
Benzene	50.0	500	500	50	U
Bromodichloromethane	50.0	500	500	50	U
Bromoform	50.0	500	500	50	U
Bromomethane	100	1000	1000	50	U
Carbon disulfide	50.0	500	500	50	U
Carbon tetrachloride	50.0	500	500	50	U
Chlorobenzene	50.0	500	500	50	U
Dibromochloromethane	50.0	500	500	50	U
Chloroethane	100	1000	1000	50	U
Chloroform	50.0	500	500	50	U
Chloromethane	200	1000	1000	50	U
cis-1,2-Dichloroethene	50.0	500	500	50	U
cis-1,3-Dichloropropene	50.0	500	500	50	U
Ethylbenzene	50.0	500	500	50	U
Methylene chloride	100	500	500	50	U
Methyltert-butyl ether	50.0	1000	1000	50	U
Styrene	50.0	500	500	50	U
Tetrachloroethene	50.0	500	500	50	U
Toluene	50.0	500	500	50	U
trans-1,2-Dichloroethene	50.0	500	500	50	U
trans-1,3-Dichloropropene	50.0	500	500	50	U
Trichloroethene	50.0	500	500	50	U
Vinyl acetate	100	1000	1000	50	U
Vinyl chloride	100	1000	1000	50	U
Xylenes	50.0	1000	1000	50	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/10/07 08:54 Sample ID: WG252433-01
Instrument ID: HPMS11 Run Date: 10/10/07 08:54 Prep Method: 5030B
File ID: 11M46438 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252433 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS11-01-OCT-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	87.8	70 - 121	PASS
4-Bromofluorobenzene	85.2	59 - 113	PASS
Dibromofluoromethane	88.2	65 - 135	PASS
Toluene-d8	88.8	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/01/07 17:57 Sample ID: WG251611-01
Instrument ID: HPMS6 Run Date: 10/01/07 17:57 Prep Method: 5030B
File ID: 6M69481 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251611 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-12-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

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METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/01/07 17:57 Sample ID: WG251611-01
Instrument ID: HPMS6 Run Date: 10/01/07 17:57 Prep Method: 5030B
File ID: 6M69481 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG251611 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-12-SEP-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	92.9	76 - 114	PASS
4-Bromofluorobenzene	104	86 - 115	PASS
Dibromofluoromethane	93.9	85 - 115	PASS
Toluene-d8	97.5	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 09/26/07 09:09 Sample ID: WG251043-01
Instrument ID: HPMS9 Run Date: 09/26/07 09:09 Prep Method: 5030B
File ID: 9M56990 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251043 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

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METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 09/26/07 09:09 Sample ID: WG251043-01
Instrument ID: HPMS9 Run Date: 09/26/07 09:09 Prep Method: 5030B
File ID: 9M56990 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251043 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	96.0	70 - 121	PASS
4-Bromofluorobenzene	97.9	59 - 113	PASS
Dibromofluoromethane	112	65 - 135	PASS
Toluene-d8	107	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/10/07 10:16 Sample ID: WG252430-01
Instrument ID: HPMS9 Run Date: 10/10/07 10:16 Prep Method: 5030A
File ID: 9M57288 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252430 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

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METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/10/07 10:16 Sample ID: WG252430-01
Instrument ID: HPMS9 Run Date: 10/10/07 10:16 Prep Method: 5030A
File ID: 9M57288 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252430 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-14-AUG-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	91.6	70 - 121	PASS
4-Bromofluorobenzene	92.7	59 - 113	PASS
Dibromofluoromethane	107	65 - 135	PASS
Toluene-d8	102	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251776-02
Instrument ID: HPMS11 Run Time: 09:18 Prep Method: 5030B
File ID: 11M46141 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251776 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD22188 Cal ID: HPMS11-01-OCT-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	2000	1900	95.2	68 - 130	
1,1,2,2-Tetrachloroethane	2000	2000	99.8	59 - 140	
1,1,2-Trichloroethane	2000	2050	102	62 - 127	
1,1-Dichloroethane	2000	1940	97.2	73 - 125	
1,1-Dichloroethene	2000	1660	83.0	65 - 136	
1,2,4-Trichlorobenzene	2000	2020	101	65 - 131	
1,2-Dichlorobenzene	2000	1980	99.0	74 - 120	
1,2-Dichloroethane	2000	1910	95.6	72 - 137	
1,2-Dichloropropane	2000	1960	98.1	71 - 120	
1,3-Dichlorobenzene	2000	1940	97.0	72 - 124	
1,4-Dichlorobenzene	2000	1930	96.5	72 - 125	
2-Butanone	2000	2260	113	40 - 135	
2-Hexanone	2000	2000	100	50 - 140	
4-Methyl-2-pentanone	2000	2020	101	50 - 140	
Acetone	2000	2120	106	40 - 141	
Acrylonitrile	2000	1990	99.7	60 - 140	
Benzene	2000	1920	96.0	73 - 126	
Bromodichloromethane	2000	2050	102	72 - 128	
Bromoform	2000	1960	97.9	60 - 137	
Bromomethane	2000	1350	67.4	45 - 141	
Carbon disulfide	2000	1430	71.3	65 - 135	
Carbon tetrachloride	2000	1640	82.0	67 - 133	
Chlorobenzene	2000	1890	94.7	75 - 123	
Dibromochloromethane	2000	2020	101	66 - 130	
Chloroethane	2000	1920	95.9	41 - 141	
Chloroform	2000	1980	98.8	72 - 124	
Chloromethane	2000	1730	86.4	51 - 129	
cis-1,2-Dichloroethene	2000	2000	99.8	67 - 125	
cis-1,3-Dichloropropene	2000	1990	99.7	72 - 126	
Ethylbenzene	2000	1950	97.6	74 - 127	
Methylene chloride	2000	1780	89.1	63 - 137	
Methyltert-butyl ether	2000	1890	94.3	50 - 135	
Styrene	2000	1900	95.0	74 - 128	
Tetrachloroethene	2000	1640	82.1	67 - 139	
Toluene	2000	1850	92.5	71 - 127	
trans-1,2-Dichloroethene	2000	1850	92.3	66 - 134	
trans-1,3-Dichloropropene	2000	1820	91.2	65 - 127	
Trichloroethene	2000	1910	95.7	77 - 124	
Vinyl acetate	2000	901	45.1	55 - 130	*
Vinyl chloride	2000	1400	70.1	58 - 126	
Xylenes	6000	5840	97.3	75 - 130	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251776-02
Instrument ID: HPMS11 Run Time: 09:18 Prep Method: 5030B
File ID: 11M46141 Analyst: MES Method: 8260B
Workgroup (AAB#): WG251776 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD22188 Cal ID: HPMS11-01-OCT-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	90.1	70 - 121	PASS
4-Bromofluorobenzene	89.9	59 - 113	PASS
Dibromofluoromethane	93.7	65 - 135	PASS
Toluene-d8	90.2	86 - 138	PASS

* FAILS %REC LIMIT

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252433-02
Instrument ID: HPMS11 Run Time: 09:55 Prep Method: 5030B
File ID: 11M46440 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252433 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD22188 Cal ID: HPMS11-01-OCT-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	2000	1770	88.6	68 - 130	
1,1,2,2-Tetrachloroethane	2000	2110	105	59 - 140	
1,1,2-Trichloroethane	2000	2040	102	62 - 127	
1,1-Dichloroethane	2000	1880	93.9	73 - 125	
1,1-Dichloroethene	2000	1560	78.1	65 - 136	
1,2,4-Trichlorobenzene	2000	2130	107	65 - 131	
1,2-Dichlorobenzene	2000	2050	103	74 - 120	
1,2-Dichloroethane	2000	1990	99.3	72 - 137	
1,2-Dichloropropane	2000	1920	96.0	71 - 120	
1,3-Dichlorobenzene	2000	1990	99.3	72 - 124	
1,4-Dichlorobenzene	2000	2030	102	72 - 125	
2-Butanone	2000	2130	106	40 - 135	
2-Hexanone	2000	1960	98.0	50 - 140	
4-Methyl-2-pentanone	2000	1890	94.5	50 - 140	
Acetone	2000	2070	103	40 - 141	
Acrylonitrile	2000	1990	99.3	60 - 140	
Benzene	2000	1810	90.4	73 - 126	
Bromodichloromethane	2000	2030	101	72 - 128	
Bromoform	2000	2000	99.9	60 - 137	
Bromomethane	2000	1680	84.1	45 - 141	
Carbon disulfide	2000	1340	67.0	65 - 135	
Carbon tetrachloride	2000	1580	78.8	67 - 133	
Chlorobenzene	2000	1870	93.7	75 - 123	
Dibromochloromethane	2000	2080	104	66 - 130	
Chloroethane	2000	1670	83.3	41 - 141	
Chloroform	2000	1960	97.9	72 - 124	
Chloromethane	2000	1500	75.0	51 - 129	
cis-1,2-Dichloroethene	2000	1940	96.8	67 - 125	
cis-1,3-Dichloropropene	2000	1930	96.4	72 - 126	
Ethylbenzene	2000	1870	93.5	74 - 127	
Methylene chloride	2000	1810	90.4	63 - 137	
Methyltert-butyl ether	2000	1910	95.4	50 - 135	
Styrene	2000	1870	93.6	74 - 128	
Tetrachloroethene	2000	1670	83.4	67 - 139	
Toluene	2000	1860	93.0	71 - 127	
trans-1,2-Dichloroethene	2000	1710	85.7	66 - 134	
trans-1,3-Dichloropropene	2000	1880	94.0	65 - 127	
Trichloroethene	2000	1820	90.8	77 - 124	
Vinyl acetate	2000	1360	68.2	55 - 130	
Vinyl chloride	2000	1400	69.9	58 - 126	
Xylenes	6000	5800	96.7	75 - 130	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252433-02
Instrument ID: HPMS11 Run Time: 09:55 Prep Method: 5030B
File ID: 11M46440 Analyst: MES Method: 8260B
Workgroup (AAB#): WG252433 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD22188 Cal ID: HPMS11-01-OCT-07

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	90.2	70 - 121	PASS
4-Bromofluorobenzene	89.0	59 - 113	PASS
Dibromofluoromethane	89.4	65 - 135	PASS
Toluene-d8	89.5	86 - 138	PASS

* FAILS %REC LIMIT

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Report generated 10/16/2007 16:33

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709626 Analyst:CMS Prep Method:5030B
Instrument ID:HPMS6 Matrix:Water Method:8260B
Workgroup (AAB#):WG251611 Units:ug/L
QC Key:DOWWV2006 Lot #:STD22080

Sample ID:WG251611-02 LCS File ID:6M69482 Run Date:10/01/2007 18:29
Sample ID:WG251611-03 LCS2 File ID:6M69483 Run Date:10/01/2007 19:00

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	20.2	101	20.0	19.9	99.3	1.63	67 - 132	20	
1,1,2,2-Tetrachloroethane	20.0	20.3	101	20.0	20.4	102	0.700	63 - 128	20	
1,1,2-Trichloroethane	20.0	20.1	100	20.0	20.2	101	0.786	70 - 125	20	
1,1-Dichloroethane	20.0	20.8	104	20.0	20.8	104	0.261	67 - 133	20	
1,1-Dichloroethene	20.0	20.5	102	20.0	20.2	101	1.42	68 - 130	20	
1,2,4-Trichlorobenzene	20.0	20.4	102	20.0	20.2	101	0.721	65 - 134	20	
1,2-Dichlorobenzene	20.0	20.8	104	20.0	20.6	103	0.911	71 - 122	20	
1,2-Dichloroethane	20.0	20.3	102	20.0	20.0	100	1.70	69 - 132	20	
1,2-Dichloropropane	20.0	20.7	104	20.0	20.8	104	0.409	75 - 125	20	
1,3-Dichlorobenzene	20.0	20.3	102	20.0	20.3	101	0.368	75 - 124	20	
1,4-Dichlorobenzene	20.0	19.9	99.4	20.0	19.7	98.6	0.745	74 - 123	20	
1,4-Dioxane	200	216	108	200	223	111	2.95	70 - 130	20	
2-Butanone	20.0	21.3	106	20.0	21.2	106	0.364	49 - 136	20	
2-Hexanone	20.0	19.7	98.6	20.0	19.1	95.6	3.11	65 - 135	20	
4-Methyl-2-pentanone	20.0	18.1	90.6	20.0	18.1	90.7	0.133	58 - 134	20	
Acetone	20.0	22.7	114	20.0	23.5	118	3.54	30 - 135	20	
Acrylonitrile	20.0	20.6	103	20.0	20.3	102	1.38	60 - 135	20	
Benzene	20.0	20.9	105	20.0	20.9	104	0.239	81 - 122	20	
Bromodichloromethane	20.0	21.9	109	20.0	21.2	106	3.19	76 - 121	20	
Bromoform	20.0	17.2	86.2	20.0	16.9	84.6	1.87	69 - 128	20	
Bromomethane	20.0	14.5	72.7	20.0	15.3	76.4	4.89	53 - 141	20	
Carbon disulfide	20.0	18.2	91.2	20.0	18.4	92.0	0.880	70 - 130	20	
Carbon tetrachloride	20.0	20.4	102	20.0	20.0	100	1.96	66 - 138	20	
Chlorobenzene	20.0	20.1	101	20.0	20.0	100	0.546	81 - 122	20	
Dibromochloromethane	20.0	18.9	94.7	20.0	18.5	92.7	2.10	66 - 133	20	
Chloroethane	20.0	20.3	102	20.0	20.3	101	0.252	58 - 133	20	
Chloroform	20.0	21.4	107	20.0	20.9	105	2.10	69 - 128	20	
Chloromethane	20.0	17.0	85.0	20.0	16.6	83.0	2.42	56 - 131	20	
cis-1,2-Dichloroethene	20.0	21.7	109	20.0	21.5	108	0.792	72 - 126	20	
cis-1,3-Dichloropropene	20.0	19.0	95.0	20.0	18.6	93.1	2.02	69 - 131	20	
Ethylbenzene	20.0	21.5	108	20.0	21.6	108	0.436	73 - 127	20	
Methylene chloride	20.0	19.7	98.7	20.0	19.7	98.6	0.104	63 - 137	20	
Methyltert-butyl ether	20.0	21.6	108	20.0	22.3	111	3.21	65 - 123	20	
Styrene	20.0	20.3	101	20.0	20.5	102	0.860	65 - 134	20	
Tetrachloroethene	20.0	22.3	111	20.0	22.0	110	1.40	66 - 128	20	
Toluene	20.0	21.6	108	20.0	21.7	109	0.506	77 - 122	20	
trans-1,2-Dichloroethene	20.0	21.1	105	20.0	21.0	105	0.245	63 - 137	20	
trans-1,3-Dichloropropene	20.0	19.8	98.9	20.0	19.4	97.2	1.71	59 - 135	20	
Trichloroethene	20.0	22.0	110	20.0	22.0	110	0.215	70 - 127	20	
Vinyl acetate	20.0	16.1	80.5	20.0	16.3	81.6	1.29	65 - 130	20	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG251611 Units: ug/L
QC Key: DOWWV2006 Lot #: STD22080

Sample ID: WG251611-02 LCS File ID: 6M69482 Run Date: 10/01/2007 18:29
Sample ID: WG251611-03 LCS2 File ID: 6M69483 Run Date: 10/01/2007 19:00

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	17.5	87.4	20.0	16.9	84.6	3.20	50 - 134	20	
Xylenes	60.0	63.4	106	60.0	63.5	106	0.0780	75 - 120	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	94.7	93.2	85 - 115	PASS
1,2-Dichloroethane-d4	94.7	91.6	76 - 114	PASS
Toluene-d8	99.2	99.6	88 - 110	PASS
4-Bromofluorobenzene	99.9	100	86 - 115	PASS

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709626 Analyst:MES Prep Method:5030B
Instrument ID:HPMS9 Matrix:Soil Method:8260B
Workgroup (AAB#):WG252430 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD22188

Sample ID:WG252430-02 LCS File ID:9M57289 Run Date:10/10/2007 10:47
Sample ID:WG252430-03 LCS2 File ID:9M57290 Run Date:10/10/2007 11:18

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	22.4	112	20.0	21.5	108	4.27	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	20.8	104	20.0	21.3	107	2.43	59 - 140	30	
1,1,2-Trichloroethane	20.0	21.9	110	20.0	22.0	110	0.193	62 - 127	30	
1,1-Dichloroethane	20.0	20.4	102	20.0	19.5	97.5	4.66	73 - 125	30	
1,1-Dichloroethene	20.0	24.8	124	20.0	23.4	117	5.56	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	22.5	113	20.0	21.7	108	3.84	65 - 131	30	
1,2-Dichlorobenzene	20.0	21.0	105	20.0	20.5	102	2.65	74 - 120	30	
1,2-Dichloroethane	20.0	19.7	98.6	20.0	19.7	98.6	0.0019	72 - 137	30	
1,2-Dichloropropane	20.0	21.7	108	20.0	21.3	107	1.56	71 - 120	30	
1,3-Dichlorobenzene	20.0	21.0	105	20.0	20.1	100	4.39	72 - 124	30	
1,4-Dichlorobenzene	20.0	20.4	102	20.0	19.4	97.1	4.77	72 - 125	30	
1,4-Dioxane	200	0.00	0.00	200	0.00	0.00	NA	50 - 150	30	*#
2-Butanone	20.0	16.1	80.4	20.0	18.9	94.3	15.8	40 - 135	30	
2-Hexanone	20.0	15.9	79.6	20.0	18.7	93.7	16.3	50 - 140	30	
4-Methyl-2-pentanone	20.0	18.6	92.9	20.0	21.1	105	12.7	50 - 140	30	
Acetone	20.0	14.5	72.5	20.0	16.0	79.9	9.72	40 - 141	30	
Acrylonitrile	20.0	17.9	89.6	20.0	21.0	105	15.7	60 - 140	30	
Benzene	20.0	22.0	110	20.0	21.5	108	2.16	73 - 126	30	
Bromodichloromethane	20.0	22.9	115	20.0	21.8	109	5.03	72 - 128	30	
Bromoform	20.0	22.9	114	20.0	23.9	119	4.26	60 - 137	30	
Bromomethane	20.0	25.2	126	20.0	23.6	118	6.64	45 - 141	30	
Carbon disulfide	20.0	17.7	88.7	20.0	17.6	88.1	0.679	65 - 135	30	
Carbon tetrachloride	20.0	24.8	124	20.0	23.9	119	3.71	67 - 133	30	
Chlorobenzene	20.0	21.2	106	20.0	20.7	103	2.75	75 - 123	30	
Dibromochloromethane	20.0	22.9	114	20.0	22.5	113	1.47	66 - 130	30	
Chloroethane	20.0	24.9	124	20.0	23.2	116	7.20	41 - 141	30	
Chloroform	20.0	21.3	107	20.0	20.6	103	3.73	72 - 124	30	
Chloromethane	20.0	22.2	111	20.0	21.0	105	5.75	51 - 129	30	
cis-1,2-Dichloroethene	20.0	23.7	118	20.0	22.9	114	3.45	67 - 125	30	
cis-1,3-Dichloropropene	20.0	22.0	110	20.0	21.5	107	2.46	72 - 126	30	
Ethylbenzene	20.0	22.9	114	20.0	21.7	109	5.14	74 - 127	30	
Methylene chloride	20.0	21.9	109	20.0	21.3	106	2.96	63 - 137	30	
Methyltert-butyl ether	20.0	19.8	99.0	20.0	20.9	104	5.32	50 - 135	30	
Styrene	20.0	23.8	119	20.0	23.0	115	3.57	74 - 128	30	
Tetrachloroethene	20.0	22.9	115	20.0	21.9	109	4.76	67 - 139	30	
Toluene	20.0	21.6	108	20.0	20.8	104	4.06	71 - 127	30	
trans-1,2-Dichloroethene	20.0	23.6	118	20.0	22.5	113	4.69	66 - 134	30	
trans-1,3-Dichloropropene	20.0	19.1	95.6	20.0	18.8	94.2	1.48	65 - 127	30	
Trichloroethene	20.0	24.7	124	20.0	23.3	117	5.71	77 - 124	30	
Vinyl acetate	20.0	12.1	60.7	20.0	12.7	63.3	4.18	55 - 130	30	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Analyst: MES Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG252430 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD22188

Sample ID: WG252430-02 LCS File ID: 9M57289 Run Date: 10/10/2007 10:47
Sample ID: WG252430-03 LCS2 File ID: 9M57290 Run Date: 10/10/2007 11:18

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	26.7	133	20.0	25.0	125	6.47	58 - 126	30	*
Xylenes	60.0	68.6	114	60.0	65.8	110	4.15	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	114	113	65 - 135	PASS
1,2-Dichloroethane-d4	94.7	99.5	70 - 121	PASS
Toluene-d8	107	106	86 - 138	PASS
4-Bromofluorobenzene	95.6	96.6	59 - 113	PASS

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number:L0709626 Analyst:MES Prep Method:5030B
Instrument ID:HPMS9 Matrix:Soil Method:8260B
Workgroup (AAB#):WG251043 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD22080

Sample ID:WG251043-02 LCS File ID:9M56991 Run Date:09/26/2007 09:40
Sample ID:WG251043-03 LCS2 File ID:9M56992 Run Date:09/26/2007 10:11

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	16.8	84.0	20.0	17.6	88.0	4.66	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	16.9	84.6	20.0	18.1	90.5	6.75	59 - 140	30	
1,1,2-Trichloroethane	20.0	18.1	90.6	20.0	18.5	92.4	1.95	62 - 127	30	
1,1-Dichloroethane	20.0	15.9	79.6	20.0	16.6	82.8	3.87	73 - 125	30	
1,1-Dichloroethene	20.0	18.1	90.6	20.0	18.9	94.4	4.13	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	18.4	92.2	20.0	19.0	95.2	3.20	65 - 131	30	
1,2-Dichlorobenzene	20.0	17.3	86.7	20.0	18.1	90.7	4.50	74 - 120	30	
1,2-Dichloroethane	20.0	15.4	76.9	20.0	16.1	80.7	4.74	72 - 137	30	
1,2-Dichloropropane	20.0	17.5	87.4	20.0	18.2	90.9	3.88	71 - 120	30	
1,3-Dichlorobenzene	20.0	17.1	85.5	20.0	17.8	88.8	3.76	72 - 124	30	
1,4-Dichlorobenzene	20.0	16.6	83.2	20.0	17.4	87.0	4.44	72 - 125	30	
1,4-Dioxane	200	217	108	200	205	102	5.68	50 - 150	30	
2-Butanone	20.0	20.7	103	20.0	19.0	95.0	8.39	40 - 135	30	
2-Hexanone	20.0	18.5	92.3	20.0	16.8	83.8	9.61	50 - 140	30	
4-Methyl-2-pentanone	20.0	21.1	105	20.0	19.6	97.8	7.54	50 - 140	30	
Acetone	20.0	17.1	85.6	20.0	15.9	79.3	7.66	40 - 141	30	
Acrylonitrile	20.0	20.6	103	20.0	18.5	92.7	10.6	60 - 140	30	
Benzene	20.0	17.8	89.0	20.0	18.4	92.2	3.56	73 - 126	30	
Bromodichloromethane	20.0	17.4	87.1	20.0	17.7	88.6	1.78	72 - 128	30	
Bromoform	20.0	18.3	91.6	20.0	19.2	95.8	4.40	60 - 137	30	
Bromomethane	20.0	19.7	98.3	20.0	20.5	102	4.02	45 - 141	30	
Carbon disulfide	20.0	17.6	88.0	20.0	16.6	83.2	5.60	65 - 135	30	
Carbon tetrachloride	20.0	18.3	91.4	20.0	19.1	95.4	4.29	67 - 133	30	
Chlorobenzene	20.0	17.1	85.6	20.0	17.8	88.9	3.74	75 - 123	30	
Dibromochloromethane	20.0	17.7	88.4	20.0	18.4	91.8	3.77	66 - 130	30	
Chloroethane	20.0	16.0	79.9	20.0	16.5	82.3	2.89	41 - 141	30	
Chloroform	20.0	16.7	83.3	20.0	17.4	86.8	4.11	72 - 124	30	
Chloromethane	20.0	14.5	72.5	20.0	15.1	75.4	3.82	51 - 129	30	
cis-1,2-Dichloroethene	20.0	18.6	92.8	20.0	19.5	97.5	4.98	67 - 125	30	
cis-1,3-Dichloropropene	20.0	17.5	87.7	20.0	18.2	91.1	3.82	72 - 126	30	
Ethylbenzene	20.0	18.2	90.9	20.0	18.9	94.6	4.04	74 - 127	30	
Methylene chloride	20.0	16.5	82.4	20.0	17.1	85.6	3.83	63 - 137	30	
Methyltert-butyl ether	20.0	20.8	104	20.0	19.4	96.8	7.22	50 - 135	30	
Styrene	20.0	18.8	94.2	20.0	19.6	98.0	3.92	74 - 128	30	
Tetrachloroethene	20.0	18.1	90.5	20.0	19.1	95.6	5.47	67 - 139	30	
Toluene	20.0	17.4	86.8	20.0	18.0	90.1	3.75	71 - 127	30	
trans-1,2-Dichloroethene	20.0	18.0	90.1	20.0	18.5	92.3	2.37	66 - 134	30	
trans-1,3-Dichloropropene	20.0	15.3	76.3	20.0	15.6	78.1	2.32	65 - 127	30	
Trichloroethene	20.0	19.7	98.7	20.0	20.2	101	2.19	77 - 124	30	
Vinyl acetate	20.0	18.0	89.9	20.0	17.0	84.8	5.85	55 - 130	30	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Analyst: MES Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG251043 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD22080

Sample ID: WG251043-02 LCS File ID: 9M56991 Run Date: 09/26/2007 09:40
Sample ID: WG251043-03 LCS2 File ID: 9M56992 Run Date: 09/26/2007 10:11

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	16.8	84.1	20.0	18.1	90.6	7.40	58 - 126	30	
Xylenes	60.0	55.2	91.9	60.0	56.7	94.4	2.69	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	107	101	65 - 135	PASS
1,2-Dichloroethane-d4	93.0	86.9	70 - 121	PASS
Toluene-d8	103	98.8	86 - 138	PASS
4-Bromofluorobenzene	93.6	90.2	59 - 113	PASS

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

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KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID:HPMS9-14-AUG-07 Worknum:WG251043
Instrument ID:HPMS9 Contract #: Prep Method:5030B
Parent ID:L0709626-05 File ID:9M56999 Dil:1 Method:8260B
Sample ID:L0709626-06 MS File ID:9M57000 Dil:1 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:9M57001 Dil:1 Units:ug/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1-Trichloroethane	U	20.8	21.4	103	20.5	21.9	107	2.55	68 - 130	30	
1,1,2,2-Tetrachloroethane	U	20.8	54.4	262	20.5	124	608	78.3	59 - 140	30	*#
1,1,2-Trichloroethane	U	20.8	27.9	134	20.5	28.5	139	2.04	62 - 127	30	*
1,1-Dichloroethane	U	20.8	21.4	103	20.5	22.4	109	4.60	73 - 125	30	
1,1-Dichloroethene	U	20.8	25.5	123	20.5	27.4	134	7.31	65 - 136	30	
1,2,4-Trichlorobenzene	U	20.8	12.9	62.4	20.5	13.7	66.9	5.45	65 - 131	30	*
1,2-Dichlorobenzene	49.9	20.8	156	513	20.5	153	506	1.91	74 - 120	30	*
1,2-Dichloroethane	U	20.8	24.9	120	20.5	20.8	102	18.1	72 - 137	30	
1,2-Dichloropropane	U	20.8	24.1	116	20.5	24.2	118	0.526	71 - 120	30	
1,3-Dichlorobenzene	U	20.8	27.6	133	20.5	30.5	149	10.0	72 - 124	30	*
1,4-Dichlorobenzene	U	20.8	44.1	213	20.5	39.9	195	10.0	72 - 125	30	*
1,4-Dioxane	U	208	527	254	205	419	205	22.9	50 - 150	30	*
2-Butanone	U	20.8	22.9	110	20.5	22.5	110	1.66	40 - 135	30	
2-Hexanone	U	20.8	31.2	150	20.5	48.8	239	44.1	50 - 140	30	*#
4-Methyl-2-pentanone	U	20.8	24.5	118	20.5	23.3	114	4.93	50 - 140	30	
Acetone	U	20.8	22.2	107	20.5	24.0	118	7.92	40 - 141	30	
Acrylonitrile	U	20.8	20.7	99.8	20.5	20.0	97.6	3.74	60 - 140	30	
Benzene	24.0	20.8	307	1360	20.5	95.4	349	105	73 - 126	30	*#
Bromodichloromethane	U	20.8	22.0	106	20.5	22.2	109	0.993	72 - 128	30	
Bromoform	U	20.8	21.7	104	20.5	21.0	103	3.18	60 - 137	30	
Bromomethane	U	20.8	26.4	127	20.5	27.3	133	3.17	45 - 141	30	
Carbon disulfide	U	20.8	22.4	108	20.5	23.7	116	5.72	65 - 135	30	
Carbon tetrachloride	U	20.8	22.0	106	20.5	22.0	108	0.245	67 - 133	30	
Chlorobenzene	823	20.8	2660	8840	20.5	2130	6370	22.3	75 - 123	30	*
Dibromochloromethane	U	20.8	25.3	122	20.5	26.1	128	2.92	66 - 130	30	
Chloroethane	U	20.8	24.0	115	20.5	25.1	123	4.64	41 - 141	30	
Chloroform	U	20.8	22.4	108	20.5	22.7	111	1.23	72 - 124	30	
Chloromethane	U	20.8	22.5	108	20.5	23.6	115	4.52	51 - 129	30	
cis-1,2-Dichloroethene	U	20.8	25.2	121	20.5	26.0	127	2.89	67 - 125	30	*
cis-1,3-Dichloropropene	U	20.8	22.7	109	20.5	22.4	110	1.04	72 - 126	30	
Ethylbenzene	215	20.8	1360	5500	20.5	881	3260	42.5	74 - 127	30	*#
Methylene chloride	U	20.8	22.8	110	20.5	23.4	114	2.67	63 - 137	30	
Methyltert-butyl ether	U	20.8	22.7	110	20.5	21.4	105	5.94	50 - 135	30	
Styrene	U	20.8	50.6	244	20.5	38.3	187	27.8	74 - 128	30	*
Tetrachloroethene	U	20.8	27.4	132	20.5	26.8	131	2.17	67 - 139	30	
Toluene	U	20.8	50.7	244	20.5	34.9	170	37.1	71 - 127	30	*#
trans-1,2-Dichloroethene	U	20.8	24.3	117	20.5	25.9	127	6.54	66 - 134	30	
trans-1,3-Dichloropropene	U	20.8	21.9	106	20.5	22.7	111	3.52	65 - 127	30	
Trichloroethene	U	20.8	31.1	150	20.5	28.3	138	9.48	77 - 124	30	*
Vinyl acetate	U	20.8	5.59	27.0	20.5	11.8	57.6	71.1	55 - 130	30	*#
Vinyl chloride	U	20.8	25.5	123	20.5	26.7	131	4.54	58 - 126	30	*

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Report generated 10/16/2007 08:54

KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID:HPMS9 14-AUG-07 Worknum:WG251043
Instrument ID:HPMS9 Contract #: Prep Method:5030B
Parent ID:L0709626-05 File ID:9M56999 Dil:1 Method:8260B
Sample ID:L0709626-06 MS File ID:9M57000 Dil:1 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:9M57001 Dil:1 Units:ug/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Xylenes	44.6	62.3	288	391	61.4	245	327	15.9	75 - 130	30	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 886549
Report generated 10/16/2007 08:54

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG251532-01
Instrument: HPMS11 Run Date: 10/01/2007
Analyst: MES Run Time: 11:15
Workgroup: WG251532 File ID: 11M46050
Cal ID: HPMS11-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	28.5	12940	PASS
75.0	95.0	30.0	60.0	55.6	25260	PASS
95.0	95.0	100	100	100	45413	PASS
96.0	95.0	5.00	9.00	7.38	3351	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	55.4	25144	PASS
175	174	5.00	9.00	7.53	1894	PASS
176	174	95.0	101	98.4	24744	PASS
177	176	5.00	9.00	7.33	1814	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251532-02	STD	01	10/01/2007 11:40	
WG251532-03	STD	01	10/01/2007 12:11	
WG251532-04	STD	01	10/01/2007 12:42	
WG251532-05	STD	01	10/01/2007 13:12	
WG251532-06	STD	01	10/01/2007 13:42	
WG251532-07	STD	01	10/01/2007 14:18	
WG251532-08	STD-CCV	01	10/01/2007 14:48	
WG251532-09	STD	01	10/01/2007 15:18	
WG251532-10	STD	01	10/01/2007 15:48	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG251618-01
Instrument: HPMS11 Run Date: 10/01/2007
Analyst: MES Run Time: 18:38
Workgroup: WG251618 File ID: 11M46064
Cal ID: HPMS11-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	28.1	15873	PASS
75.0	95.0	30.0	60.0	54.1	30544	PASS
95.0	95.0	100	100	100	56448	PASS
96.0	95.0	5.00	9.00	6.83	3854	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	59.4	33531	PASS
175	174	5.00	9.00	7.80	2616	PASS
176	174	95.0	101	98.1	32907	PASS
177	176	5.00	9.00	7.16	2357	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251532-11	SSCV	01	10/01/2007 20:02	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG251775-01
Instrument: HPMS11 Run Date: 10/03/2007
Analyst: MES Run Time: 07:55
Workgroup: WG251775 File ID: 11M46138
Cal ID: HPMS11-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	29.0	15742	PASS
75.0	95.0	30.0	60.0	54.9	29784	PASS
95.0	95.0	100	100	100	54253	PASS
96.0	95.0	5.00	9.00	6.66	3611	PASS
173	174	0	2.00	0.759	247	PASS
174	95.0	50.0	100	60.0	32541	PASS
175	174	5.00	9.00	7.15	2328	PASS
176	174	95.0	101	99.2	32296	PASS
177	176	5.00	9.00	6.42	2072	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251775-02	CCV	01	10/03/2007 08:18	
WG251776-01	BLANK	DL01	10/03/2007 08:48	
WG251776-01	BLANK	DL01	10/03/2007 08:48	
WG251776-02	LCS	DL01	10/03/2007 09:18	
L0709626-02	0083-SO-092107	DL01	10/03/2007 09:49	
WG251776-03	REF	DL01	10/03/2007 12:20	
WG251776-04	DUP	DL01	10/03/2007 13:25	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
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KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG252421-01
Instrument: HPMS11 Run Date: 10/10/2007
Analyst: MES Run Time: 07:56
Workgroup: WG252421 File ID: 11M46436
Cal ID: HPMS11-01-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	27.3	13790	PASS
75.0	95.0	30.0	60.0	54.0	27290	PASS
95.0	95.0	100	100	100	50512	PASS
96.0	95.0	5.00	9.00	6.50	3282	PASS
173	174	0	2.00	1.19	371	PASS
174	95.0	50.0	100	61.9	31264	PASS
175	174	5.00	9.00	8.10	2531	PASS
176	174	95.0	101	97.3	30432	PASS
177	176	5.00	9.00	6.26	1905	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252421-02	CCV	01	10/10/2007 08:18	
WG252433-01	BLANK	DL01	10/10/2007 08:54	
WG252433-02	LCS	DL01	10/10/2007 09:55	
WG252433-03	REF	DL01	10/10/2007 11:56	
WG252433-04	DUP	DL01	10/10/2007 12:26	
L0709626-03	0084-SO-092107	DL02	10/10/2007 17:29	
L0709626-05	0086-SO-092107	DL01	10/10/2007 17:59	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG249872-01
Instrument: HPMS6 Run Date: 09/12/2007
Analyst: CMS Run Time: 08:45
Workgroup: WG249872 File ID: 6M68862
Cal ID: HPMS6-12-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	21.0	10950	PASS
75.0	95.0	30.0	60.0	52.0	27058	PASS
95.0	95.0	100	100	100	52032	PASS
96.0	95.0	5.00	9.00	7.69	4001	PASS
173	174	0	2.00	1.04	432	PASS
174	95.0	50.0	100	79.6	41429	PASS
175	174	5.00	9.00	7.99	3309	PASS
176	174	95.0	101	95.5	39581	PASS
177	176	5.00	9.00	6.66	2636	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG249872-02	STD	01	09/12/2007 09:44	
WG249872-03	STD	01	09/12/2007 10:17	
WG249872-06	STD	01	09/12/2007 12:25	
WG249872-07	STD-CCV	01	09/12/2007 12:57	
WG249872-08	STD	01	09/12/2007 13:30	
WG249872-09	STD	01	09/12/2007 14:02	
WG249872-10	STD	01	09/12/2007 14:34	
WG249872-05	STD	01	09/12/2007 16:10	
WG249872-04	STD	01	09/12/2007 17:13	
WG249872-11	SSCV	01	09/12/2007 17:45	

* Sample past 12 hour tune limit

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG251610-01
Instrument: HPMS6 Run Date: 10/01/2007
Analyst: CMS Run Time: 16:31
Workgroup: WG251610 File ID: 6M69478
Cal ID: HPMS6-12-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	21.8	5821	PASS
75.0	95.0	30.0	60.0	54.1	14468	PASS
95.0	95.0	100	100	100	26720	PASS
96.0	95.0	5.00	9.00	5.37	1435	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	77.6	20744	PASS
175	174	5.00	9.00	7.31	1517	PASS
176	174	95.0	101	95.7	19845	PASS
177	176	5.00	9.00	7.30	1448	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251610-02	CCV	01	10/01/2007 16:54	
WG251611-01	BLANK	01	10/01/2007 17:57	
WG251611-02	LCS	01	10/01/2007 18:29	
WG251611-03	LCS2	01	10/01/2007 19:00	
L0709626-08	TRIP BLANK	01	10/01/2007 22:11	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG247666-01
Instrument: HPMS9 Run Date: 08/14/2007
Analyst: MES Run Time: 11:19
Workgroup: WG247666 File ID: 9M56007
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	18.9	4941	PASS
75.0	95.0	30.0	60.0	43.9	11486	PASS
95.0	95.0	100	100	100	26157	PASS
96.0	95.0	5.00	9.00	6.51	1702	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	82.6	21613	PASS
175	174	5.00	9.00	7.88	1704	PASS
176	174	95.0	101	97.6	21090	PASS
177	176	5.00	9.00	6.57	1386	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG247666-02	STD-S	01	08/14/2007 11:42	
WG247666-03	STD-S	01	08/14/2007 12:13	
WG247666-04	STD-S	01	08/14/2007 12:49	
WG247666-05	STD-S	01	08/14/2007 13:19	
WG247666-06	STD-S	01	08/14/2007 13:51	
WG247666-07	STD-S	01	08/14/2007 14:22	
WG247666-08	STD-CCV-S	01	08/14/2007 14:53	
WG247666-09	STD-S	01	08/14/2007 15:24	
WG247666-10	STD-S	01	08/14/2007 15:55	
WG247666-11	STD-S	01	08/14/2007 16:27	
WG247666-12	SSCV-S	01	08/14/2007 18:01	
WG247666-13	SSCV-S	01	08/14/2007 18:32	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG251042-01
Instrument: HPMS9 Run Date: 09/26/2007
Analyst: MES Run Time: 08:12
Workgroup: WG251042 File ID: 9M56988
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	17.0	3299	PASS
75.0	95.0	30.0	60.0	41.7	8104	PASS
95.0	95.0	100	100	100	19413	PASS
96.0	95.0	5.00	9.00	7.13	1384	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	90.0	17481	PASS
175	174	5.00	9.00	7.75	1354	PASS
176	174	95.0	101	99.0	17309	PASS
177	176	5.00	9.00	6.34	1098	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251042-02	CCV-S	01	09/26/2007 08:37	
WG251043-01	BLANK	01	09/26/2007 09:09	
WG251043-02	LCS	01	09/26/2007 09:40	
WG251043-03	LCS2	01	09/26/2007 10:11	
L0709626-01	0082-SO-092107	01	09/26/2007 11:43	
L0709626-02	0083-SO-092107	01	09/26/2007 12:14	
L0709626-03	0084-SO-092107	01	09/26/2007 12:45	
L0709626-05	0086-SO-092107	01	09/26/2007 13:47	
WG251043-04	REF	01	09/26/2007 13:47	
L0709626-06	0086-SO-092107/MS	01	09/26/2007 14:23	
WG251043-05	MS	01	09/26/2007 14:23	
L0709626-07	0086-SO-092107/MSD	01	09/26/2007 14:53	
WG251043-06	MSD	01	09/26/2007 14:53	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L0709626 Tune ID: WG252429-01
Instrument: HPMS9 Run Date: 10/10/2007
Analyst: MES Run Time: 09:21
Workgroup: WG252429 File ID: 9M57286
Cal ID: HPMS9-14-AUG-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	17.3	2731	PASS
75.0	95.0	30.0	60.0	40.6	6402	PASS
95.0	95.0	100	100	100	15784	PASS
96.0	95.0	5.00	9.00	6.22	982	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	92.2	14554	PASS
175	174	5.00	9.00	7.04	1025	PASS
176	174	95.0	101	97.7	14217	PASS
177	176	5.00	9.00	5.63	801	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252429-02	CCV-S	01	10/10/2007 09:45	
WG252430-01	BLANK	01	10/10/2007 10:16	
WG252430-02	LCS	01	10/10/2007 10:47	
WG252430-03	LCS2	01	10/10/2007 11:18	
L0709626-04	0085-SO-092107	02	10/10/2007 12:50	

*** Sample past 12 hour tune limit**

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS11
Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48
ICAL Workgroup: WG251532 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.5856	17.3		1.00
1,2-Dichloropropane	CCC	0.2949	9.42		
Chloroform	CCC	0.5438	9.08		
Ethylbenzene	CCC	0.5272	14.3		
Toluene	CCC	1.521	10.7		
Vinyl Chloride	CCC	0.3573	16.5		1.00
1,1,2,2-Tetrachloroethane	SPCC	0.4632	5.71		
1,1-Dichloroethane	SPCC	0.6413	9.75		
Bromoform	SPCC	0.1592	10.4		
Chlorobenzene	SPCC	0.9874	7.61		
Chloromethane	SPCC	0.4467	6.42		
1,1,1-Trichloroethane		0.5202	15.0		
1,1,2-Trichloroethane		0.2287	9.70		
1,2,4-Trichlorobenzene		0.8233	9.27		
1,2-Dichlorobenzene		1.212	7.65		
1,2-Dichloroethane		0.5005	6.73		
1,3-Dichlorobenzene		1.377	12.8		
1,4-Dichlorobenzene		1.396	10.3		
1,4-Dioxane					
2-Butanone		0.06584	5.59		
2-Hexanone		0.1555	4.45		
4-Methyl-2-Pentanone		0.06512	4.74		
Acetone		0.05000	11.0		
Acrylonitrile		0.07470	2.69		
Benzene		1.001	6.65		
Bromodichloromethane		0.3822	10.1		
Bromomethane		0.1750	13.3		
Carbon Disulfide		0.7795	3.36		
Carbon Tetrachloride		0.4032	19.5		1.00
Chloroethane		0.2473	2.57		
Dibromochloromethane		0.3012	13.2		
Methyl Tert Butyl Ether		0.6091	3.55		
Methylene Chloride		0.3950	54.7		1.00
Styrene		1.018	15.9	1.00	
Tetrachloroethene		0.2559	16.3		1.00
Trichloroethene		0.2327	13.2		
Vinyl Acetate		0.4842	4.25		
cis-1,2-Dichloroethene		0.2615	12.4		
cis-1,3-Dichloropropene		0.3993	11.2		
m-,p-Xylene		0.6669	10.4		
o-Xylene		0.6374	11.6		
trans-1,2-Dichloroethene		0.2601	10.0		
trans-1,3-Dichloropropene		0.5556	11.1		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS11
Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48
ICAL Workgroup: WG251532 **Column ID:** F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

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Report generated 10/16/2007 16:38

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

ICAL Workgroup: WG249872 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3558	16.7	1.00	
1,2-Dichloropropane	CCC	0.2029	10.3		
Chloroform	CCC	0.4804	5.84		
Ethylbenzene	CCC	0.4624	13.3		
Toluene	CCC	1.206	9.04		
Vinyl Chloride	CCC	0.2892	17.8		1.00
1,1,2,2-Tetrachloroethane	SPCC	0.3514	6.11		
1,1-Dichloroethane	SPCC	0.4276	7.39		
Bromoform	SPCC	0.1734	18.8	0.999	
Chlorobenzene	SPCC	0.8816	5.96		
Chloromethane	SPCC	0.3222	14.3		
1,1,1-Trichloroethane		0.4205	18.1		1.00
1,1,2-Trichloroethane		0.1958	7.73		
1,2,4-Trichlorobenzene		0.8920	5.68		
1,2-Dichlorobenzene		1.193	5.57		
1,2-Dichloroethane		0.3345	4.48		
1,3-Dichlorobenzene		1.378	6.17		
1,4-Dichlorobenzene		1.429	3.28		
1,4-Dioxane		0.0009333	19.6		0.992
2-Butanone		0.04932	5.32		
2-Hexanone		0.09588	10.1		
4-Methyl-2-Pentanone		0.04165	10.9		
Acetone		0.03707	8.52		
Acrylonitrile		0.04421	11.1		
Benzene		0.8916	6.60		
Bromodichloromethane		0.3399	9.79		
Bromomethane		0.2032	4.19		
Carbon Disulfide		0.6910	17.6	0.999	
Carbon Tetrachloride		0.3865	21.3		1.00
Chloroethane		0.1749	7.69		
Dibromochloromethane		0.2762	15.6	1.00	
Methyl Tert Butyl Ether		0.4499	8.28		
Methylene Chloride		0.3718	61.8	1.00	
Styrene		0.9660	14.0		
Tetrachloroethene		0.3323	13.9		
Trichloroethene		0.2408	13.9		
Vinyl Acetate		0.2424	5.27		
cis-1,2-Dichloroethene		0.2464	13.8		
cis-1,3-Dichloropropene		0.3378	17.8	1.00	
m-,p-Xylene		0.5741	13.0		
o-Xylene		0.5689	14.0		
trans-1,2-Dichloroethene		0.2329	12.4		
trans-1,3-Dichloropropene		0.3965	14.3		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

ICAL Workgroup: WG249872 **Column ID:** F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

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Version 1.5 PDF File ID: 906105
Report generated 10/16/2007 16:38

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

ICAL Workgroup: WG247666 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.2472	9.58		
1,2-Dichloropropane	CCC	0.2446	5.91		
Chloroform	CCC	0.4886	6.48		
Ethylbenzene	CCC	0.4928	6.88		
Toluene	CCC	1.365	6.06		
Vinyl Chloride	CCC	0.2050	8.41		
1,1,2,2-Tetrachloroethane	SPCC	0.4921	5.62		
1,1-Dichloroethane	SPCC	0.5052	6.07		
Bromoform	SPCC	0.1812	7.91		
Chlorobenzene	SPCC	0.9618	5.85		
Chloromethane	SPCC	0.2855	6.81		
1,1,1-Trichloroethane		0.4670	6.54		
1,1,2-Trichloroethane		0.2498	5.82		
1,2,4-Trichlorobenzene		0.8491	5.57		
1,2-Dichlorobenzene		1.273	4.99		
1,2-Dichloroethane		0.3752	7.96		
1,3-Dichlorobenzene		1.394	6.74		
1,4-Dichlorobenzene		1.446	9.05		
1,4-Dioxane		0.001783	15.8	0.999	
2-Butanone		0.1161	8.47		
2-Hexanone		0.1980	8.61		
4-Methyl-2-Pentanone		0.08620	6.29		
Acetone		0.09077	34.7		0.999
Acrylonitrile		0.08527	5.49		
Benzene		1.037	5.92		
Bromodichloromethane		0.3243	6.66		
Bromomethane		0.1493	11.5		
Carbon Disulfide		0.8337	6.50		
Carbon Tetrachloride		0.4010	11.0		
Chloroethane		0.1649	8.41		
Dibromochloromethane		0.3068	11.6		
Methyl Tert Butyl Ether		0.6880	3.63		
Methylene Chloride		0.2917	18.6		1.00
Styrene		0.8775	12.1		
Tetrachloroethene		0.2986	6.37		
Trichloroethene		0.3199	6.40		
Vinyl Acetate		0.5434	5.31		
cis-1,2-Dichloroethene		0.2866	5.62		
cis-1,3-Dichloropropene		0.3787	8.26		
m-,p-Xylene		0.5933	7.83		
o-Xylene		0.5503	9.72		
trans-1,2-Dichloroethene		0.2822	6.05		
trans-1,3-Dichloropropene		0.4341	8.54		

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

ICAL Workgroup: WG247666 **Column ID:** F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-02			WG251532-03			WG251532-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	5459.00000	0.3406	1.00	22956.0000	0.5767
1,2-Dichloropropane	NA	NA	NA	0.400	3683.00000	0.2298	1.00	11307.0000	0.2841
Chloroform	0.300	6893.00000	0.5373	0.400	6707.00000	0.4185	1.00	22279.0000	0.5597
Ethylbenzene	NA	NA	NA	0.400	3644.00000	0.3495	1.00	13022.0000	0.5067
Toluene	NA	NA	NA	0.400	11758.0000	1.128	1.00	39735.0000	1.546
Vinyl Chloride	NA	NA	NA	0.400	4333.00000	0.2703	1.00	17176.0000	0.4315
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	2458.00000	0.4556	1.00	5562.00000	0.4178
1,1-Dichloroethane	NA	NA	NA	0.400	7965.00000	0.4969	1.00	24401.0000	0.6131
Bromoform	NA	NA	NA	NA	NA	NA	1.00	3393.00000	0.1320
Chlorobenzene	NA	NA	NA	0.400	8476.00000	0.8130	1.00	25625.0000	0.9972
Chloromethane	NA	NA	NA	0.400	7022.00000	0.4381	1.00	17646.0000	0.4433
1,1,1-Trichloroethane	NA	NA	NA	0.400	5415.00000	0.3378	1.00	20488.0000	0.5147
1,1,2-Trichloroethane	NA	NA	NA	0.400	1851.00000	0.1775	1.00	5710.00000	0.2222
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	3539.00000	0.6560	1.00	10704.0000	0.8041
1,2-Dichlorobenzene	0.300	4763.00000	1.183	0.400	5312.00000	0.9846	1.00	16208.0000	1.218
1,2-Dichloroethane	NA	NA	NA	0.400	7081.00000	0.4418	1.00	20110.0000	0.5052
1,3-Dichlorobenzene	NA	NA	NA	0.400	5186.00000	0.9613	1.00	17647.0000	1.326
1,4-Dichlorobenzene	0.300	5161.00000	1.282	0.400	5753.00000	1.066	1.00	18398.0000	1.382
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	13570.0000	0.8466	1.00	38743.0000	0.9734
Bromodichloromethane	NA	NA	NA	0.400	4690.00000	0.2926	1.00	14758.0000	0.3708
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	5941.00000	0.1493
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	29560.0000	0.7427
Carbon Tetrachloride	NA	NA	NA	0.400	3443.00000	0.2148	1.00	15952.0000	0.4008
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	9542.00000	0.2397
Dibromochloromethane	NA	NA	NA	0.400	2533.00000	0.2430	1.00	6241.00000	0.2429
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	23664.0000	0.5945
Methylene Chloride	NA	NA	NA	0.400	13939.0000	0.8697	1.00	21650.0000	0.5439
Styrene	NA	NA	NA	0.400	7224.00000	0.6929	1.00	22881.0000	0.8904
Tetrachloroethene	NA	NA	NA	0.400	1692.00000	0.1623	1.00	5980.00000	0.2327
Trichloroethene	NA	NA	NA	0.400	2552.00000	0.1592	1.00	9457.00000	0.2376
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3018.00000	0.1883	1.00	9585.00000	0.2408
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5024.00000	0.3134	1.00	14105.0000	0.3544
m-,p-Xylene	NA	NA	NA	0.800	10564.0000	0.5066	2.00	32904.0000	0.6402
o-Xylene	NA	NA	NA	0.400	4810.00000	0.4614	1.00	15978.0000	0.6218
trans-1,2-Dichloroethene	NA	NA	NA	0.400	3162.00000	0.1973	1.00	10260.0000	0.2578

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-05			WG251532-06			WG251532-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	48476.0000	0.6182	5.00	125622.000	0.6336	20.0	535695.000	0.6421
1,2-Dichloropropane	2.00	24026.0000	0.3064	5.00	60721.0000	0.3063	20.0	255504.000	0.3063
Chloroform	2.00	44355.0000	0.5657	5.00	112252.000	0.5662	20.0	484435.000	0.5807
Ethylbenzene	2.00	27498.0000	0.5335	5.00	73404.0000	0.5622	20.0	307082.000	0.5615
Toluene	2.00	79868.0000	1.550	5.00	198698.000	1.522	20.0	872465.000	1.595
Vinyl Chloride	2.00	33432.0000	0.4264	5.00	75335.0000	0.3800	20.0	315490.000	0.3782
1,1,2,2-Tetrachloroethane	2.00	12732.0000	0.4763	5.00	33959.0000	0.5071	20.0	126680.000	0.4520
1,1-Dichloroethane	2.00	52354.0000	0.6677	5.00	132096.000	0.6663	20.0	573339.000	0.6872
Bromoform	2.00	7526.00000	0.1460	5.00	19891.0000	0.1523	20.0	89511.0000	0.1637
Chlorobenzene	2.00	55132.0000	1.070	5.00	128985.000	0.9879	20.0	549650.000	1.005
Chloromethane	2.00	39610.0000	0.5052	5.00	89663.0000	0.4523	20.0	388504.000	0.4657
1,1,1-Trichloroethane	2.00	44026.0000	0.5615	5.00	111298.000	0.5614	20.0	479025.000	0.5742
1,1,2-Trichloroethane	2.00	11873.0000	0.2303	5.00	31952.0000	0.2447	20.0	128006.000	0.2341
1,2,4-Trichlorobenzene	2.00	23534.0000	0.8804	5.00	58779.0000	0.8777	20.0	242679.000	0.8658
1,2-Dichlorobenzene	2.00	34537.0000	1.292	5.00	84559.0000	1.263	20.0	346990.000	1.238
1,2-Dichloroethane	2.00	41756.0000	0.5325	5.00	104639.000	0.5278	20.0	437462.000	0.5244
1,3-Dichlorobenzene	2.00	39948.0000	1.495	5.00	97419.0000	1.455	20.0	407476.000	1.454
1,4-Dichlorobenzene	2.00	40610.0000	1.519	5.00	99812.0000	1.490	20.0	415174.000	1.481
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	5.00	14161.0000	0.07140	20.0	53500.0000	0.06410
2-Hexanone	NA	NA	NA	5.00	21234.0000	0.1626	20.0	82590.0000	0.1510
4-Methyl-2-Pentanone	NA	NA	NA	5.00	13461.0000	0.06790	20.0	50386.0000	0.06040
Acetone	NA	NA	NA	5.00	11470.0000	0.05790	20.0	42030.0000	0.05040
Acrylonitrile	NA	NA	NA	5.00	14911.0000	0.07520	20.0	62575.0000	0.07500
Benzene	2.00	80625.0000	1.028	5.00	202501.000	1.021	20.0	855276.000	1.025
Bromodichloromethane	2.00	30555.0000	0.3897	5.00	78106.0000	0.3940	20.0	336034.000	0.4028
Bromomethane	2.00	12430.0000	0.1585	5.00	29313.0000	0.1479	20.0	147898.000	0.1773
Carbon Disulfide	2.00	58739.0000	0.7491	5.00	152424.000	0.7688	20.0	661644.000	0.7931
Carbon Tetrachloride	2.00	32747.0000	0.4176	5.00	89399.0000	0.4509	20.0	372854.000	0.4469
Chloroethane	2.00	19584.0000	0.2498	5.00	48803.0000	0.2462	20.0	213904.000	0.2564
Dibromochloromethane	2.00	14878.0000	0.2886	5.00	40156.0000	0.3075	20.0	178082.000	0.3256
Methyl Tert Butyl Ether	2.00	48149.0000	0.6141	5.00	123625.000	0.6236	20.0	518361.000	0.6213
Methylene Chloride	2.00	30890.0000	0.3940	5.00	60073.0000	0.3030	20.0	228546.000	0.2740
Styrene	2.00	50686.0000	0.9833	5.00	133672.000	1.024	20.0	599855.000	1.097
Tetrachloroethene	2.00	13373.0000	0.2594	5.00	36376.0000	0.2786	20.0	154520.000	0.2825
Trichloroethene	2.00	20157.0000	0.2571	5.00	45951.0000	0.2318	20.0	205345.000	0.2461
Vinyl Acetate	2.00	37395.0000	0.4769	5.00	92660.0000	0.4674	20.0	414059.000	0.4963
cis-1,2-Dichloroethene	2.00	21372.0000	0.2726	5.00	54650.0000	0.2757	20.0	233209.000	0.2795
cis-1,3-Dichloropropene	2.00	30331.0000	0.3868	5.00	82462.0000	0.4159	20.0	355044.000	0.4256
m-,p-Xylene	4.00	70508.0000	0.6839	10.0	177033.000	0.6779	40.0	766250.000	0.7005
o-Xylene	2.00	34116.0000	0.6619	5.00	85256.0000	0.6529	20.0	363364.000	0.6644
trans-1,2-Dichloroethene	2.00	20908.0000	0.2667	5.00	53357.0000	0.2691	20.0	230105.000	0.2758

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-08			WG251532-09			WG251532-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	1358330.00	0.6364	100	2768992.00	0.6282	200	5351788.00	0.6087
1,2-Dichloropropane	50.0	666385.000	0.3122	100	1378462.00	0.3127	200	2646333.00	0.3010
Chloroform	50.0	1219971.00	0.5715	100	2470299.00	0.5604	200	4693723.00	0.5339
Ethylbenzene	50.0	811958.000	0.5700	100	1688680.00	0.5795	200	3271888.00	0.5543
Toluene	50.0	2287163.00	1.606	100	4789895.00	1.644	200	9297898.00	1.575
Vinyl Chloride	50.0	746728.000	0.3498	100	1474420.00	0.3345	200	2526768.00	0.2874
1,1,2,2-Tetrachloroethane	50.0	342935.000	0.4708	100	732844.000	0.4789	200	1407385.00	0.4472
1,1-Dichloroethane	50.0	1439098.00	0.6742	100	2975247.00	0.6750	200	5716785.00	0.6502
Bromoform	50.0	245089.000	0.1721	100	520920.000	0.1788	200	1001987.00	0.1698
Chlorobenzene	50.0	1424429.00	1.000	100	2995035.00	1.028	200	5893335.00	0.9984
Chloromethane	50.0	922415.000	0.4321	100	1824763.00	0.4140	200	3716884.00	0.4227
1,1,1-Trichloroethane	50.0	1204813.00	0.5644	100	2398980.00	0.5442	200	4428050.00	0.5036
1,1,2-Trichloroethane	50.0	345205.000	0.2423	100	716499.000	0.2459	200	1374339.00	0.2328
1,2,4-Trichlorobenzene	50.0	633338.000	0.8695	100	1299497.00	0.8492	200	2466328.00	0.7837
1,2-Dichlorobenzene	50.0	922841.000	1.267	100	1943041.00	1.270	200	3765189.00	1.196
1,2-Dichloroethane	50.0	1097447.00	0.5141	100	2211026.00	0.5016	200	4013581.00	0.4565
1,3-Dichlorobenzene	50.0	1071140.00	1.471	100	2217552.00	1.449	200	4425935.00	1.406
1,4-Dichlorobenzene	50.0	1077757.00	1.480	100	2240937.00	1.465	200	4410249.00	1.401
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50.0	139442.000	0.06530	100	294843.000	0.06690	200	540964.000	0.06150
2-Hexanone	50.0	219714.000	0.1542	100	473751.000	0.1626	200	868705.000	0.1472
4-Methyl-2-Pentanone	50.0	139434.000	0.06530	100	298847.000	0.06780	200	564567.000	0.06420
Acetone	50.0	103145.000	0.04830	100	224035.000	0.05080	200	374421.000	0.04260
Acrylonitrile	50.0	162744.000	0.07620	100	334602.000	0.07590	200	626355.000	0.07120
Benzene	50.0	2236743.00	1.048	100	4623566.00	1.049	200	8913761.00	1.014
Bromodichloromethane	50.0	880197.000	0.4124	100	1801325.00	0.4087	200	3398229.00	0.3865
Bromomethane	50.0	405016.000	0.1897	100	887551.000	0.2014	200	1763726.00	0.2006
Carbon Disulfide	50.0	1700768.00	0.7968	100	3574373.00	0.8109	200	6992893.00	0.7954
Carbon Tetrachloride	50.0	956758.000	0.4482	100	1933183.00	0.4386	200	3582234.00	0.4074
Chloroethane	50.0	537813.000	0.2520	100	1094406.00	0.2483	200	2100042.00	0.2389
Dibromochloromethane	50.0	476639.000	0.3346	100	1001787.00	0.3438	200	1911288.00	0.3238
Methyl Tert Butyl Ether	50.0	1333866.00	0.6249	100	2730573.00	0.6195	200	4976901.00	0.5661
Methylene Chloride	50.0	561775.000	0.2632	100	1150287.00	0.2610	200	2208724.00	0.2512
Styrene	50.0	1609485.00	1.130	100	3420981.00	1.174	200	6804235.00	1.153
Tetrachloroethene	50.0	404909.000	0.2843	100	821236.000	0.2818	200	1568099.00	0.2657
Trichloroethene	50.0	527492.000	0.2471	100	1085515.00	0.2463	200	2074840.00	0.2360
Vinyl Acetate	50.0	1090666.00	0.5110	100	2191151.00	0.4971	200	4015670.00	0.4567
cis-1,2-Dichloroethene	50.0	598151.000	0.2802	100	1235747.00	0.2803	200	2413546.00	0.2745
cis-1,3-Dichloropropene	50.0	929595.000	0.4355	100	1935212.00	0.4390	200	3726097.00	0.4238
m-,p-Xylene	100	2029456.00	0.7124	200	4227699.00	0.7254	400	8126794.00	0.6884
o-Xylene	50.0	962946.000	0.6760	100	2001020.00	0.6867	200	3979858.00	0.6742
trans-1,2-Dichloroethene	50.0	585527.000	0.2743	100	1203115.00	0.2729	200	2348922.00	0.2672

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-02			WG251532-03			WG251532-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	0.400	4463.00000	0.4281	1.00	12893.0000	0.5017

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-05			WG251532-06			WG251532-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	28922.0000	0.5611	5.00	76148.0000	0.5832	20.0	322114.000	0.5890

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS11

Analytical Method: 8260B **Initial Calibration Date:** 01-OCT-07 15:48

Column ID: F

Analyte	WG251532-08			WG251532-09			WG251532-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	861380.000	0.6047	100	1775450.00	0.6093	200	3349096.00	0.5674

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-02			WG249872-03			WG249872-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4587.00000	0.3224	1.00	10509.0000	0.2470
1,2-Dichloropropane	NA	NA	NA	0.400	2443.00000	0.1717	1.00	7498.00000	0.1762
Chloroform	0.300	5306.00000	0.4849	0.400	6619.00000	0.4652	1.00	18238.0000	0.4286
Ethylbenzene	NA	NA	NA	0.400	4601.00000	0.4183	1.00	11570.0000	0.3544
Toluene	NA	NA	NA	0.400	12098.0000	1.100	1.00	33469.0000	1.025
Vinyl Chloride	NA	NA	NA	0.400	5161.00000	0.3627	1.00	13902.0000	0.3267
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1960.00000	0.3084	1.00	6285.00000	0.3373
1,1-Dichloroethane	NA	NA	NA	0.400	5842.00000	0.4106	1.00	15792.0000	0.3712
Bromoform	NA	NA	NA	NA	NA	NA	1.00	4077.00000	0.1249
Chlorobenzene	NA	NA	NA	0.400	9843.00000	0.8949	1.00	25575.0000	0.7835
Chloromethane	NA	NA	NA	0.400	5507.00000	0.3871	1.00	16143.0000	0.3794
1,1,1-Trichloroethane	NA	NA	NA	0.400	5243.00000	0.3685	1.00	12283.0000	0.2887
1,1,2-Trichloroethane	NA	NA	NA	0.400	1824.00000	0.1658	1.00	6093.00000	0.1866
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	5365.00000	0.8441	1.00	15177.0000	0.8146
1,2-Dichlorobenzene	0.300	5332.00000	1.115	0.400	7270.00000	1.144	1.00	20554.0000	1.103
1,2-Dichloroethane	NA	NA	NA	0.400	4920.00000	0.3458	1.00	13308.0000	0.3128
1,3-Dichlorobenzene	NA	NA	NA	0.400	8316.00000	1.308	1.00	23090.0000	1.239
1,4-Dichlorobenzene	0.300	6962.00000	1.456	0.400	9221.00000	1.451	1.00	25048.0000	1.344
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	1.00	1487.00000	0.03490
Benzene	NA	NA	NA	0.400	12695.0000	0.8923	1.00	33087.0000	0.7776
Bromodichloromethane	NA	NA	NA	0.400	4443.00000	0.3123	1.00	12093.0000	0.2842
Bromomethane	NA	NA	NA	0.400	2927.00000	0.2057	1.00	8845.00000	0.2079
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	20458.0000	0.4808
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	10387.0000	0.2441
Chloroethane	NA	NA	NA	0.400	2123.00000	0.1492	1.00	7292.00000	0.1714
Dibromochloromethane	NA	NA	NA	0.400	2369.00000	0.2154	1.00	7410.00000	0.2270
Methyl Tert Butyl Ether	NA	NA	NA	0.400	5604.00000	0.3939	1.00	17178.0000	0.4037
Methylene Chloride	NA	NA	NA	0.400	12173.0000	0.8556	1.00	20363.0000	0.4786
Styrene	NA	NA	NA	NA	NA	NA	1.00	23705.0000	0.7262
Tetrachloroethene	NA	NA	NA	0.400	3276.00000	0.2978	1.00	8282.00000	0.2537
Trichloroethene	NA	NA	NA	0.400	2984.00000	0.2097	1.00	7952.00000	0.1869
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	2711.00000	0.1905	1.00	8903.00000	0.2092
cis-1,3-Dichloropropene	NA	NA	NA	0.400	3607.00000	0.2535	1.00	11014.0000	0.2589
m-,p-Xylene	NA	NA	NA	0.800	10614.0000	0.4825	2.00	30411.0000	0.4658
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	13924.0000	0.4265
trans-1,2-Dichloroethene	NA	NA	NA	0.400	2956.00000	0.2078	1.00	7897.00000	0.1856

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-05			WG249872-06			WG249872-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	73426.0000	0.3307	20.0	296889.000	0.3751	50.0	875967.000	0.4080
1,2-Dichloropropane	5.00	44962.0000	0.2025	20.0	165544.000	0.2092	50.0	469705.000	0.2188
Chloroform	5.00	101921.000	0.4590	20.0	390963.000	0.4940	50.0	1098963.00	0.5118
Ethylbenzene	5.00	75835.0000	0.4432	20.0	291384.000	0.4753	50.0	855098.000	0.5166
Toluene	5.00	206972.000	1.210	20.0	776896.000	1.267	50.0	2220874.00	1.342
Vinyl Chloride	5.00	55168.0000	0.2485	20.0	237945.000	0.3006	50.0	586472.000	0.2731
1,1,2,2-Tetrachloroethane	5.00	35441.0000	0.3599	20.0	134784.000	0.3621	50.0	361810.000	0.3586
1,1-Dichloroethane	5.00	91449.0000	0.4119	20.0	346748.000	0.4381	50.0	982845.000	0.4578
Bromoform	5.00	24306.0000	0.1421	20.0	111372.000	0.1817	50.0	308290.000	0.1862
Chlorobenzene	5.00	144875.000	0.8467	20.0	542648.000	0.8852	50.0	1536707.00	0.9283
Chloromethane	5.00	64135.0000	0.2888	20.0	264153.000	0.3337	50.0	659813.000	0.3073
1,1,1-Trichloroethane	5.00	85535.0000	0.3852	20.0	353270.000	0.4463	50.0	1060915.00	0.4941
1,1,2-Trichloroethane	5.00	33624.0000	0.1965	20.0	124586.000	0.2032	50.0	338680.000	0.2046
1,2,4-Trichlorobenzene	5.00	87845.0000	0.8920	20.0	342517.000	0.9201	50.0	973493.000	0.9648
1,2-Dichlorobenzene	5.00	118945.000	1.208	20.0	456353.000	1.226	50.0	1288265.00	1.277
1,2-Dichloroethane	5.00	72374.0000	0.3259	20.0	278328.000	0.3517	50.0	742911.000	0.3460
1,3-Dichlorobenzene	5.00	134831.000	1.369	20.0	512510.000	1.377	50.0	1476949.00	1.464
1,4-Dichlorobenzene	5.00	138818.000	1.410	20.0	526459.000	1.414	50.0	1496412.00	1.483
1,4-Dioxane	50.0	1712.00000	0.0008000	100	3079.00000	0.0008000	200	6351.00000	0.0007000
2-Butanone	5.00	10119.0000	0.04560	20.0	37936.0000	0.04790	50.0	104719.000	0.04880
2-Hexanone	5.00	13780.0000	0.08050	20.0	55993.0000	0.09130	50.0	153546.000	0.09280
4-Methyl-2-Pentanone	5.00	7723.00000	0.03480	20.0	31426.0000	0.03970	50.0	84800.0000	0.03950
Acetone	5.00	9187.00000	0.04140	20.0	30631.0000	0.03870	50.0	78983.0000	0.03680
Acrylonitrile	5.00	9168.00000	0.04130	20.0	36958.0000	0.04670	50.0	99113.0000	0.04620
Benzene	5.00	193166.000	0.8699	20.0	711466.000	0.8989	50.0	2047087.00	0.9534
Bromodichloromethane	5.00	72153.0000	0.3250	20.0	283759.000	0.3585	50.0	779590.000	0.3631
Bromomethane	5.00	42982.0000	0.1936	20.0	150427.000	0.1901	50.0	433407.000	0.2019
Carbon Disulfide	5.00	136281.000	0.6138	20.0	576926.000	0.7289	50.0	1629993.00	0.7592
Carbon Tetrachloride	5.00	74245.0000	0.3344	20.0	323533.000	0.4088	50.0	975594.000	0.4544
Chloroethane	5.00	37590.0000	0.1693	20.0	141782.000	0.1791	50.0	386664.000	0.1801
Dibromochloromethane	5.00	43947.0000	0.2568	20.0	180891.000	0.2951	50.0	501803.000	0.3031
Methyl Tert Butyl Ether	5.00	98584.0000	0.4440	20.0	371498.000	0.4694	50.0	1023487.00	0.4767
Methylene Chloride	5.00	63825.0000	0.2874	20.0	194000.000	0.2451	50.0	526089.000	0.2450
Styrene	5.00	153759.000	0.8986	20.0	607970.000	0.9917	50.0	1744873.00	1.054
Tetrachloroethene	5.00	53161.0000	0.3107	20.0	215789.000	0.3520	50.0	632671.000	0.3822
Trichloroethene	5.00	51483.0000	0.2319	20.0	193231.000	0.2441	50.0	574353.000	0.2675
Vinyl Acetate	5.00	48834.0000	0.2199	20.0	193826.000	0.2449	50.0	536611.000	0.2499
cis-1,2-Dichloroethene	5.00	54663.0000	0.2462	20.0	202686.000	0.2561	50.0	588377.000	0.2740
cis-1,3-Dichloropropene	5.00	72138.0000	0.3249	20.0	289025.000	0.3652	50.0	820320.000	0.3821
m-,p-Xylene	10.0	193375.000	0.5651	40.0	742040.000	0.6052	100	2160563.00	0.6526
o-Xylene	5.00	90773.0000	0.5305	20.0	355940.000	0.5806	50.0	1027533.00	0.6207
trans-1,2-Dichloroethene	5.00	49921.0000	0.2248	20.0	185785.000	0.2347	50.0	553860.000	0.2580

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-08			WG249872-09			WG249872-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	1844901.00	0.4046	200	4171118.00	0.4027	NA	NA	NA
1,2-Dichloropropane	100	1018665.00	0.2234	200	2261053.00	0.2183	NA	NA	NA
Chloroform	100	2325133.00	0.5099	200	5073981.00	0.4898	NA	NA	NA
Ethylbenzene	100	1943185.00	0.5205	200	4180248.00	0.5083	NA	NA	NA
Toluene	100	4768565.00	1.277	200	10010811.0	1.217	NA	NA	NA
Vinyl Chloride	100	1018453.00	0.2233	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	868416.000	0.3688	200	1824066.00	0.3648	NA	NA	NA
1,1-Dichloroethane	100	2088847.00	0.4581	200	4616213.00	0.4457	NA	NA	NA
Bromoform	100	775730.000	0.2078	200	1624697.00	0.1976	NA	NA	NA
Chlorobenzene	100	3500774.00	0.9378	200	7356575.00	0.8946	NA	NA	NA
Chloromethane	100	1322803.00	0.2901	200	2789620.00	0.2693	NA	NA	NA
1,1,1-Trichloroethane	100	2230113.00	0.4891	200	4888261.00	0.4719	NA	NA	NA
1,1,2-Trichloroethane	100	779367.000	0.2088	200	1688582.00	0.2053	NA	NA	NA
1,2,4-Trichlorobenzene	100	2173845.00	0.9231	200	4425871.00	0.8852	NA	NA	NA
1,2-Dichlorobenzene	100	2989493.00	1.269	200	6011828.00	1.202	NA	NA	NA
1,2-Dichloroethane	100	1548524.00	0.3396	200	3310321.00	0.3196	NA	NA	NA
1,3-Dichlorobenzene	100	3492354.00	1.483	200	7033954.00	1.407	NA	NA	NA
1,4-Dichlorobenzene	100	3480417.00	1.478	200	6973813.00	1.395	NA	NA	NA
1,4-Dioxane	400	18547.0000	0.001000	600	35881.0000	0.001200	800	44101.0000	0.001100
2-Butanone	100	241378.000	0.05290	200	534216.000	0.05160	300	756176.000	0.04910
2-Hexanone	100	400822.000	0.1074	200	819435.000	0.09960	300	1249972.00	0.1037
4-Methyl-2-Pentanone	100	217085.000	0.04760	200	461814.000	0.04460	300	673386.000	0.04370
Acetone	100	172771.000	0.03790	200	368986.000	0.03560	300	492778.000	0.03200
Acrylonitrile	100	222299.000	0.04880	200	503045.000	0.04860	300	661898.000	0.04300
Benzene	100	4331776.00	0.9500	200	9315419.00	0.8993	NA	NA	NA
Bromodichloromethane	100	1708315.00	0.3746	200	3744091.00	0.3615	NA	NA	NA
Bromomethane	100	969430.000	0.2126	200	2178767.00	0.2103	NA	NA	NA
Carbon Disulfide	100	3672935.00	0.8055	200	7849495.00	0.7578	NA	NA	NA
Carbon Tetrachloride	100	2045132.00	0.4485	200	4442000.00	0.4288	NA	NA	NA
Chloroethane	100	867889.000	0.1903	200	1914928.00	0.1849	NA	NA	NA
Dibromochloromethane	100	1199284.00	0.3213	200	2587493.00	0.3147	NA	NA	NA
Methyl Tert Butyl Ether	100	2200460.00	0.4826	200	4963290.00	0.4792	NA	NA	NA
Methylene Chloride	100	1129271.00	0.2476	200	2517463.00	0.2430	NA	NA	NA
Styrene	100	4106973.00	1.100	200	8429320.00	1.025	NA	NA	NA
Tetrachloroethene	100	1364498.00	0.3655	200	2997366.00	0.3645	NA	NA	NA
Trichloroethene	100	1254555.00	0.2751	200	2802802.00	0.2706	NA	NA	NA
Vinyl Acetate	100	1142359.00	0.2505	200	2555538.00	0.2467	NA	NA	NA
cis-1,2-Dichloroethene	100	1263004.00	0.2770	200	2814758.00	0.2717	NA	NA	NA
cis-1,3-Dichloropropene	100	1804707.00	0.3958	200	3976552.00	0.3839	NA	NA	NA
m-,p-Xylene	200	4824787.00	0.6462	400	9884957.00	0.6010	NA	NA	NA
o-Xylene	100	2384256.00	0.6387	200	5067807.00	0.6163	NA	NA	NA
trans-1,2-Dichloroethene	100	1192030.00	0.2614	200	2669119.00	0.2577	NA	NA	NA

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-02			WG249872-03			WG249872-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	0.400	3508.00000	0.3189	1.00	10465.0000	0.3206

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-05			WG249872-06			WG249872-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	65243.0000	0.3813	20.0	265895.000	0.4337	50.0	731107.000	0.4417

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 12-SEP-07 17:13

Column ID: F

Analyte	WG249872-08			WG249872-09			WG249872-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	1649506.00	0.4419	200	3595358.00	0.4372	NA	NA	NA

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-02			WG247666-03			WG247666-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	2.00	5138.00000	0.2078
1,2-Dichloropropane	NA	NA	NA	1.00	2850.00000	0.2410	2.00	5496.00000	0.2223
Chloroform	NA	NA	NA	1.00	6347.00000	0.5368	2.00	11688.0000	0.4727
Ethylbenzene	NA	NA	NA	1.00	4720.00000	0.4838	2.00	8964.00000	0.4437
Toluene	NA	NA	NA	1.00	13636.0000	1.398	2.00	25218.0000	1.248
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	5534.00000	0.2238
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	2518.00000	0.4757	2.00	4949.00000	0.4528
1,1-Dichloroethane	NA	NA	NA	1.00	6371.00000	0.5388	2.00	11640.0000	0.4707
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	1.00	10158.0000	1.041	2.00	19220.0000	0.9514
Chloromethane	NA	NA	NA	NA	NA	NA	2.00	7223.00000	0.2921
1,1,1-Trichloroethane	NA	NA	NA	1.00	5315.00000	0.4495	2.00	10793.0000	0.4365
1,1,2-Trichloroethane	NA	NA	NA	1.00	2192.00000	0.2247	2.00	5063.00000	0.2506
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	4772.00000	0.9015	2.00	8488.00000	0.7765
1,2-Dichlorobenzene	NA	NA	NA	1.00	7214.00000	1.363	2.00	13493.0000	1.234
1,2-Dichloroethane	NA	NA	NA	1.00	4936.00000	0.4175	2.00	9031.00000	0.3652
1,3-Dichlorobenzene	NA	NA	NA	1.00	8149.00000	1.540	2.00	13881.0000	1.270
1,4-Dichlorobenzene	NA	NA	NA	1.00	9124.00000	1.724	2.00	15805.0000	1.446
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	1.00	13062.0000	1.105	2.00	24454.0000	0.9889
Bromodichloromethane	NA	NA	NA	1.00	3791.00000	0.3206	2.00	7107.00000	0.2874
Bromomethane	NA	NA	NA	NA	NA	NA	2.00	4289.00000	0.1735
Carbon Disulfide	NA	NA	NA	1.00	10373.0000	0.8773	2.00	18405.0000	0.7443
Carbon Tetrachloride	NA	NA	NA	1.00	4530.00000	0.3831	2.00	8109.00000	0.3279
Chloroethane	NA	NA	NA	NA	NA	NA	2.00	3688.00000	0.1491
Dibromochloromethane	NA	NA	NA	1.00	2425.00000	0.2486	2.00	5462.00000	0.2704
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	16418.0000	0.6640
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	9783.00000	0.3956
Styrene	NA	NA	NA	1.00	7337.00000	0.7520	2.00	14376.0000	0.7116
Tetrachloroethene	NA	NA	NA	1.00	3147.00000	0.3226	2.00	5504.00000	0.2725
Trichloroethene	NA	NA	NA	1.00	3902.00000	0.3300	2.00	7125.00000	0.2881
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	12468.0000	0.5042
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3356.00000	0.2838	2.00	6567.00000	0.2656
cis-1,3-Dichloropropene	NA	NA	NA	1.00	3996.00000	0.3380	2.00	8421.00000	0.3406
m-,p-Xylene	1.00	6218.00000	0.5264	2.00	11873.0000	0.6085	4.00	21822.0000	0.5401
o-Xylene	NA	NA	NA	1.00	4955.00000	0.5079	2.00	9265.00000	0.4586
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3430.00000	0.2901	2.00	6441.00000	0.2605

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-05			WG247666-06			WG247666-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	14875.0000	0.2351	10.0	31107.0000	0.2406	20.0	68490.0000	0.2678
1,2-Dichloropropane	5.00	15882.0000	0.2510	10.0	30747.0000	0.2378	20.0	65763.0000	0.2572
Chloroform	5.00	30945.0000	0.4891	10.0	62326.0000	0.4820	20.0	130336.000	0.5097
Ethylbenzene	5.00	24930.0000	0.4774	10.0	52348.0000	0.4926	20.0	111138.000	0.5352
Toluene	5.00	71672.0000	1.373	10.0	143297.000	1.349	20.0	302742.000	1.458
Vinyl Chloride	5.00	13539.0000	0.2140	10.0	25395.0000	0.1964	20.0	55767.0000	0.2181
1,1,2,2-Tetrachloroethane	5.00	14825.0000	0.5233	10.0	28991.0000	0.4976	20.0	57588.0000	0.5098
1,1-Dichloroethane	5.00	32792.0000	0.5183	10.0	64311.0000	0.4974	20.0	134603.000	0.5264
Bromoform	5.00	8692.00000	0.1665	10.0	17608.0000	0.1657	20.0	37303.0000	0.1796
Chlorobenzene	5.00	50583.0000	0.9687	10.0	101298.000	0.9532	20.0	204989.000	0.9871
Chloromethane	5.00	18421.0000	0.2912	10.0	36719.0000	0.2840	20.0	77875.0000	0.3045
1,1,1-Trichloroethane	5.00	29429.0000	0.4652	10.0	59656.0000	0.4614	20.0	129329.000	0.5057
1,1,2-Trichloroethane	5.00	13767.0000	0.2636	10.0	27062.0000	0.2547	20.0	53720.0000	0.2587
1,2,4-Trichlorobenzene	5.00	23749.0000	0.8383	10.0	48809.0000	0.8378	20.0	97909.0000	0.8668
1,2-Dichlorobenzene	5.00	36681.0000	1.295	10.0	73297.0000	1.258	20.0	146664.000	1.298
1,2-Dichloroethane	5.00	24924.0000	0.3940	10.0	49332.0000	0.3815	20.0	97816.0000	0.3825
1,3-Dichlorobenzene	5.00	40247.0000	1.421	10.0	80426.0000	1.381	20.0	161676.000	1.431
1,4-Dichlorobenzene	5.00	41186.0000	1.454	10.0	80171.0000	1.376	20.0	163360.000	1.446
1,4-Dioxane	NA	NA	NA	100	1819.00000	0.001400	150	2945.00000	0.001500
2-Butanone	5.00	8046.00000	0.1272	10.0	16062.0000	0.1242	20.0	29863.0000	0.1168
2-Hexanone	5.00	10139.0000	0.1942	10.0	21872.0000	0.2058	20.0	41727.0000	0.2009
4-Methyl-2-Pentanone	5.00	5269.00000	0.08330	10.0	10844.0000	0.08390	20.0	21972.0000	0.08590
Acetone	5.00	9707.00000	0.1534	10.0	14059.0000	0.1087	20.0	22443.0000	0.08780
Acrylonitrile	5.00	5224.00000	0.08260	10.0	10815.0000	0.08360	20.0	21781.0000	0.08520
Benzene	5.00	65434.0000	1.034	10.0	132547.000	1.025	20.0	277331.000	1.085
Bromodichloromethane	5.00	20052.0000	0.3170	10.0	41393.0000	0.3201	20.0	87611.0000	0.3426
Bromomethane	5.00	9732.00000	0.1538	10.0	19522.0000	0.1510	20.0	40211.0000	0.1572
Carbon Disulfide	5.00	53202.0000	0.8410	10.0	102702.000	0.7943	20.0	223592.000	0.8744
Carbon Tetrachloride	5.00	23649.0000	0.3738	10.0	49487.0000	0.3827	20.0	112791.000	0.4411
Chloroethane	5.00	10013.0000	0.1583	10.0	21370.0000	0.1653	20.0	47599.0000	0.1861
Dibromochloromethane	5.00	15353.0000	0.2940	10.0	31988.0000	0.3010	20.0	67726.0000	0.3261
Methyl Tert Butyl Ether	5.00	45299.0000	0.7160	10.0	87750.0000	0.6786	20.0	176083.000	0.6886
Methylene Chloride	5.00	19874.0000	0.3141	10.0	39027.0000	0.3018	20.0	71004.0000	0.2777
Styrene	5.00	44443.0000	0.8511	10.0	94385.0000	0.8882	20.0	200390.000	0.9649
Tetrachloroethene	5.00	15523.0000	0.2973	10.0	30586.0000	0.2878	20.0	64846.0000	0.3123
Trichloroethene	5.00	19827.0000	0.3134	10.0	39948.0000	0.3089	20.0	86385.0000	0.3378
Vinyl Acetate	5.00	33411.0000	0.5281	10.0	74080.0000	0.5729	20.0	139377.000	0.5450
cis-1,2-Dichloroethene	5.00	17946.0000	0.2837	10.0	35963.0000	0.2781	20.0	77229.0000	0.3020
cis-1,3-Dichloropropene	5.00	23535.0000	0.3720	10.0	48434.0000	0.3746	20.0	103271.000	0.4038
m-,p-Xylene	10.0	62268.0000	0.5962	20.0	125789.000	0.5919	40.0	267461.000	0.6439
o-Xylene	5.00	28187.0000	0.5398	10.0	58998.0000	0.5552	20.0	125084.000	0.6023
trans-1,2-Dichloroethene	5.00	17259.0000	0.2728	10.0	35075.0000	0.2713	20.0	76350.0000	0.2986

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-08			WG247666-09			WG247666-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	183254.000	0.2776	100	360133.000	0.2618	200	705735.000	0.2396
1,2-Dichloropropane	50.0	176504.000	0.2673	100	342111.000	0.2487	200	682026.000	0.2315
Chloroform	50.0	338189.000	0.5122	100	651552.000	0.4737	200	1273387.00	0.4323
Ethylbenzene	50.0	294496.000	0.5393	100	576165.000	0.5103	200	1096359.00	0.4602
Toluene	50.0	799517.000	1.464	100	1563303.00	1.385	200	2968645.00	1.246
Vinyl Chloride	50.0	132627.000	0.2009	100	243329.000	0.1769	NA	NA	NA
1,1,2,2-Tetrachloroethane	50.0	159484.000	0.5309	100	289066.000	0.4767	200	595015.000	0.4702
1,1-Dichloroethane	50.0	354244.000	0.5366	100	685878.000	0.4987	200	1339085.00	0.4546
Bromoform	50.0	110668.000	0.2027	100	216193.000	0.1915	200	431684.000	0.1812
Chlorobenzene	50.0	548531.000	1.005	100	1060166.00	0.9390	200	2023035.00	0.8492
Chloromethane	50.0	199178.000	0.3017	100	382956.000	0.2784	200	726280.000	0.2466
1,1,1-Trichloroethane	50.0	338064.000	0.5121	100	657718.000	0.4782	200	1257952.00	0.4271
1,1,2-Trichloroethane	50.0	145373.000	0.2662	100	278880.000	0.2470	200	555444.000	0.2332
1,2,4-Trichlorobenzene	50.0	274370.000	0.9133	100	523059.000	0.8625	200	1007517.00	0.7962
1,2-Dichlorobenzene	50.0	398621.000	1.327	100	760464.000	1.254	200	1460417.00	1.154
1,2-Dichloroethane	50.0	257877.000	0.3906	100	482650.000	0.3509	200	941425.000	0.3196
1,3-Dichlorobenzene	50.0	437305.000	1.456	100	846105.000	1.395	200	1589102.00	1.256
1,4-Dichlorobenzene	50.0	440787.000	1.467	100	848613.000	1.399	200	1592311.00	1.258
1,4-Dioxane	200	4578.00000	0.001700	400	10812.0000	0.002000	800	25027.0000	0.002100
2-Butanone	50.0	82648.0000	0.1252	100	145385.000	0.1057	200	326858.000	0.1110
2-Hexanone	50.0	125489.000	0.2298	100	213276.000	0.1889	200	454878.000	0.1909
4-Methyl-2-Pentanone	50.0	64775.0000	0.09810	100	115477.000	0.08400	200	253038.000	0.08590
Acetone	50.0	54075.0000	0.08190	100	97297.0000	0.07070	200	205499.000	0.06980
Acrylonitrile	50.0	61336.0000	0.09290	100	118174.000	0.08590	200	260935.000	0.08860
Benzene	50.0	728751.000	1.104	100	1419556.00	1.032	200	2723816.00	0.9247
Bromodichloromethane	50.0	236809.000	0.3587	100	462577.000	0.3363	200	918456.000	0.3118
Bromomethane	50.0	99932.0000	0.1514	100	193021.000	0.1403	200	346491.000	0.1176
Carbon Disulfide	50.0	590944.000	0.8951	100	1186212.00	0.8624	200	2299960.00	0.7808
Carbon Tetrachloride	50.0	304944.000	0.4619	100	604504.000	0.4395	200	1171227.00	0.3976
Chloroethane	50.0	117147.000	0.1774	100	231785.000	0.1685	200	440066.000	0.1494
Dibromochloromethane	50.0	194209.000	0.3556	100	380562.000	0.3371	200	766916.000	0.3219
Methyl Tert Butyl Ether	50.0	480418.000	0.7277	100	932210.000	0.6777	200	1953709.00	0.6633
Methylene Chloride	50.0	180130.000	0.2728	100	346971.000	0.2523	200	671193.000	0.2279
Styrene	50.0	554391.000	1.015	100	1092334.00	0.9675	200	2071195.00	0.8694
Tetrachloroethene	50.0	174803.000	0.3201	100	339043.000	0.3003	200	657621.000	0.2760
Trichloroethene	50.0	230332.000	0.3489	100	455903.000	0.3315	200	886102.000	0.3008
Vinyl Acetate	50.0	388173.000	0.5880	100	744859.000	0.5415	200	1543838.00	0.5241
cis-1,2-Dichloroethene	50.0	207440.000	0.3142	100	404406.000	0.2940	200	799214.000	0.2713
cis-1,3-Dichloropropene	50.0	283058.000	0.4287	100	550976.000	0.4006	200	1093319.00	0.3712
m-,p-Xylene	100	719081.000	0.6584	200	1410638.00	0.6247	400	2617273.00	0.5493
o-Xylene	50.0	339346.000	0.6214	100	664243.000	0.5883	200	1259660.00	0.5288
trans-1,2-Dichloroethene	50.0	203609.000	0.3084	100	399507.000	0.2905	200	782075.000	0.2655

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	1000	27703.0000	0.002000
2-Butanone	300	425903.000	0.1029
2-Hexanone	300	582879.000	0.1753
4-Methyl-2-Pentanone	300	340663.000	0.08230
Acetone	300	261331.000	0.06310
Acrylonitrile	300	323168.000	0.07810
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-02			WG247666-03			WG247666-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	3849.00000	0.3945	2.00	7618.00000	0.3771

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-05			WG247666-06			WG247666-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	22626.0000	0.4333	10.0	46688.0000	0.4393	20.0	98322.0000	0.4734

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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 14-AUG-07 16:27

Column ID: F

Analyte	WG247666-08			WG247666-09			WG247666-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	265653.000	0.4865	100	508231.000	0.4501	200	997490.000	0.4187

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Version 1.6 PDF File ID: 906105
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KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626
Instrument ID: HPMS9
Analytical Method: 8260B
Initial Calibration Date: 14-AUG-07 16:27
Column ID: F

Analyte	WG247666-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

KEMRON FORMS - Modified 10/13/2006
Version 1.6 PDF File ID: 906105
Report generated 10/16/2007 16:38

KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 10/01/2007 Sample ID: WG251532-11
Instrument ID: HPMS11 Run Time: 20:02 Method: 8260B
File ID: 11M46067 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG251532 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/L	0.624	2.60	25	
1,2-Dichloropropane	CCC	20.0	21.3	ug/L	0.314	6.60	25	
Chloroform	CCC	20.0	20.9	ug/L	0.567	4.30	25	
Ethylbenzene	CCC	20.0	22.1	ug/L	0.582	10.4	25	
Toluene	CCC	20.0	21.7	ug/L	1.65	8.50	25	
Vinyl Chloride	CCC	20.0	19.9	ug/L	0.369	0.500	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.8	ug/L	0.481	3.90	25	
1,1-Dichloroethane	SPCC	20.0	20.9	ug/L	0.672	4.70	25	
Bromoform	SPCC	20.0	19.5	ug/L	0.155	2.60	25	
Chlorobenzene	SPCC	20.0	20.9	ug/L	1.03	4.30	25	
Chloromethane	SPCC	20.0	20.1	ug/L	0.450	0.700	25	
1,1,1-Trichloroethane		20.0	20.7	ug/L	0.539	3.50	25	
1,1,2-Trichloroethane		20.0	22.1	ug/L	0.253	10.6	25	
1,2,4-Trichlorobenzene		20.0	21.1	ug/L	0.869	5.60	25	
1,2-Dichlorobenzene		20.0	20.8	ug/L	1.26	4.00	25	
1,2-Dichloroethane		20.0	19.7	ug/L	0.492	1.60	25	
1,3-Dichlorobenzene		20.0	21.5	ug/L	1.48	7.70	25	
1,4-Dichlorobenzene		20.0	21.1	ug/L	1.48	5.70	25	
2-Butanone		20.0	19.4	ug/L	0.0639	3.00	25	
2-Hexanone		20.0	18.8	ug/L	0.146	6.20	25	
4-Methyl-2-Pentanone		20.0	19.4	ug/L	0.0631	3.00	25	
Acetone		20.0	20.2	ug/L	0.0504	0.800	25	
Acrylonitrile		20.0	19.8	ug/L	0.0741	0.900	25	
Benzene		20.0	21.2	ug/L	1.06	6.20	25	
Bromodichloromethane		20.0	21.2	ug/L	0.405	5.90	25	
Bromomethane		20.0	24.7	ug/L	0.216	23.4	25	
Carbon Disulfide		20.0	19.2	ug/L	0.748	4.00	25	
Carbon Tetrachloride		20.0	18.5	ug/L	0.422	7.50	25	
Dibromochloromethane		20.0	21.3	ug/L	0.321	6.70	25	
Chloroethane		20.0	22.3	ug/L	0.275	11.3	25	
cis-1,2-Dichloroethene		20.0	21.9	ug/L	0.286	9.50	25	
cis-1,3-Dichloropropene		20.0	21.4	ug/L	0.428	7.20	25	
Methylene Chloride		20.0	20.3	ug/L	0.279	1.50	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/L	0.647	6.20	25	
Styrene		20.0	20.3	ug/L	1.15	1.50	25	
Tetrachloroethene		20.0	19.9	ug/L	0.288	0.300	25	
trans-1,2-Dichloroethene		20.0	20.7	ug/L	0.269	3.50	25	
trans-1,3-Dichloropropene		20.0	19.8	ug/L	0.551	0.900	25	
Trichloroethene		20.0	21.5	ug/L	0.250	7.60	25	
Vinyl Acetate		20.0	11.9	ug/L	0.289	40.3	25	*
Xylenes		60.0	64.5	ug/L	0.699	7.40	25	
m-,p-Xylene		40.0	43.2	ug/L	0.720	8.00	25	

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Version 1.5 PDF File ID: 886550
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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 10/01/2007 Sample ID: WG251532-11
Instrument ID: HPMS11 Run Time: 20:02 Method: 8260B
File ID: 11M46067 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG251532 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	42.6	ug/L	0.278	6.50	25	
o-Xylene		20.0	21.2	ug/L	0.677	6.20	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (ALT)
Version 1.5 PDF File ID: 886550
Report generated 10/16/2007 16:38

KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 09/12/2007 Sample ID: WG249872-11
Instrument ID: HPMS6 Run Time: 17:45 Method: 8260B
File ID: 6M68879 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG249872 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	21.1	ug/L	0.417	5.40	25	
1,2-Dichloropropane	CCC	20.0	21.8	ug/L	0.222	9.20	25	
Chloroform	CCC	20.0	21.1	ug/L	0.507	5.40	25	
Ethylbenzene	CCC	20.0	22.4	ug/L	0.518	11.9	25	
Toluene	CCC	20.0	22.7	ug/L	1.37	13.4	25	
Vinyl Chloride	CCC	20.0	19.1	ug/L	0.287	4.30	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	21.7	ug/L	0.381	8.50	25	
1,1-Dichloroethane	SPCC	20.0	21.6	ug/L	0.462	8.00	25	
Bromoform	SPCC	20.0	17.9	ug/L	0.169	10.6	25	
Chlorobenzene	SPCC	20.0	21.2	ug/L	0.933	5.80	25	
Chloromethane	SPCC	20.0	20.4	ug/L	0.329	2.20	25	
1,1,1-Trichloroethane		20.0	19.5	ug/L	0.472	2.30	25	
1,1,2-Trichloroethane		20.0	21.9	ug/L	0.214	9.40	25	
1,2,4-Trichlorobenzene		20.0	21.7	ug/L	0.970	8.70	25	
1,2-Dichlorobenzene		20.0	21.7	ug/L	1.29	8.40	25	
1,2-Dichloroethane		20.0	20.5	ug/L	0.343	2.50	25	
1,3-Dichlorobenzene		20.0	20.9	ug/L	1.44	4.70	25	
1,4-Dichlorobenzene		20.0	20.4	ug/L	1.46	2.00	25	
1,4-Dioxane		200	221	ug/L	0.00210	10.5	25	
2-Butanone		20.0	22.8	ug/L	0.0561	13.8	25	
2-Hexanone		20.0	19.7	ug/L	0.0943	1.60	25	
4-Methyl-2-Pentanone		20.0	18.9	ug/L	0.0393	5.60	25	
Acetone		20.0	24.1	ug/L	0.0446	20.4	25	
Acrylonitrile		20.0	22.3	ug/L	0.0492	11.4	25	
Benzene		20.0	21.8	ug/L	0.974	9.20	25	
Bromodichloromethane		20.0	21.6	ug/L	0.368	8.20	25	
Bromomethane		20.0	22.2	ug/L	0.226	11.1	25	
Carbon Disulfide		20.0	19.0	ug/L	0.729	4.80	25	
Carbon Tetrachloride		20.0	19.7	ug/L	0.432	1.30	25	
Dibromochloromethane		20.0	19.2	ug/L	0.294	3.90	25	
Chloroethane		20.0	22.5	ug/L	0.197	12.4	25	
cis-1,2-Dichloroethene		20.0	22.8	ug/L	0.281	14.0	25	
cis-1,3-Dichloropropene		20.0	19.3	ug/L	0.368	3.40	25	
Methylene Chloride		20.0	20.5	ug/L	0.260	2.70	25	
Methyl Tert Butyl Ether		20.0	21.8	ug/L	0.492	9.20	25	
Styrene		20.0	21.8	ug/L	1.05	8.80	25	
Tetrachloroethene		20.0	22.6	ug/L	0.376	13.2	25	
trans-1,2-Dichloroethene		20.0	21.8	ug/L	0.254	8.90	25	
trans-1,3-Dichloropropene		20.0	20.3	ug/L	0.403	1.60	25	
Trichloroethene		20.0	22.5	ug/L	0.271	12.7	25	
Vinyl Acetate		20.0	28.6	ug/L	0.346	42.8	25	*
Xylenes		60.0	66.8	ug/L	0.631	11.4	25	

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 09/12/2007 Sample ID: WG249872-11
Instrument ID: HPMS6 Run Time: 17:45 Method: 8260B
File ID: 6M68879 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG249872 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
m-,p-Xylene		40.0	45.3	ug/L	0.650	13.1	25	
o-Xylene		20.0	21.6	ug/L	0.613	7.80	25	
1,2-Dichloroethene		40.0	44.6	ug/L	0.267	11.4	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 08/14/2007 Sample ID: WG247666-12
Instrument ID: HPMS9 Run Time: 18:01 Method: 8260B
File ID: 9M56020 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	23.7	ug/kg	0.293	18.6	25	
1,2-Dichloropropane	CCC	20.0	22.8	ug/kg	0.279	14.0	25	
Chloroform	CCC	20.0	21.0	ug/kg	0.513	4.90	25	
Ethylbenzene	CCC	20.0	22.8	ug/kg	0.561	13.8	25	
Toluene	CCC	20.0	22.4	ug/kg	1.53	11.9	25	
Vinyl Chloride	CCC	20.0	22.6	ug/kg	0.232	13.2	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.3	ug/kg	0.549	11.5	25	
1,1-Dichloroethane	SPCC	20.0	21.1	ug/kg	0.534	5.60	25	
Bromoform	SPCC	20.0	21.1	ug/kg	0.191	5.40	25	
Chlorobenzene	SPCC	20.0	21.7	ug/kg	1.04	8.50	25	
Chloromethane	SPCC	20.0	24.3	ug/kg	0.347	21.7	25	
1,1,1-Trichloroethane		20.0	21.4	ug/kg	0.501	7.20	25	
1,1,2-Trichloroethane		20.0	22.5	ug/kg	0.281	12.5	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.908	7.00	25	
1,2-Dichlorobenzene		20.0	21.6	ug/kg	1.37	7.80	25	
1,2-Dichloroethane		20.0	20.2	ug/kg	0.380	1.20	25	
1,3-Dichlorobenzene		20.0	21.8	ug/kg	1.52	8.90	25	
1,4-Dichlorobenzene		20.0	21.3	ug/kg	1.54	6.50	25	
2-Butanone		20.0	20.3	ug/kg	0.118	1.50	25	
2-Hexanone		20.0	21.8	ug/kg	0.216	9.00	25	
4-Methyl-2-Pentanone		20.0	22.7	ug/kg	0.0980	13.7	25	
Acetone		20.0	22.2	ug/kg	0.0985	11.0	25	
Acrylonitrile		20.0	21.2	ug/kg	0.0903	5.90	25	
Benzene		20.0	22.2	ug/kg	1.15	11.1	25	
Bromodichloromethane		20.0	22.1	ug/kg	0.358	10.3	25	
Bromomethane		20.0	22.7	ug/kg	0.170	13.6	25	
Carbon Disulfide		20.0	19.2	ug/kg	0.802	3.80	25	
Carbon Tetrachloride		20.0	22.1	ug/kg	0.442	10.3	25	
Dibromochloromethane		20.0	22.1	ug/kg	0.339	10.6	25	
Chloroethane		20.0	22.9	ug/kg	0.189	14.3	25	
cis-1,2-Dichloroethene		20.0	22.8	ug/kg	0.327	14.2	25	
cis-1,3-Dichloropropene		20.0	22.5	ug/kg	0.425	12.3	25	
Methylene Chloride		20.0	21.0	ug/kg	0.297	5.10	25	
Methyl Tert Butyl Ether		20.0	21.4	ug/kg	0.736	6.90	25	
Styrene		20.0	23.7	ug/kg	1.04	18.4	25	
Tetrachloroethene		20.0	22.2	ug/kg	0.332	11.2	25	
trans-1,2-Dichloroethene		20.0	22.0	ug/kg	0.311	10.1	25	
trans-1,3-Dichloropropene		20.0	20.4	ug/kg	0.443	2.10	25	
Trichloroethene		20.0	23.2	ug/kg	0.371	15.9	25	
Vinyl Acetate		20.0	18.1	ug/kg	0.491	9.60	25	
Xylenes		60.0	68.4	ug/kg	0.653	14.0	25	
1,2-Dichloroethene		40.0	44.9	ug/kg	0.319	12.1	25	

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 08/14/2007 Sample ID: WG247666-12
Instrument ID: HPMS9 Run Time: 18:01 Method: 8260B
File ID: 9M56020 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	22.9	ug/kg	0.630	14.5	25	
m-,p-Xylene		40.0	45.5	ug/kg	0.675	13.8	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 08/14/2007 Sample ID: WG247666-13
Instrument ID: HPMS9 Run Time: 18:32 Method: 8260B
File ID: 9M56021 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG247666 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,4-Dioxane		200	209	ug/kg	0.00250	4.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251775-02
Instrument ID: HPMS11 Run Time: 08:18 Method: 8260B
File ID: 11M46139 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG251776 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	55.8	ug/L	0.710	11.5	20	
1,2-Dichloropropane	CCC	50.0	52.5	ug/L	0.310	5.03	20	
Chloroform	CCC	50.0	55.1	ug/L	0.600	10.3	20	
Ethylbenzene	CCC	50.0	54.8	ug/L	0.578	9.57	20	
Toluene	CCC	50.0	54.1	ug/L	1.64	8.11	20	
Vinyl Chloride	CCC	50.0	57.9	ug/L	0.408	15.8	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.9	ug/L	0.453	2.19	20	
1,1-Dichloroethane	SPCC	50.0	56.0	ug/L	0.719	12.1	20	
Bromoform	SPCC	50.0	52.8	ug/L	0.168	5.55	20	
Chlorobenzene	SPCC	50.0	51.2	ug/L	1.01	2.39	20	
Chloromethane	SPCC	50.0	55.3	ug/L	0.494	10.5	20	
1,1,1-Trichloroethane		50.0	57.7	ug/L	0.601	15.4	20	
1,1,2-Trichloroethane		50.0	51.8	ug/L	0.237	3.67	20	
1,2,4-Trichlorobenzene		50.0	52.0	ug/L	0.857	4.06	20	
1,2-Dichlorobenzene		50.0	51.5	ug/L	1.25	3.02	20	
1,2-Dichloroethane		50.0	53.1	ug/L	0.532	6.26	20	
1,3-Dichlorobenzene		50.0	53.5	ug/L	1.47	6.99	20	
1,4-Dichlorobenzene		50.0	52.7	ug/L	1.47	5.40	20	
2-Butanone		50.0	53.6	ug/L	0.0707	7.29	20	
2-Hexanone		50.0	51.3	ug/L	0.160	2.59	20	
4-Methyl-2-Pentanone		50.0	47.8	ug/L	0.0623	4.33	20	
Acetone		50.0	56.5	ug/L	0.0565	13.1	20	
Acrylonitrile		50.0	53.3	ug/L	0.0796	6.57	20	
Benzene		50.0	52.7	ug/L	1.05	5.38	20	
Bromodichloromethane		50.0	54.8	ug/L	0.419	9.67	20	
Bromomethane		50.0	53.9	ug/L	0.189	7.76	20	
Carbon Disulfide		50.0	53.2	ug/L	0.830	6.48	20	
Carbon Tetrachloride		50.0	53.8	ug/L	0.484	7.60	20	
Dibromochloromethane		50.0	55.7	ug/L	0.336	11.5	20	
Chloroethane		50.0	56.7	ug/L	0.280	13.3	20	
cis-1,2-Dichloroethene		50.0	54.3	ug/L	0.284	8.60	20	
cis-1,3-Dichloropropene		50.0	53.0	ug/L	0.423	5.96	20	
Methylene Chloride		50.0	51.3	ug/L	0.273	2.66	20	
Methyl Tert Butyl Ether		50.0	49.1	ug/L	0.598	1.81	20	
Styrene		50.0	49.6	ug/L	1.14	0.806	20	
Tetrachloroethene		50.0	51.0	ug/L	0.293	2.10	20	
trans-1,2-Dichloroethene		50.0	54.8	ug/L	0.285	9.60	20	
trans-1,3-Dichloropropene		50.0	54.0	ug/L	0.600	8.02	20	
Trichloroethene		50.0	52.9	ug/L	0.246	5.83	20	
Vinyl Acetate		50.0	47.5	ug/L	0.460	4.92	20	
Xylenes		150	164	ug/L	0.710	9.10	20	
1,2-Dichloroethene		100	109	ug/L	0.285	9.10	20	

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CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251775-02
Instrument ID: HPMS11 Run Time: 08:18 Method: 8260B
File ID: 11M46139 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG251776 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
m-,p-Xylene		100	110	ug/L	0.731	9.55	20	
o-Xylene		50.0	54.1	ug/L	0.690	8.21	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252421-02
Instrument ID: HPMS11 Run Time: 08:18 Method: 8260B
File ID: 11M46437 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG252433 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	50.3	ug/L	0.642	0.693	20	
1,2-Dichloropropane	CCC	50.0	48.7	ug/L	0.287	2.54	20	
Chloroform	CCC	50.0	50.8	ug/L	0.553	1.64	20	
Ethylbenzene	CCC	50.0	50.0	ug/L	0.527	0.0460	20	
Toluene	CCC	50.0	50.3	ug/L	1.53	0.669	20	
Vinyl Chloride	CCC	50.0	47.0	ug/L	0.336	5.98	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.6	ug/L	0.450	2.81	20	
1,1-Dichloroethane	SPCC	50.0	51.6	ug/L	0.661	3.10	20	
Bromoform	SPCC	50.0	51.7	ug/L	0.165	3.43	20	
Chlorobenzene	SPCC	50.0	47.9	ug/L	0.945	4.29	20	
Chloromethane	SPCC	50.0	49.3	ug/L	0.441	1.38	20	
1,1,1-Trichloroethane		50.0	51.6	ug/L	0.537	3.16	20	
1,1,2-Trichloroethane		50.0	50.5	ug/L	0.231	0.906	20	
1,2,4-Trichlorobenzene		50.0	49.8	ug/L	0.820	0.461	20	
1,2-Dichlorobenzene		50.0	48.8	ug/L	1.18	2.42	20	
1,2-Dichloroethane		50.0	49.8	ug/L	0.498	0.482	20	
1,3-Dichlorobenzene		50.0	48.8	ug/L	1.34	2.39	20	
1,4-Dichlorobenzene		50.0	49.1	ug/L	1.37	1.87	20	
2-Butanone		50.0	51.5	ug/L	0.0678	2.95	20	
2-Hexanone		50.0	51.3	ug/L	0.160	2.58	20	
4-Methyl-2-Pentanone		50.0	47.2	ug/L	0.0614	5.69	20	
Acetone		50.0	53.5	ug/L	0.0535	7.02	20	
Acrylonitrile		50.0	51.6	ug/L	0.0771	3.15	20	
Benzene		50.0	48.3	ug/L	0.968	3.30	20	
Bromodichloromethane		50.0	49.8	ug/L	0.381	0.428	20	
Bromomethane		50.0	42.9	ug/L	0.150	14.2	20	
Carbon Disulfide		50.0	52.9	ug/L	0.824	5.72	20	
Carbon Tetrachloride		50.0	47.9	ug/L	0.433	4.16	20	
Dibromochloromethane		50.0	52.5	ug/L	0.316	5.02	20	
Chloroethane		50.0	49.2	ug/L	0.244	1.54	20	
cis-1,2-Dichloroethene		50.0	50.5	ug/L	0.264	1.03	20	
cis-1,3-Dichloropropene		50.0	49.0	ug/L	0.391	1.99	20	
Methylene Chloride		50.0	47.8	ug/L	0.254	4.43	20	
Methyl Tert Butyl Ether		50.0	51.1	ug/L	0.623	2.28	20	
Styrene		50.0	46.3	ug/L	1.06	7.44	20	
Tetrachloroethene		50.0	46.3	ug/L	0.266	7.33	20	
trans-1,2-Dichloroethene		50.0	50.8	ug/L	0.264	1.54	20	
trans-1,3-Dichloropropene		50.0	51.7	ug/L	0.575	3.40	20	
Trichloroethene		50.0	49.0	ug/L	0.228	1.98	20	
Vinyl Acetate		50.0	29.5	ug/L	0.286	41.0	20	*
Xylenes		150	151	ug/L	0.654	0.688	20	
1,2-Dichloroethene		100	101	ug/L	0.264	1.28	20	

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CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252421-02
Instrument ID: HPMS11 Run Time: 08:18 Method: 8260B
File ID: 11M46437 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG252433 Cal ID: HPMS11 - 01-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
m-,p-Xylene		100	101	ug/L	0.677	1.44	20	
o-Xylene		50.0	49.6	ug/L	0.632	0.821	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/01/2007 Sample ID: WG251610-02
Instrument ID: HPMS6 Run Time: 16:54 Method: 8260B
File ID: 6M69479 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG251611 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	53.9	ug/L	0.432	7.74	20	
1,2-Dichloropropane	CCC	50.0	53.9	ug/L	0.219	7.76	20	
Chloroform	CCC	50.0	55.4	ug/L	0.532	10.8	20	
Ethylbenzene	CCC	50.0	57.1	ug/L	0.528	14.2	20	
Toluene	CCC	50.0	57.0	ug/L	1.37	13.9	20	
Vinyl Chloride	CCC	50.0	43.7	ug/L	0.244	12.6	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	51.3	ug/L	0.361	2.66	20	
1,1-Dichloroethane	SPCC	50.0	55.0	ug/L	0.470	10.0	20	
Bromoform	SPCC	50.0	47.8	ug/L	0.188	4.32	20	
Chlorobenzene	SPCC	50.0	53.7	ug/L	0.947	7.38	20	
Chloromethane	SPCC	50.0	39.9	ug/L	0.257	20.2	20	*
1,1,1-Trichloroethane		50.0	52.9	ug/L	0.520	5.83	20	
1,1,2-Trichloroethane		50.0	51.9	ug/L	0.203	3.86	20	
1,2,4-Trichlorobenzene		50.0	52.7	ug/L	0.940	5.40	20	
1,2-Dichlorobenzene		50.0	53.9	ug/L	1.29	7.76	20	
1,2-Dichloroethane		50.0	53.4	ug/L	0.357	6.71	20	
1,3-Dichlorobenzene		50.0	54.0	ug/L	1.49	8.05	20	
1,4-Dichlorobenzene		50.0	52.4	ug/L	1.50	4.85	20	
1,4-Dioxane		200	261	ug/L	0.00130	30.7	20	*
2-Butanone		50.0	48.1	ug/L	0.0475	3.76	20	
2-Hexanone		50.0	50.5	ug/L	0.0968	0.984	20	
4-Methyl-2-Pentanone		50.0	47.0	ug/L	0.0392	5.94	20	
Acetone		50.0	56.9	ug/L	0.0422	13.9	20	
Acrylonitrile		50.0	50.9	ug/L	0.0450	1.80	20	
Benzene		50.0	56.4	ug/L	1.01	12.8	20	
Bromodichloromethane		50.0	55.5	ug/L	0.377	11.0	20	
Bromomethane		50.0	39.6	ug/L	0.161	20.9	20	*
Carbon Disulfide		50.0	51.0	ug/L	0.783	2.07	20	
Carbon Tetrachloride		50.0	53.2	ug/L	0.481	6.43	20	
Dibromochloromethane		50.0	50.0	ug/L	0.313	0.0188	20	
Chloroethane		50.0	50.4	ug/L	0.176	0.834	20	
cis-1,2-Dichloroethene		50.0	56.3	ug/L	0.277	12.6	20	
cis-1,3-Dichloropropene		50.0	49.9	ug/L	0.384	0.201	20	
Methylene Chloride		50.0	50.9	ug/L	0.251	1.70	20	
Methyl Tert Butyl Ether		50.0	52.0	ug/L	0.468	3.93	20	
Styrene		50.0	55.5	ug/L	1.07	11.1	20	
Tetrachloroethene		50.0	59.0	ug/L	0.392	18.0	20	
trans-1,2-Dichloroethene		50.0	57.2	ug/L	0.266	14.4	20	
trans-1,3-Dichloropropene		50.0	56.8	ug/L	0.450	13.5	20	
Trichloroethene		50.0	57.7	ug/L	0.278	15.4	20	
Vinyl Acetate		50.0	28.1	ug/L	0.136	43.7	20	*
Xylenes		150	171	ug/L	0.648	14.0	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/01/2007 Sample ID: WG251610-02
Instrument ID: HPMS6 Run Time: 16:54 Method: 8260B
File ID: 6M69479 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG251611 Cal ID: HPMS6 - 12-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	113	ug/L	0.272	13.5	20	
m-,p-Xylene		100	115	ug/L	0.661	15.2	20	
o-Xylene		50.0	55.8	ug/L	0.635	11.6	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/26/2007 Sample ID: WG251042-02
Instrument ID: HPMS9 Run Time: 08:37 Method: 8260B
File ID: 9M56989 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG251043 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	43.8	ug/kg	0.217	12.4	20	
1,2-Dichloropropane	CCC	50.0	48.0	ug/kg	0.235	3.98	20	
Chloroform	CCC	50.0	45.7	ug/kg	0.447	8.55	20	
Ethylbenzene	CCC	50.0	50.7	ug/kg	0.499	1.32	20	
Toluene	CCC	50.0	47.5	ug/kg	1.30	4.95	20	
Vinyl Chloride	CCC	50.0	57.3	ug/kg	0.235	14.6	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.7	ug/kg	0.470	4.55	20	
1,1-Dichloroethane	SPCC	50.0	43.0	ug/kg	0.435	13.9	20	
Bromoform	SPCC	50.0	56.9	ug/kg	0.206	13.9	20	
Chlorobenzene	SPCC	50.0	48.4	ug/kg	0.931	3.23	20	
Chloromethane	SPCC	50.0	50.8	ug/kg	0.290	1.61	20	
1,1,1-Trichloroethane		50.0	46.4	ug/kg	0.434	7.15	20	
1,1,2-Trichloroethane		50.0	49.4	ug/kg	0.247	1.15	20	
1,2,4-Trichlorobenzene		50.0	52.3	ug/kg	0.888	4.63	20	
1,2-Dichlorobenzene		50.0	49.8	ug/kg	1.27	0.450	20	
1,2-Dichloroethane		50.0	42.8	ug/kg	0.322	14.3	20	
1,3-Dichlorobenzene		50.0	49.3	ug/kg	1.37	1.48	20	
1,4-Dichlorobenzene		50.0	48.4	ug/kg	1.40	3.25	20	
1,4-Dioxane		200	220	ug/kg	0.00200	9.89	20	
2-Butanone		50.0	52.1	ug/kg	0.121	4.16	20	
2-Hexanone		50.0	53.4	ug/kg	0.212	6.86	20	
4-Methyl-2-Pentanone		50.0	61.7	ug/kg	0.106	23.4	20	*
Acetone		50.0	49.1	ug/kg	0.0783	1.85	20	
Acrylonitrile		50.0	52.8	ug/kg	0.0901	5.61	20	
Benzene		50.0	49.7	ug/kg	1.03	0.622	20	
Bromodichloromethane		50.0	49.5	ug/kg	0.321	0.956	20	
Bromomethane		50.0	61.0	ug/kg	0.182	21.9	20	*
Carbon Disulfide		50.0	50.5	ug/kg	0.842	0.986	20	
Carbon Tetrachloride		50.0	50.2	ug/kg	0.403	0.476	20	
Dibromochloromethane		50.0	53.7	ug/kg	0.330	7.49	20	
Chloroethane		50.0	56.2	ug/kg	0.185	12.4	20	
cis-1,2-Dichloroethene		50.0	50.0	ug/kg	0.287	0.0854	20	
cis-1,3-Dichloropropene		50.0	51.1	ug/kg	0.387	2.26	20	
Methylene Chloride		50.0	43.8	ug/kg	0.237	12.4	20	
Methyl Tert Butyl Ether		50.0	52.9	ug/kg	0.727	5.71	20	
Styrene		50.0	54.4	ug/kg	0.955	8.81	20	
Tetrachloroethene		50.0	50.8	ug/kg	0.303	1.62	20	
trans-1,2-Dichloroethene		50.0	47.9	ug/kg	0.271	4.14	20	
trans-1,3-Dichloropropene		50.0	47.3	ug/kg	0.411	5.35	20	
Trichloroethene		50.0	54.4	ug/kg	0.348	8.82	20	
Vinyl Acetate		50.0	27.7	ug/kg	0.301	44.7	20	*
Xylenes		150	154	ug/kg	0.589	2.83	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/26/2007 Sample ID: WG251042-02
Instrument ID: HPMS9 Run Time: 08:37 Method: 8260B
File ID: 9M56989 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG251043 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	98.0	ug/kg	0.279	2.03	20	
m-,p-Xylene		100	102	ug/kg	0.608	2.39	20	
o-Xylene		50.0	51.9	ug/kg	0.571	3.71	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252429-02
Instrument ID: HPMS9 Run Time: 09:45 Method: 8260B
File ID: 9M57287 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG252430 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	52.5	ug/kg	0.260	5.07	20	
1,2-Dichloropropane	CCC	50.0	49.2	ug/kg	0.241	1.61	20	
Chloroform	CCC	50.0	47.2	ug/kg	0.461	5.58	20	
Ethylbenzene	CCC	50.0	52.3	ug/kg	0.515	4.56	20	
Toluene	CCC	50.0	48.2	ug/kg	1.32	3.59	20	
Vinyl Chloride	CCC	50.0	46.2	ug/kg	0.190	7.50	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	56.6	ug/kg	0.557	13.3	20	
1,1-Dichloroethane	SPCC	50.0	45.6	ug/kg	0.461	8.77	20	
Bromoform	SPCC	50.0	65.9	ug/kg	0.239	31.8	20	*
Chlorobenzene	SPCC	50.0	50.3	ug/kg	0.967	0.519	20	
Chloromethane	SPCC	50.0	42.1	ug/kg	0.241	15.7	20	
1,1,1-Trichloroethane		50.0	48.9	ug/kg	0.457	2.18	20	
1,1,2-Trichloroethane		50.0	53.5	ug/kg	0.267	7.04	20	
1,2,4-Trichlorobenzene		50.0	53.7	ug/kg	0.912	7.34	20	
1,2-Dichlorobenzene		50.0	51.2	ug/kg	1.30	2.40	20	
1,2-Dichloroethane		50.0	45.6	ug/kg	0.342	8.88	20	
1,3-Dichlorobenzene		50.0	50.7	ug/kg	1.41	1.42	20	
1,4-Dichlorobenzene		50.0	49.9	ug/kg	1.44	0.200	20	
1,4-Dioxane		200	266	ug/kg	0.00250	32.8	20	*
2-Butanone		50.0	47.9	ug/kg	0.111	4.20	20	
2-Hexanone		50.0	48.9	ug/kg	0.194	2.16	20	
4-Methyl-2-Pentanone		50.0	54.7	ug/kg	0.0942	9.33	20	
Acetone		50.0	42.5	ug/kg	0.0688	15.1	20	
Acrylonitrile		50.0	50.1	ug/kg	0.0855	0.223	20	
Benzene		50.0	49.5	ug/kg	1.03	0.994	20	
Bromodichloromethane		50.0	52.1	ug/kg	0.338	4.25	20	
Bromomethane		50.0	49.1	ug/kg	0.147	1.79	20	
Carbon Disulfide		50.0	49.4	ug/kg	0.823	1.27	20	
Carbon Tetrachloride		50.0	54.2	ug/kg	0.435	8.48	20	
Dibromochloromethane		50.0	59.0	ug/kg	0.362	18.0	20	
Chloroethane		50.0	47.8	ug/kg	0.158	4.45	20	
cis-1,2-Dichloroethene		50.0	52.5	ug/kg	0.301	5.03	20	
cis-1,3-Dichloropropene		50.0	53.3	ug/kg	0.404	6.62	20	
Methylene Chloride		50.0	47.9	ug/kg	0.258	4.19	20	
Methyl Tert Butyl Ether		50.0	52.1	ug/kg	0.717	4.17	20	
Styrene		50.0	57.1	ug/kg	1.00	14.2	20	
Tetrachloroethene		50.0	52.0	ug/kg	0.311	3.99	20	
trans-1,2-Dichloroethene		50.0	51.8	ug/kg	0.292	3.57	20	
trans-1,3-Dichloropropene		50.0	51.1	ug/kg	0.444	2.24	20	
Trichloroethene		50.0	54.0	ug/kg	0.345	7.90	20	
Vinyl Acetate		50.0	28.2	ug/kg	0.307	43.6	20	*
Xylenes		150	162	ug/kg	0.618	7.82	20	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/10/2007 Sample ID: WG252429-02
Instrument ID: HPMS9 Run Time: 09:45 Method: 8260B
File ID: 9M57287 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG252430 Cal ID: HPMS9 - 14-AUG-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	104	ug/kg	0.297	4.30	20	
m-,p-Xylene		100	107	ug/kg	0.637	7.39	20	
o-Xylene		50.0	54.3	ug/kg	0.598	8.70	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS9
Workgroup (AAB#): WG251043

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	300415	546089	660212
Upper Limit	NA	NA	600830	1092178	1320424
Lower Limit	NA	NA	150208	273045	330106
L0709626-01	1.00	01	217713	386584	442562
L0709626-02	1.00	01	212212	424917	505596
L0709626-03	1.00	01	197584	351451	462142
L0709626-05	1.00	01	126130	378586	470146
L0709626-06	1.00	01	116625	374881	495693
L0709626-07	1.00	01	78297	319974	437953
WG251043-01	1.00	01	223203	391390	443681
WG251043-02	1.00	01	233943	406492	460427
WG251043-03	1.00	01	236570	418898	477094

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS9
Workgroup (AAB#): WG252430

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	300415	546089	660212
Upper Limit	NA	NA	600830	1092178	1320424
Lower Limit	NA	NA	150208	273045	330106
L0709626-04	1.00	02	266960	465122	522456
WG252430-01	1.00	01	264263	455688	524408
WG252430-02	1.00	01	247889	423197	480629
WG252430-03	1.00	01	250180	429627	486173

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 886552
Report generated 10/16/2007 08:54

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS6
Workgroup (AAB#): WG251611

ICAL CCV Number: WG249872-07
CAL ID: HPMS6-12-SEP-07
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG249872-07	NA	NA	504507	827682	1073553
Upper Limit	NA	NA	1009014	1655364	2147106
Lower Limit	NA	NA	252254	413841	536777
L0709626-08	1.00	01	331179	595774	772395
WG251611-01	1.00	01	353481	644202	837526
WG251611-02	1.00	01	396139	675311	871549
WG251611-03	1.00	01	410640	707786	924220

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 886552
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KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS11
Workgroup (AAB#): WG251776

ICAL CCV Number: WG251532-08
CAL ID: HPMS11-01-OCT-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG251532-08	NA	NA	364177	712231	1067255
Upper Limit	NA	NA	728354	1424462	2134510
Lower Limit	NA	NA	182089	356116	533628
L0709626-02	50.0	DL01	350765	638334	960539
WG251776-01	50.0	DL01	326341	615871	932823
WG251776-02	50.0	DL01	343527	626466	916089

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS11
Workgroup (AAB#): WG252433

ICAL CCV Number: WG251532-08
CAL ID: HPMS11-01-OCT-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG251532-08	NA	NA	364177	712231	1067255
Upper Limit	NA	NA	728354	1424462	2134510
Lower Limit	NA	NA	182089	356116	533628
L0709626-03	5000	DL02	316715	594055	927513
L0709626-05	100	DL01	315918	599061	922379
WG252433-01	50.0	DL01	304266	576711	901490
WG252433-02	50.0	DL01	288316	548861	838181

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 886552
Report generated 10/16/2007 08:54

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS9
Workgroup (AAB#): WG251043

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	15.24	12.26	8.4
Upper Limit	NA	NA	15.74	12.76	8.9
Lower Limit	NA	NA	14.74	11.76	7.9
L0709626-01	1.00	01	15.23	12.26	8.41
L0709626-02	1.00	01	15.23	12.26	8.41
L0709626-03	1.00	01	15.24	12.27	8.41
L0709626-05	1.00	01	15.24	12.26	8.41
L0709626-06	1.00	01	15.24	12.26	8.41
L0709626-07	1.00	01	15.25	12.26	8.41
WG251043-01	1.00	01	15.23	12.26	8.41
WG251043-02	1.00	01	15.23	12.26	8.41
WG251043-03	1.00	01	15.23	12.25	8.41

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS9
Workgroup (AAB#): WG252430

ICAL CCV Number: WG247666-08
CAL ID: HPMS9-14-AUG-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG247666-08	NA	NA	15.24	12.26	8.4
Upper Limit	NA	NA	15.74	12.76	8.9
Lower Limit	NA	NA	14.74	11.76	7.9
L0709626-04	1.00	02	15.23	12.26	8.41
WG252430-01	1.00	01	15.23	12.26	8.41
WG252430-02	1.00	01	15.23	12.26	8.41
WG252430-03	1.00	01	15.23	12.26	8.41

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 906107
Report generated 10/16/2007 08:55

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS6
Workgroup (AAB#): WG251611

ICAL CCV Number: WG249872-07
CAL ID: HPMS6-12-SEP-07
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG249872-07	NA	NA	19.05	15.49	11.02
Upper Limit	NA	NA	19.55	15.99	11.52
Lower Limit	NA	NA	18.55	14.99	10.52
L0709626-08	1.00	01	19.05	15.49	11.02
WG251611-01	1.00	01	19.05	15.49	11.01
WG251611-02	1.00	01	19.04	15.49	11.01
WG251611-03	1.00	01	19.05	15.49	11.01

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 906107
Report generated 10/16/2007 08:55

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS11
Workgroup (AAB#): WG251776

ICAL CCV Number: WG251532-08
CAL ID: HPMS11-01-OCT-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG251532-08	NA	NA	16.81	14.01	10.38
Upper Limit	NA	NA	17.31	14.51	10.88
Lower Limit	NA	NA	16.31	13.51	9.88
L0709626-02	50.0	DL01	16.812	14.01	10.381
WG251776-01	50.0	DL01	16.812	14.01	10.381
WG251776-02	50.0	DL01	16.812	14.01	10.381

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626
Instrument ID: HPMS11
Workgroup (AAB#): WG252433

ICAL CCV Number: WG251532-08
CAL ID: HPMS11-01-OCT-07
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG251532-08	NA	NA	16.81	14.01	10.38
Upper Limit	NA	NA	17.31	14.51	10.88
Lower Limit	NA	NA	16.31	13.51	9.88
L0709626-03	5000	DL02	16.823	14.01	10.381
L0709626-05	100	DL01	16.823	14.01	10.381
WG252433-01	50.0	DL01	16.823	14.01	10.381
WG252433-02	50.0	DL01	16.822	14.01	10.381

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 906107
Report generated 10/16/2007 08:55

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
GC/MS SEMIVOLATILE ORGANICS

KEMRON Login No.: L0709626

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard analyzed on 10/3/07 yielded %D for 2,4-dinitrophenol and pentachlorophenol that were beyond the acceptance limits. All other acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Samples 06MS and 07MSD yielded recoveries below the lower acceptance limits for 6 compounds and 8 compounds, respectively. The MS/MSD also yielded %RPD for 4 compounds that were beyond the acceptance limit.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: Samples 03 and 05-07 were analyzed at dilutions due to appearace and/viscosity.

Manual Integration Reason Codes

KEMRON laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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: CAA

Approved: 11-OCT-07

LABORATORY REPORT

L0709626

10/17/07 08:16

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG. 706/707/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0082-SO-092107	L0709626-01	8270C	1	24-SEP-07
0083-SO-092107	L0709626-02	8270C	1	24-SEP-07
0084-SO-092107	L0709626-03	8270C	5	24-SEP-07
0085-SO-092107	L0709626-04	8270C	1	24-SEP-07
0086-SO-092107	L0709626-05	8270C	5	24-SEP-07
0086-SO-092107/MS	L0709626-06	8270C	5	24-SEP-07
0086-SO-092107/MSD	L0709626-07	8270C	5	24-SEP-07

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-01**
Client ID: **0082-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 11:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 14:39**
File ID: **4M39637**
Percent Solid: **81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	197	98.3
2,4,6-Trichlorophenol	88-06-2		U	197	98.3
2,4-Dichlorophenol	120-83-2		U	197	98.3
2,4-Dimethylphenol	105-67-9		U	197	98.3
2,4-Dinitrophenol	51-28-5		U	983	491
2,4-Dinitrotoluene	121-14-2		U	197	98.3
2,6-Dinitrotoluene	606-20-2		U	197	98.3
2-Chloronaphthalene	91-58-7		U	197	98.3
2-Chlorophenol	95-57-8		U	197	98.3
2-Methylnaphthalene	91-57-6		U	197	98.3
2-Methylphenol	95-48-7		U	197	98.3
2-Nitroaniline	88-74-4		U	983	491
2-Nitrophenol	88-75-5		U	197	98.3
3,3'-Dichlorobenzidine	91-94-1		U	393	197
3-,4-Methylphenol	106-44-5		U	197	98.3
3-Nitroaniline	99-09-2		U	983	491
4,6-Dinitro-2-methylphenol	534-52-1		U	983	491
4-Bromophenyl phenyl ether	101-55-3		U	197	98.3
4-Chloro-3-methylphenol	59-50-7		U	197	98.3
4-Chloroaniline	106-47-8		U	197	98.3
4-Chlorophenyl phenyl ether	7005-72-3		U	197	98.3
4-Nitroaniline	100-01-6		U	983	491
4-Nitrophenol	100-02-7		U	983	491
Acenaphthene	83-32-9		U	197	98.3
Acenaphthylene	208-96-8		U	197	98.3
Anthracene	120-12-7		U	197	98.3
Benzo(a)anthracene	56-55-3		U	197	98.3
Benzo(a)pyrene	50-32-8		U	197	98.3
Benzo(b)fluoranthene	205-99-2		U	197	98.3
Benzo(g,h,i)Perylene	191-24-2		U	197	98.3
Benzo(k)fluoranthene	207-08-9		U	197	98.3
Bis(2-Chloroethoxy)Methane	111-91-1		U	197	98.3
Bis(2-Chloroethyl)ether	111-44-4		U	197	98.3
bis(2-Chloroisopropyl)ether	39638-32-9		U	197	98.3
bis(2-Ethylhexyl)phthalate	117-81-7		U	197	98.3
Butyl benzyl phthalate	85-68-7		U	197	98.3
Carbazole	86-74-8		U	197	98.3
Chrysene	218-01-9		U	197	98.3
Dibenz(a,h)anthracene	53-70-3		U	197	98.3
Dibenzofuran	132-64-9		U	197	98.3
Diethyl phthalate	84-66-2		U	197	98.3
Dimethyl phthalate	131-11-3		U	197	98.3
Di-N-Butylphthalate	84-74-2		U	197	98.3
Di-n-octyl phthalate	117-84-0		U	197	98.3
Fluoranthene	206-44-0		U	197	98.3
Fluorene	86-73-7		U	197	98.3
Hexachlorobenzene	118-74-1		U	197	98.3
Hexachlorobutadiene	87-68-3		U	197	98.3

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-01**
Client ID: **0082-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 11:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 14:39**
File ID: **4M39637**
Percent Solid: **81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	197	98.3
Hexachloroethane	67-72-1		U	197	98.3
Indeno(1,2,3-cd)pyrene	193-39-5		U	197	98.3
Isophorone	78-59-1		U	197	98.3
Naphthalene	91-20-3		U	197	98.3
Nitrobenzene	98-95-3		U	197	98.3
N-Nitrosodiphenylamine	86-30-6		U	197	98.3
N-Nitrosodipropylamine	621-64-7		U	197	98.3
Pentachlorophenol	87-86-5		U	983	491
Phenanthrene	85-01-8		U	197	98.3
Phenol	108-95-2		U	197	98.3
Pyrene	129-00-0		U	197	98.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	82.1	19	122	
2-Fluorobiphenyl	71.3	30	115	
2-Fluorophenol	66.8	25	121	
Nitrobenzene-d5	71.3	23	120	
p-Terphenyl-d14	103	18	137	
Phenol-d5	72.2	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 15:12**
File ID: **4M39638**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	186	93.2
2,4,6-Trichlorophenol	88-06-2		U	186	93.2
2,4-Dichlorophenol	120-83-2		U	186	93.2
2,4-Dimethylphenol	105-67-9		U	186	93.2
2,4-Dinitrophenol	51-28-5		U	932	465
2,4-Dinitrotoluene	121-14-2		U	186	93.2
2,6-Dinitrotoluene	606-20-2		U	186	93.2
2-Chloronaphthalene	91-58-7		U	186	93.2
2-Chlorophenol	95-57-8		U	186	93.2
2-Methylnaphthalene	91-57-6		U	186	93.2
2-Methylphenol	95-48-7		U	186	93.2
2-Nitroaniline	88-74-4		U	932	465
2-Nitrophenol	88-75-5		U	186	93.2
3,3'-Dichlorobenzidine	91-94-1		U	373	186
3-,4-Methylphenol	106-44-5		U	186	93.2
3-Nitroaniline	99-09-2		U	932	465
4,6-Dinitro-2-methylphenol	534-52-1		U	932	465
4-Bromophenyl phenyl ether	101-55-3		U	186	93.2
4-Chloro-3-methylphenol	59-50-7		U	186	93.2
4-Chloroaniline	106-47-8		U	186	93.2
4-Chlorophenyl phenyl ether	7005-72-3		U	186	93.2
4-Nitroaniline	100-01-6		U	932	465
4-Nitrophenol	100-02-7		U	932	465
Acenaphthene	83-32-9		U	186	93.2
Acenaphthylene	208-96-8		U	186	93.2
Anthracene	120-12-7		U	186	93.2
Benzo(a)anthracene	56-55-3		U	186	93.2
Benzo(a)pyrene	50-32-8		U	186	93.2
Benzo(b)fluoranthene	205-99-2		U	186	93.2
Benzo(g,h,i)Perylene	191-24-2		U	186	93.2
Benzo(k)fluoranthene	207-08-9		U	186	93.2
Bis(2-Chloroethoxy)Methane	111-91-1		U	186	93.2
Bis(2-Chloroethyl)ether	111-44-4		U	186	93.2
bis(2-Chloroisopropyl)ether	39638-32-9		U	186	93.2
bis(2-Ethylhexyl)phthalate	117-81-7		U	186	93.2
Butyl benzyl phthalate	85-68-7		U	186	93.2
Carbazole	86-74-8		U	186	93.2
Chrysene	218-01-9		U	186	93.2
Dibenz(a,h)anthracene	53-70-3		U	186	93.2
Dibenzofuran	132-64-9		U	186	93.2
Diethyl phthalate	84-66-2		U	186	93.2
Dimethyl phthalate	131-11-3		U	186	93.2
Di-N-Butylphthalate	84-74-2		U	186	93.2
Di-n-octyl phthalate	117-84-0		U	186	93.2
Fluoranthene	206-44-0		U	186	93.2
Fluorene	86-73-7		U	186	93.2
Hexachlorobenzene	118-74-1		U	186	93.2
Hexachlorobutadiene	87-68-3		U	186	93.2

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 15:12**
File ID: **4M39638**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	186	93.2
Hexachloroethane	67-72-1		U	186	93.2
Indeno(1,2,3-cd)pyrene	193-39-5		U	186	93.2
Isophorone	78-59-1		U	186	93.2
Naphthalene	91-20-3		U	186	93.2
Nitrobenzene	98-95-3		U	186	93.2
N-Nitrosodiphenylamine	86-30-6		U	186	93.2
N-Nitrosodipropylamine	621-64-7		U	186	93.2
Pentachlorophenol	87-86-5		U	932	465
Phenanthrene	85-01-8		U	186	93.2
Phenol	108-95-2		U	186	93.2
Pyrene	129-00-0		U	186	93.2

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	68.5	19	122	
2-Fluorobiphenyl	53.1	30	115	
2-Fluorophenol	53.0	25	121	
Nitrobenzene-d5	56.1	23	120	
p-Terphenyl-d14	100	18	137	
Phenol-d5	58.6	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 13:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 16:18**
File ID: **4M39640**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	919	460
2,4,6-Trichlorophenol	88-06-2		U	919	460
2,4-Dichlorophenol	120-83-2		U	919	460
2,4-Dimethylphenol	105-67-9		U	919	460
2,4-Dinitrophenol	51-28-5		U	4600	2300
2,4-Dinitrotoluene	121-14-2		U	919	460
2,6-Dinitrotoluene	606-20-2		U	919	460
2-Chloronaphthalene	91-58-7		U	919	460
2-Chlorophenol	95-57-8		U	919	460
2-Methylnaphthalene	91-57-6		U	919	460
2-Methylphenol	95-48-7		U	919	460
2-Nitroaniline	88-74-4		U	4600	2300
2-Nitrophenol	88-75-5		U	919	460
3,3'-Dichlorobenzidine	91-94-1		U	1840	919
3-,4-Methylphenol	106-44-5		U	919	460
3-Nitroaniline	99-09-2		U	4600	2300
4,6-Dinitro-2-methylphenol	534-52-1		U	4600	2300
4-Bromophenyl phenyl ether	101-55-3		U	919	460
4-Chloro-3-methylphenol	59-50-7		U	919	460
4-Chloroaniline	106-47-8		U	919	460
4-Chlorophenyl phenyl ether	7005-72-3		U	919	460
4-Nitroaniline	100-01-6		U	4600	2300
4-Nitrophenol	100-02-7		U	4600	2300
Acenaphthene	83-32-9		U	919	460
Acenaphthylene	208-96-8		U	919	460
Anthracene	120-12-7		U	919	460
Benzo(a)anthracene	56-55-3		U	919	460
Benzo(a)pyrene	50-32-8		U	919	460
Benzo(b)fluoranthene	205-99-2		U	919	460
Benzo(g,h,i)Perylene	191-24-2		U	919	460
Benzo(k)fluoranthene	207-08-9		U	919	460
Bis(2-Chloroethoxy)Methane	111-91-1		U	919	460
Bis(2-Chloroethyl)ether	111-44-4		U	919	460
bis(2-Chloroisopropyl)ether	39638-32-9		U	919	460
bis(2-Ethylhexyl)phthalate	117-81-7	10400		919	460
Butyl benzyl phthalate	85-68-7		U	919	460
Carbazole	86-74-8		U	919	460
Chrysene	218-01-9		U	919	460
Dibenz(a,h)anthracene	53-70-3		U	919	460
Dibenzofuran	132-64-9		U	919	460
Diethyl phthalate	84-66-2		U	919	460
Dimethyl phthalate	131-11-3		U	919	460
Di-N-Butylphthalate	84-74-2		U	919	460
Di-n-octyl phthalate	117-84-0		U	919	460
Fluoranthene	206-44-0		U	919	460
Fluorene	86-73-7		U	919	460
Hexachlorobenzene	118-74-1		U	919	460
Hexachlorobutadiene	87-68-3		U	919	460

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 13:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 16:18**
File ID: **4M39640**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	919	460
Hexachloroethane	67-72-1		U	919	460
Indeno(1,2,3-cd)pyrene	193-39-5		U	919	460
Isophorone	78-59-1		U	919	460
Naphthalene	91-20-3		U	919	460
Nitrobenzene	98-95-3		U	919	460
N-Nitrosodiphenylamine	86-30-6		U	919	460
N-Nitrosodipropylamine	621-64-7		U	919	460
Pentachlorophenol	87-86-5		U	4600	2300
Phenanthrene	85-01-8		U	919	460
Phenol	108-95-2		U	919	460
Pyrene	129-00-0		U	919	460

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	84.3	19	122	
2-Fluorobiphenyl	63.3	30	115	
2-Fluorophenol	56.4	25	121	
Nitrobenzene-d5	55.3	23	120	
p-Terphenyl-d14	102	18	137	
Phenol-d5	63.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-04**
Client ID: **0085-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 15:45**
File ID: **4M39639**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	176	87.9
2,4,6-Trichlorophenol	88-06-2		U	176	87.9
2,4-Dichlorophenol	120-83-2		U	176	87.9
2,4-Dimethylphenol	105-67-9		U	176	87.9
2,4-Dinitrophenol	51-28-5		U	879	439
2,4-Dinitrotoluene	121-14-2		U	176	87.9
2,6-Dinitrotoluene	606-20-2		U	176	87.9
2-Chloronaphthalene	91-58-7		U	176	87.9
2-Chlorophenol	95-57-8		U	176	87.9
2-Methylnaphthalene	91-57-6		U	176	87.9
2-Methylphenol	95-48-7		U	176	87.9
2-Nitroaniline	88-74-4		U	879	439
2-Nitrophenol	88-75-5		U	176	87.9
3,3'-Dichlorobenzidine	91-94-1		U	351	176
3-,4-Methylphenol	106-44-5		U	176	87.9
3-Nitroaniline	99-09-2		U	879	439
4,6-Dinitro-2-methylphenol	534-52-1		U	879	439
4-Bromophenyl phenyl ether	101-55-3		U	176	87.9
4-Chloro-3-methylphenol	59-50-7		U	176	87.9
4-Chloroaniline	106-47-8		U	176	87.9
4-Chlorophenyl phenyl ether	7005-72-3		U	176	87.9
4-Nitroaniline	100-01-6		U	879	439
4-Nitrophenol	100-02-7		U	879	439
Acenaphthene	83-32-9		U	176	87.9
Acenaphthylene	208-96-8		U	176	87.9
Anthracene	120-12-7		U	176	87.9
Benzo(a)anthracene	56-55-3		U	176	87.9
Benzo(a)pyrene	50-32-8		U	176	87.9
Benzo(b)fluoranthene	205-99-2		U	176	87.9
Benzo(g,h,i)Perylene	191-24-2		U	176	87.9
Benzo(k)fluoranthene	207-08-9		U	176	87.9
Bis(2-Chloroethoxy)Methane	111-91-1		U	176	87.9
Bis(2-Chloroethyl)ether	111-44-4		U	176	87.9
bis(2-Chloroisopropyl)ether	39638-32-9		U	176	87.9
bis(2-Ethylhexyl)phthalate	117-81-7		U	176	87.9
Butyl benzyl phthalate	85-68-7		U	176	87.9
Carbazole	86-74-8		U	176	87.9
Chrysene	218-01-9		U	176	87.9
Dibenz(a,h)anthracene	53-70-3		U	176	87.9
Dibenzofuran	132-64-9		U	176	87.9
Diethyl phthalate	84-66-2		U	176	87.9
Dimethyl phthalate	131-11-3		U	176	87.9
Di-N-Butylphthalate	84-74-2		U	176	87.9
Di-n-octyl phthalate	117-84-0		U	176	87.9
Fluoranthene	206-44-0		U	176	87.9
Fluorene	86-73-7		U	176	87.9
Hexachlorobenzene	118-74-1		U	176	87.9
Hexachlorobutadiene	87-68-3		U	176	87.9

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-04**
Client ID: **0085-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 15:45**
File ID: **4M39639**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	176	87.9
Hexachloroethane	67-72-1		U	176	87.9
Indeno(1,2,3-cd)pyrene	193-39-5		U	176	87.9
Isophorone	78-59-1		U	176	87.9
Naphthalene	91-20-3		U	176	87.9
Nitrobenzene	98-95-3		U	176	87.9
N-Nitrosodiphenylamine	86-30-6		U	176	87.9
N-Nitrosodipropylamine	621-64-7		U	176	87.9
Pentachlorophenol	87-86-5		U	879	439
Phenanthrene	85-01-8		U	176	87.9
Phenol	108-95-2		U	176	87.9
Pyrene	129-00-0		U	176	87.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	57.0	19	122	
2-Fluorobiphenyl	47.2	30	115	
2-Fluorophenol	50.8	25	121	
Nitrobenzene-d5	51.7	23	120	
p-Terphenyl-d14	100	18	137	
Phenol-d5	54.4	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-05**
Client ID: **0086-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 16:51**
File ID: **4M39641**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	993	497
2,4,6-Trichlorophenol	88-06-2		U	993	497
2,4-Dichlorophenol	120-83-2		U	993	497
2,4-Dimethylphenol	105-67-9		U	993	497
2,4-Dinitrophenol	51-28-5		U	4970	2480
2,4-Dinitrotoluene	121-14-2		U	993	497
2,6-Dinitrotoluene	606-20-2		U	993	497
2-Chloronaphthalene	91-58-7		U	993	497
2-Chlorophenol	95-57-8		U	993	497
2-Methylnaphthalene	91-57-6		U	993	497
2-Methylphenol	95-48-7		U	993	497
2-Nitroaniline	88-74-4		U	4970	2480
2-Nitrophenol	88-75-5		U	993	497
3,3'-Dichlorobenzidine	91-94-1		U	1990	993
3-,4-Methylphenol	106-44-5		U	993	497
3-Nitroaniline	99-09-2		U	4970	2480
4,6-Dinitro-2-methylphenol	534-52-1		U	4970	2480
4-Bromophenyl phenyl ether	101-55-3		U	993	497
4-Chloro-3-methylphenol	59-50-7		U	993	497
4-Chloroaniline	106-47-8		U	993	497
4-Chlorophenyl phenyl ether	7005-72-3		U	993	497
4-Nitroaniline	100-01-6		U	4970	2480
4-Nitrophenol	100-02-7		U	4970	2480
Acenaphthene	83-32-9		U	993	497
Acenaphthylene	208-96-8		U	993	497
Anthracene	120-12-7		U	993	497
Benzo(a)anthracene	56-55-3		U	993	497
Benzo(a)pyrene	50-32-8		U	993	497
Benzo(b)fluoranthene	205-99-2		U	993	497
Benzo(g,h,i)Perylene	191-24-2		U	993	497
Benzo(k)fluoranthene	207-08-9		U	993	497
Bis(2-Chloroethoxy)Methane	111-91-1		U	993	497
Bis(2-Chloroethyl)ether	111-44-4		U	993	497
bis(2-Chloroisopropyl)ether	39638-32-9		U	993	497
bis(2-Ethylhexyl)phthalate	117-81-7		U	993	497
Butyl benzyl phthalate	85-68-7		U	993	497
Carbazole	86-74-8		U	993	497
Chrysene	218-01-9		U	993	497
Dibenz(a,h)anthracene	53-70-3		U	993	497
Dibenzofuran	132-64-9		U	993	497
Diethyl phthalate	84-66-2		U	993	497
Dimethyl phthalate	131-11-3		U	993	497
Di-N-Butylphthalate	84-74-2		U	993	497
Di-n-octyl phthalate	117-84-0		U	993	497
Fluoranthene	206-44-0		U	993	497
Fluorene	86-73-7		U	993	497
Hexachlorobenzene	118-74-1		U	993	497
Hexachlorobutadiene	87-68-3		U	993	497

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-05**
Client ID: **0086-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 16:51**
File ID: **4M39641**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	993	497
Hexachloroethane	67-72-1		U	993	497
Indeno(1,2,3-cd)pyrene	193-39-5		U	993	497
Isophorone	78-59-1		U	993	497
Naphthalene	91-20-3		U	993	497
Nitrobenzene	98-95-3		U	993	497
N-Nitrosodiphenylamine	86-30-6		U	993	497
N-Nitrosodipropylamine	621-64-7		U	993	497
Pentachlorophenol	87-86-5		U	4970	2480
Phenanthrene	85-01-8		U	993	497
Phenol	108-95-2		U	993	497
Pyrene	129-00-0		U	993	497

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	63.3	19	122	
2-Fluorobiphenyl	69.7	30	115	
2-Fluorophenol	59.2	25	121	
Nitrobenzene-d5	51.3	23	120	
p-Terphenyl-d14	92.9	18	137	
Phenol-d5	68.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 17:24**
File ID: **4M39642**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4	2390		1020	511
2,4,6-Trichlorophenol	88-06-2	2070		1020	511
2,4-Dichlorophenol	120-83-2	2360		1020	511
2,4-Dimethylphenol	105-67-9	2610		1020	511
2,4-Dinitrophenol	51-28-5		U	5110	2550
2,4-Dinitrotoluene	121-14-2	2160		1020	511
2,6-Dinitrotoluene	606-20-2	2200		1020	511
2-Chloronaphthalene	91-58-7	2070		1020	511
2-Chlorophenol	95-57-8	2220		1020	511
2-Methylnaphthalene	91-57-6	2490		1020	511
2-Methylphenol	95-48-7	2300		1020	511
2-Nitroaniline	88-74-4		U	5110	2550
2-Nitrophenol	88-75-5	1420		1020	511
3,3'-Dichlorobenzidine	91-94-1	2860		2050	1020
3-,4-Methylphenol	106-44-5	2590		1020	511
3-Nitroaniline	99-09-2		U	5110	2550
4,6-Dinitro-2-methylphenol	534-52-1		U	5110	2550
4-Bromophenyl phenyl ether	101-55-3	2660		1020	511
4-Chloro-3-methylphenol	59-50-7	2390		1020	511
4-Chloroaniline	106-47-8	1690		1020	511
4-Chlorophenyl phenyl ether	7005-72-3	2830		1020	511
4-Nitroaniline	100-01-6	2760	J	5110	2550
4-Nitrophenol	100-02-7		U	5110	2550
Acenaphthene	83-32-9	2630		1020	511
Acenaphthylene	208-96-8	2550		1020	511
Anthracene	120-12-7	3180		1020	511
Benzo(a)anthracene	56-55-3	3160		1020	511
Benzo(a)pyrene	50-32-8	3110		1020	511
Benzo(b)fluoranthene	205-99-2	3080		1020	511
Benzo(g,h,i)Perylene	191-24-2	2890		1020	511
Benzo(k)fluoranthene	207-08-9	2980		1020	511
Bis(2-Chloroethoxy)Methane	111-91-1	1820		1020	511
Bis(2-Chloroethyl)ether	111-44-4	2100		1020	511
bis(2-Chloroisopropyl)ether	39638-32-9	2170		1020	511
bis(2-Ethylhexyl)phthalate	117-81-7	3490		1020	511
Butyl benzyl phthalate	85-68-7	2950		1020	511
Carbazole	86-74-8	3450		1020	511
Chrysene	218-01-9	3320		1020	511
Dibenz(a,h)anthracene	53-70-3	3060		1020	511
Dibenzofuran	132-64-9	2860		1020	511
Diethyl phthalate	84-66-2	2860		1020	511
Dimethyl phthalate	131-11-3	2630		1020	511
Di-N-Butylphthalate	84-74-2	3260		1020	511
Di-n-octyl phthalate	117-84-0	3530		1020	511
Fluoranthene	206-44-0	3470		1020	511
Fluorene	86-73-7	2940		1020	511
Hexachlorobenzene	118-74-1	3110		1020	511
Hexachlorobutadiene	87-68-3	2330		1020	511

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 17:24**
File ID: **4M39642**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	1020	511
Hexachloroethane	67-72-1	1850		1020	511
Indeno(1,2,3-cd)pyrene	193-39-5	2980		1020	511
Isophorone	78-59-1	2400		1020	511
Naphthalene	91-20-3	2360		1020	511
Nitrobenzene	98-95-3	1960		1020	511
N-Nitrosodiphenylamine	86-30-6	2600		1020	511
N-Nitrosodipropylamine	621-64-7	2590		1020	511
Pentachlorophenol	87-86-5	3030	J	5110	2550
Phenanthrene	85-01-8	3290		1020	511
Phenol	108-95-2	2460		1020	511
Pyrene	129-00-0	3270		1020	511

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	86.9	19	122	
2-Fluorobiphenyl	70.8	30	115	
2-Fluorophenol	64.3	25	121	
Nitrobenzene-d5	55.1	23	120	
p-Terphenyl-d14	107	18	137	
Phenol-d5	71.2	24	113	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 17:58**
File ID: **4M39643**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4	2070		994	497
2,4,6-Trichlorophenol	88-06-2	1880		994	497
2,4-Dichlorophenol	120-83-2	2120		994	497
2,4-Dimethylphenol	105-67-9	2280		994	497
2,4-Dinitrophenol	51-28-5		U	4970	2480
2,4-Dinitrotoluene	121-14-2	1450		994	497
2,6-Dinitrotoluene	606-20-2	1710		994	497
2-Chloronaphthalene	91-58-7	1720		994	497
2-Chlorophenol	95-57-8	2060		994	497
2-Methylnaphthalene	91-57-6	2120		994	497
2-Methylphenol	95-48-7	2050		994	497
2-Nitroaniline	88-74-4		U	4970	2480
2-Nitrophenol	88-75-5	1020		994	497
3,3'-Dichlorobenzidine	91-94-1	2320		1990	994
3-,4-Methylphenol	106-44-5	2320		994	497
3-Nitroaniline	99-09-2		U	4970	2480
4,6-Dinitro-2-methylphenol	534-52-1		U	4970	2480
4-Bromophenyl phenyl ether	101-55-3	2320		994	497
4-Chloro-3-methylphenol	59-50-7	2150		994	497
4-Chloroaniline	106-47-8	1600		994	497
4-Chlorophenyl phenyl ether	7005-72-3	2480		994	497
4-Nitroaniline	100-01-6		U	4970	2480
4-Nitrophenol	100-02-7		U	4970	2480
Acenaphthene	83-32-9	2120		994	497
Acenaphthylene	208-96-8	2140		994	497
Anthracene	120-12-7	2620		994	497
Benzo(a)anthracene	56-55-3	2680		994	497
Benzo(a)pyrene	50-32-8	2690		994	497
Benzo(b)fluoranthene	205-99-2	2570		994	497
Benzo(g,h,i)Perylene	191-24-2	2480		994	497
Benzo(k)fluoranthene	207-08-9	2600		994	497
Bis(2-Chloroethoxy)Methane	111-91-1	1600		994	497
Bis(2-Chloroethyl)ether	111-44-4	1840		994	497
bis(2-Chloroisopropyl)ether	39638-32-9	1690		994	497
bis(2-Ethylhexyl)phthalate	117-81-7	2860		994	497
Butyl benzyl phthalate	85-68-7	2170		994	497
Carbazole	86-74-8	2800		994	497
Chrysene	218-01-9	2740		994	497
Dibenz(a,h)anthracene	53-70-3	2570		994	497
Dibenzofuran	132-64-9	2420		994	497
Diethyl phthalate	84-66-2	2280		994	497
Dimethyl phthalate	131-11-3	2240		994	497
Di-N-Butylphthalate	84-74-2	2580		994	497
Di-n-octyl phthalate	117-84-0	2880		994	497
Fluoranthene	206-44-0	2800		994	497
Fluorene	86-73-7	2480		994	497
Hexachlorobenzene	118-74-1	2810		994	497
Hexachlorobutadiene	87-68-3	2060		994	497

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG251394**
Collect Date: **09/21/2007 14:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **09/27/2007 08:00**
Cal Date: **10/03/2007 12:22**
Run Date: **10/06/2007 17:58**
File ID: **4M39643**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorocyclopentadiene	77-47-4		U	994	497
Hexachloroethane	67-72-1	1600		994	497
Indeno(1,2,3-cd)pyrene	193-39-5	2540		994	497
Isophorone	78-59-1	2100		994	497
Naphthalene	91-20-3	1980		994	497
Nitrobenzene	98-95-3	1680		994	497
N-Nitrosodiphenylamine	86-30-6	2160		994	497
N-Nitrosodipropylamine	621-64-7	2180		994	497
Pentachlorophenol	87-86-5	2750	J	4970	2480
Phenanthrene	85-01-8	2700		994	497
Phenol	108-95-2	2130		994	497
Pyrene	129-00-0	2500		994	497

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	80.9	19	122	
2-Fluorobiphenyl	64.0	30	115	
2-Fluorophenol	57.8	25	121	
Nitrobenzene-d5	51.7	23	120	
p-Terphenyl-d14	86.5	18	137	
Phenol-d5	65.8	24	113	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet R1279641

KEMRON ENVIRONMENTAL SERVICES

Parameter: BNA Soil SOP #: EXASE01 Revision #: 6
Extraction Analyst(s): CAF, CRD TV/KD Analyst(s): CSH
Date/Time Extracted: 9-27-07 @ 08:00 Date TV/KD: 9-28-7
Spike/Surrogate Analyst: CAF Witness: CSH
Surrogate #: STD 21351 Earliest Hold Date: 10-05-07
Spike #: A = STD 21456 Spike #: B = —

Extraction Work Group WG 251181

Extract Relinquished By: CSH
Extract Received By & Date: CAA 9/28/07

	Sample ID	Test Code	pH / <2	pH / N	pH / >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions / A	Emulsions / BN	Emulsions / N	Comments
1	Blank					20.00g	500µL		1mL	T				WG 251181-02
2	LCS					1		500µL		C				WG 1 -03
3	09-624-01	8270				20.15g								
4	09-626-01	827-SPE				20.51g								
5	-02					20.11g								
6	-03					20.29g				O				
7	-04					20.73g				C				
8	-05 Rof					1				O				WG 251181-01
9	-06 MS					20.13g		500µL		C				WG 1 -04
10	-07 MSD					20.70g		1		O				WG 1 -05
11	09-633-01					20.96g				T				
12	-02					20.73g				C				
13	-03					20.33g				T				
14	-04					20.06g								
15	-05					20.91g				I				
16	-06					20.07g				C				
17	-07					20.53g				T				
18	-08					20.60g				C				
19	-09					20.72g								
20	-10					20.14g								
21	-11					20.05g								
22	09-654-01					20.69g								
23	09-644-02					20.39g				I				
24	-03	—				20.73g	—		—	O				

— CSH 9-28-7

Methylene Chloride Lot #: E31E34
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: SAND Lot #: E25595
Reagent: DE Lot #: E11H04
Reagent: — Lot #: —
Acid: 1% Acetic Lot #: RGT12074
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: CDA12125

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 9-28-7

Extraction Notes For Volume # 288 Page # 39

General Comments: NONE

Extraction Anomalies: NONE

Concentration Anomalies: NONE

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092407
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21030

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups:

Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments: ICAL: #26, 48, 63, 74, 98, 101, 114, 115, 120, and 121 calibrated only to 100ppm. #105, 109, 119, 122 fails. ICAL not good for Appendix IX.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39395	WG250777-01 50PPM DFTPP STD	1	1	STD21939	09/24/07 08:07
2	4M39396	WG250777-02 50PPM MEGAMIX STD	1	1	STD21155	09/24/07 08:26
3	4M39397	WG250777-04 10PPM MEGAMIX STD	1	1	STD21155	09/24/07 09:00
4	4M39398	WG250777-05 15PPM MEGAMIX STD	1	1	STD21155	09/24/07 09:35
5	4M39399	WG250777-06 25PPM MEGAMIX STD	1	1	STD21155	09/24/07 10:09
6	4M39400	WG250777-07 80PPM MEGAMIX STD	1	1	STD21155	09/24/07 10:43
7	4M39401	WG250777-08 100PPM MEGAMIX STD	1	1	STD21155	09/24/07 11:17
8	4M39402	WG250777-09 120PPM MEGAMIX STD	1	1	STD21155	09/24/07 11:51
9	4M39403	WG250777-03 3PPM MEGAMIX STD	1	1	STD21155	09/24/07 12:25
10	4M39404	WG250777-10 50PPM BNA Alt Source STD	1	1	STD21455	09/24/07 13:00
11	4M39405	WG250777-02 50PPM MEGAMIX STD	1	1	STD21155	09/24/07 13:35
12	4M39406	WG250777-11 50PPM A9 Alt Source STD	1	1	STD21461	09/24/07 14:09
13	4M39407	WG250777-10 50PPM BNA Alt Source STD	1	1	STD21455	09/24/07 14:44

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG250777-02 50PPM MEGAMIX STD - Not reported.			
10	X			
	WG250777-10 50PPM BNA Alt Source STD - Not reported.			

Page: 1 Approved: 27-SEP-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092807
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21057

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251280, WG251388, WG251394
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39463	WG251307-01 50PPM DFTPP STD	1	1	STD21939	09/28/07 08:04
2	4M39464	WG251307-02 50PPM MEGAMIX STD	1	1	STD21155	09/28/07 08:23
3	4M39465	WG251308-01 50PPM TCL STD	1	1	STD20141	09/28/07 08:57
4	4M39466	L0709596-12 SOIL	7	1	SOIL	09/28/07 09:31
5	4M39467	L0709596-13 SOIL	7	1	SOIL	09/28/07 10:05
6	4M39468	L0709596-14 SOIL	7	1	SOIL	09/28/07 10:39
7	4M39469	WG251181-02 BLK 9/27 EP288 P39	7	1	SOIL	09/28/07 11:13
8	4M39470	WG251181-03 LCS 9/27 EP288 P39	7	1	SOIL	09/28/07 11:47
9	4M39471	L0709654-01 SOIL	7	1	SOIL	09/28/07 12:20
10	4M39472	L0709633-01 SOIL	7	1	SOIL	09/28/07 12:54
11	4M39473	L0709633-02 SOIL	7	1	SOIL	09/28/07 13:28
12	4M39474	L0709633-03 SOIL	7	1	SOIL	09/28/07 14:01
13	4M39475	L0709633-04 SOIL	7	1	SOIL	09/28/07 14:35
14	4M39476	L0709633-05 SOIL	7	1	SOIL	09/28/07 15:09
15	4M39477	L0709633-06 SOIL	7	1	SOIL	09/28/07 15:42
16	4M39478	L0709633-07 SOIL	7	1	SOIL	09/28/07 16:16
17	4M39479	L0709633-08 SOIL	7	1	SOIL	09/28/07 16:50
18	4M39480	L0709633-09 SOIL	7	1	SOIL	09/28/07 17:23
19	4M39481	L0709633-10 SOIL	7	1	SOIL	09/28/07 17:56
20	4M39482	L0709633-11 SOIL	7	1	SOIL	09/28/07 18:30
21	4M39483	L0709522-03	1	1		09/28/07 19:04
22	4M39484	L0709624-01 SOIL	7	1	SOIL	09/28/07 19:38
23	4M39485	BAKE OUT	1	1		09/28/07 20:13
24	4M39486	BAKE OUT	1	1		09/28/07 20:47
25	4M39487	BAKE OUT	1	1		09/28/07 21:21
26	4M39488	TCL BNA SURR SPIKE 2X	1	2		09/28/07 21:55

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10				
	L0709633-01 SOIL - SS TBP low, Needs re-extracted.			
11				
	L0709633-02 SOIL - SS TBP low, Needs re-extracted.			
16				
	L0709633-07 SOIL - SS TBP low, Needs re-extracted.			

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KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 092807

Analyst1: CAA Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21057

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG251280, WG251388, WG251394

Internal STD: STD21429 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
19				
	L0709633-10 SOIL - SS TBP low, Needs re-extracted.			
21				
	L0709522-03 - SS TPH low.			

Approved: 01-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 100307
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21120

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251966, WG251965
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39544	WG251791-01 50PPM DFTPP STD	1	1	STD21939	10/03/07 08:40
2	4M39545	WG251791-02 50PPM MEGAMIX STD	1	1	STD22223	10/03/07 08:59
3	4M39546	WG251791-03 3PPM MEGAMIX STD	1	1	STD22223	10/03/07 09:33
4	4M39547	WG251791-04 15PPM MEGAMIX STD	1	1	STD22223	10/03/07 10:06
5	4M39548	WG251791-05 25PPM MEGAMIX STD	1	1	STD22223	10/03/07 10:40
6	4M39549	WG251791-06 80PPM MEGAMIX STD	1	1	STD22223	10/03/07 11:14
7	4M39550	WG251791-07 100PPM MEGAMIX STD	1	1	STD22223	10/03/07 11:48
8	4M39551	WG251791-08 120PPM MEGAMIX STD	1	1	STD22223	10/03/07 12:22
9	4M39552	WG251791-09 50PPM BNA Alt Source STD	1	1	STD21455	10/03/07 13:09
10	4M39553	WG251791-10 50PPM A9 Alt Source STD	1	1	STD21461	10/03/07 13:42
11	4M39555	WG251857-01 50PPM DFTPP STD	1	1	STD21939	10/03/07 14:12
12	4M39556	WG251857-02 50PPM MEGAMIX STD	1	1	STD22223	10/03/07 14:31
13	4M39557	WG251512-02 BLK 10/1 EP288 P67	7	1	SOIL	10/03/07 15:05
14	4M39558	WG251512-03 LCS 10/1 EP288 P67	7	1	SOIL	10/03/07 15:39
15	4M39559	WG251623-01 BLK 10/2 EP287 P107	1	1		10/03/07 16:13
16	4M39560	WG251623-02 LCS 10/2 EP287 P107	1	1		10/03/07 16:47
17	4M39561	WG251623-03 LCS DUP 10/2 EP287 P107	1	1		10/03/07 17:21
18	4M39562	L0709622-03	1	1		10/03/07 17:54
19	4M39563	L0709622-05	1	1		10/03/07 18:28
20	4M39564	L0709622-07	1	1		10/03/07 19:02
21	4M39565	L0709622-09	1	1		10/03/07 19:36
22	4M39566	L0709622-11 5X	1	5		10/03/07 20:10
23	4M39567	L0709622-13	1	1		10/03/07 20:44
24	4M39568	L0709583-02 20X	1	20		10/03/07 21:17
25	4M39569	L0709583-03 10X	1	10		10/03/07 21:51
26	4M39570	L0709584-01 20X	1	20		10/03/07 22:25
27	4M39571	L0709584-02 10X	1	10		10/03/07 22:59
28	4M39572	L0709668-01 10X SOIL	7	10	SOIL	10/03/07 23:32
29	4M39573	L0709668-02 10X SOIL	7	10	SOIL	10/04/07 00:06
30	4M39574	L0709668-03 10X SOIL	7	10	SOIL	10/04/07 00:41
31	4M39575	L0709668-04 10X SOIL	7	10	SOIL	10/04/07 01:15
32	4M39576	L0709668-05 10X SOIL	7	10	SOIL	10/04/07 01:49
33	4M39577	BAKEOUT	1	1		10/04/07 02:24
34	4M39578	BAKEOUT	1	1		10/04/07 02:58
35	4M39579	L0709669-06	2	1		10/04/07 03:32

Approved: 05-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 100307
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21120

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251966, WG251965
Internal STD: STD21429 Surrogate STD: NA

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
36	4M39580	L0710023-11	2	1		10/04/07 04:05
37	4M39581	L0709696-01	2	1		10/04/07 04:39
38	4M39582	L0709767-01	2	1		10/04/07 05:13

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13				
	WG251512-02 BLK 10/1 EP288 P67 - SS TPH high.			
14				
	WG251512-03 LCS 10/1 EP288 P67 - 2 compounds high; SS TPH high.			
16				
	WG251623-02 LCS 10/2 EP287 P107 - 1 compound low.			
21	X	10	Over Calibration Range	#17
	L0709622-09			
22	X	500	Over Calibration Range	#12
	L0709622-11 5X - 10x #17,38			
28				
	L0709668-01 10X SOIL - SS TPH high.			
37				
	L0709696-01 - SS PHL <10%.			

Approved: 05-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 100607
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21164

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251394, WG251389, WG252268
Internal STD: STD21429 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M39634	WG252131-01 50PPM DFTPP STD	1	1	STD21939	10/06/07 13:14
2	4M39635	WG252131-02 50PPM MEGAMIX STD	1	1	STD22223	10/06/07 13:32
3	4M39636	L0709668-20 10X SOIL RR	7	10	SOIL	10/06/07 14:05
4	4M39637	L0709626-01 SOIL	7	1	SOIL	10/06/07 14:39
5	4M39638	L0709626-02 SOIL	7	1	SOIL	10/06/07 15:12
6	4M39639	L0709626-04 SOIL	7	1	SOIL	10/06/07 15:45
7	4M39640	L0709626-03 5X SOIL	7	5	SOIL	10/06/07 16:18
8	4M39641	WG251181-01 L0709626-05 REF 5X SOIL	7	5	SOIL	10/06/07 16:51
9	4M39642	WG251181-04 L0709626-06 MS 5X SOIL	7	5	SOIL	10/06/07 17:24
10	4M39643	WG251181-05 L0709626-07 MSD 5X SOIL	7	5	SOIL	10/06/07 17:58
11	4M39644	L0709574-10 SOIL	7	1	SOIL	10/06/07 18:31
12	4M39645	L0709574-03 10X SOIL	7	10	SOIL	10/06/07 19:04
13	4M39646	L0709574-05 10X SOIL	7	10	SOIL	10/06/07 19:37
14	4M39647	L0709574-04 10X SOIL	7	10	SOIL	10/06/07 20:10
15	4M39648	L0709574-08 10X SOIL	7	10	SOIL	10/06/07 20:43
16	4M39649	L0709574-07 SOIL	7	1	SOIL	10/06/07 21:16
17	4M39650	L0709574-09 10X SOIL	7	10	SOIL	10/06/07 21:50
18	4M39651	L0709574-01 10X SOIL	7	10	SOIL	10/06/07 22:23
19	4M39652	L0709574-06 10X SOIL	7	10	SOIL	10/06/07 22:57
20	4M39653	L0709574-02 10X SOIL	7	10	SOIL	10/06/07 23:31
21	4M39654	BAKEOUT	1	1		10/07/07 00:04
22	4M39655	BAKEOUT	1	1		10/07/07 00:38
23	4M39656	BAKEOUT	1	1		10/07/07 01:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7	X	50	Over Calibration Range	#19
	L0709626-03 5X SOIL			
9				
	WG251181-04 L0709626-06 MS 5X SOIL - 6 compounds ND.			
10				
	WG251181-05 L0709626-07 MSD 5X SOIL - 7 compounds ND.			
12				
	L0709574-03 10X SOIL - SS FBP low.			
15				

Approved: 09-OCT-07

KEMRON Environmental Services

Instrument Run Log

Instrument: HPMS4 Dataset: 100607
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 21164

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG251394, WG251389, WG252268
Internal STD: STD21429 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	L0709574-08 10X SOIL - SS FBP low.			
17				
	L0709574-09 10X SOIL - SS TBP, 2FP ND, NBZ <10%, FBP, PHL low - Needs re-extracted.			
20				
	L0709574-02 10X SOIL - SS TBP ND, 2FP <10% - Needs re-extracted.			

Page: 2 Approved: 09-OCT-07

KEMRON Environmental Services
Data Checklist

Date: 24-SEP-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18458
Analytical Workgroups: ICAL ONLY

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	NA
TCL hits	NA
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	NA
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	NA
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
27-SEP-2007

Secondary Reviewer:
27-SEP-2007

Generated: SEP-27-2007 15:17:17

KEMRON Environmental Services
Data Checklist

Date: 28-SEP-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18493
Analytical Workgroups: L0709596, L0709654, L0709633, L0709522, L0709624

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
01-OCT-2007

Secondary Reviewer:
01-OCT-2007

Generated: OCT-01-2007 12:36:56

KEMRON Environmental Services
Data Checklist

Date: 03-OCT-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18575
Analytical Workgroups: L0709622, 09583(DL), 09584(DL), 09668, 09669, 10023, 09696, 09767

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	ECL

Primary Reviewer:
04-OCT-2007

Secondary Reviewer:
05-OCT-2007

Generated: OCT-05-2007 12:23:13

KEMRON Environmental Services
Data Checklist

Date: 06-OCT-2007
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 18631
Analytical Workgroups: L0709668(RR), L0709626, L0709574

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
08-OCT-2007

Secondary Reviewer:
09-OCT-2007

Generated: OCT-09-2007 09:14:06

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG251394
Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0086-SO-092107/MSD	09/21/07	09/24/07	09/27/07	14	5.72	10/06/07	40	9.42	
0085-SO-092107	09/21/07	09/24/07	09/27/07	14	5.74	10/06/07	40	9.32	
0082-SO-092107	09/21/07	09/24/07	09/27/07	14	5.87	10/06/07	40	9.28	
0086-SO-092107/MS	09/21/07	09/24/07	09/27/07	14	5.72	10/06/07	40	9.39	
0084-SO-092107	09/21/07	09/24/07	09/27/07	14	5.75	10/06/07	40	9.35	
0083-SO-092107	09/21/07	09/24/07	09/27/07	14	5.84	10/06/07	40	9.30	
0086-SO-092107	09/21/07	09/24/07	09/27/07	14	5.72	10/06/07	40	9.37	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626
Instrument Id: HPMS4
Workgroup (AAB#): WG251394

Method: 8270
CAL ID: HPMS4-24-SEP-07
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
WG251181-02	1.00	01	63.3	59.5	57.6	62.3	102	62.1
WG251181-03	1.00	01	82.3	64.0	59.3	62.1	100	66.5

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

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KEMRON Environmental Services

SURROGATE STANDARDS

Login Number: L0709626 Method: 8270
Instrument Id: HPMS4 CAL ID: HPMS4-03-OCT-07
Workgroup (AAB#): WG251394 Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L0709626-01	1.00	01	82.1	71.3	66.8	71.3	103	72.2
L0709626-02	1.00	01	68.5	53.1	53.0	56.1	100	58.6
L0709626-03	5.00	DL01	84.3	63.3	56.4	55.3	102	63.8
L0709626-04	1.00	01	57.0	47.2	50.8	51.7	100	54.4
L0709626-05	5.00	DL01	63.3	69.7	59.2	51.3	92.9	68.8
L0709626-06	5.00	DL01	86.9	70.8	64.3	55.1	107	71.2
L0709626-07	5.00	DL01	80.9	64.0	57.8	51.7	86.5	65.8

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

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KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251394
Blank File ID:	4M39469	**Blank Sample ID:**	WG251181-02
Prep Date:	09/27/07 08:00	**Instrument ID:**	HPMS4
Analyzed Date:	09/28/07 11:13	**Method:**	8270C
Analyst:	CAA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251181-03	4M39470	09/28/07 11:47	01
0082-SO-092107	L0709626-01	4M39637	10/06/07 14:39	01
0083-SO-092107	L0709626-02	4M39638	10/06/07 15:12	01
0085-SO-092107	L0709626-04	4M39639	10/06/07 15:45	01
0084-SO-092107	L0709626-03	4M39640	10/06/07 16:18	DL01
0086-SO-092107	L0709626-05	4M39641	10/06/07 16:51	DL01
0086-SO-092107/MS	L0709626-06	4M39642	10/06/07 17:24	DL01
0086-SO-092107/MSD	L0709626-07	4M39643	10/06/07 17:58	DL01

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 09/27/07 08:00 Sample ID: WG251181-02
Instrument ID: HPMS4 Run Date: 09/28/07 11:13 Prep Method: 3545
File ID: 4M39469 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251394 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS4-24-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

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KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 09/27/07 08:00 Sample ID: WG251181-02
Instrument ID: HPMS4 Run Date: 09/28/07 11:13 Prep Method: 3545
File ID: 4M39469 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251394 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS4-24-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	63.3	19	-	122	PASS
2-Fluorobiphenyl	59.5	30	-	115	PASS
2-Fluorophenol	57.6	25	-	121	PASS
Nitrobenzene-d5	62.3	23	-	120	PASS
p-Terphenyl-d14	102	18	-	137	PASS
Phenol-d5	62.1	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251181-03
Instrument ID: HPMS4 Run Time: 11:47 Prep Method: 3545
File ID: 4M39470 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251394 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS4-24-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4,5-Trichlorophenol	2500	1790	71.4	49 - 125	
2,4,6-Trichlorophenol	2500	1740	69.5	43 - 125	
2,4-Dichlorophenol	2500	1560	62.6	45 - 125	
2,4-Dimethylphenol	2500	1660	66.5	32 - 125	
2,4-Dinitrophenol	2500	2440	97.6	25 - 132	
2,4-Dinitrotoluene	2500	2490	99.6	48 - 125	
2,6-Dinitrotoluene	2500	1890	75.4	48 - 125	
2-Chloronaphthalene	2500	1350	54.2	45 - 125	
2-Chlorophenol	2500	1530	61.0	44 - 125	
2-Methylnaphthalene	2500	1460	58.5	47 - 125	
2-Methylphenol	2500	1630	65.3	40 - 125	
2-Nitroaniline	2500	1910	76.3	44 - 125	
2-Nitrophenol	2500	1510	60.3	42 - 125	
3,3'-Dichlorobenzidine	2500	2310	92.5	20 - 128	
3-,4-Methylphenol	2500	1890	75.4	50 - 120	
3-Nitroaniline	2500	2150	86.0	27 - 125	
4,6-Dinitro-2-methylphenol	2500	2350	94.0	29 - 137	
4-Bromophenyl phenyl ether	2500	1670	67.0	46 - 125	
4-Chloro-3-methylphenol	2500	1620	64.8	46 - 125	
4-Chloroaniline	2500	1440	57.8	20 - 120	
4-Chlorophenyl phenyl ether	2500	1640	65.5	47 - 125	
4-Nitroaniline	2500	2230	89.2	34 - 125	
4-Nitrophenol	2500	2120	84.6	25 - 138	
Acenaphthene	2500	1660	66.3	46 - 125	
Acenaphthylene	2500	1660	66.5	44 - 125	
Anthracene	2500	2180	87.1	53 - 125	
Benzo(a)anthracene	2500	2310	92.5	52 - 125	
Benzo(a)pyrene	2500	2290	91.5	50 - 125	
Benzo(b)fluoranthene	2500	2380	95.1	45 - 125	
Benzo(g,h,i)Perylene	2500	2340	93.4	38 - 126	
Benzo(k)fluoranthene	2500	2270	90.6	45 - 125	
Bis(2-Chloroethoxy)Methane	2500	1210	48.3	43 - 125	
Bis(2-Chloroethyl)ether	2500	1550	61.9	38 - 125	
bis(2-Chloroisopropyl)ether	2500	1600	63.9	25 - 125	
bis(2-Ethylhexyl)phthalate	2500	2470	98.8	47 - 127	
Butyl benzyl phthalate	2500	2670	107	49 - 125	
Carbazole	2500	2310	92.6	40 - 135	
Chrysene	2500	2310	92.2	53 - 125	
Dibenz(a,h)anthracene	2500	2340	93.7	41 - 125	
Dibenzofuran	2500	1660	66.5	51 - 125	
Diethyl phthalate	2500	2030	81.3	50 - 125	

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KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251181-03
Instrument ID: HPMS4 Run Time: 11:47 Prep Method: 3545
File ID: 4M39470 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG251394 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS4-24-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Dimethyl phthalate	2500	1830	73.4	49 - 125	
Di-N-Butylphthalate	2500	2370	95.0	56 - 125	
Di-n-octyl phthalate	2500	2470	99.0	41 - 132	
Fluoranthene	2500	2350	94.2	54 - 125	
Fluorene	2500	1800	71.8	49 - 125	
Hexachlorobenzene	2500	2040	81.5	47 - 125	
Hexachlorobutadiene	2500	1450	58.0	40 - 125	
Hexachlorocyclopentadiene	2500	1410	56.3	10 - 150	
Hexachloroethane	2500	1460	58.5	34 - 125	
Indeno(1,2,3-cd)pyrene	2500	2340	93.5	38 - 125	
Isophorone	2500	1580	63.2	43 - 125	
Naphthalene	2500	1390	55.7	40 - 125	
Nitrobenzene	2500	1480	59.1	41 - 125	
N-Nitrosodiphenylamine	2500	1760	70.4	49 - 125	
N-Nitrosodipropylamine	2500	1660	66.2	40 - 125	
Pentachlorophenol	2500	2650	106	25 - 125	
Phenanthrene	2500	2120	84.7	50 - 125	
Phenol	2500	1660	66.5	39 - 125	
Pyrene	2500	2330	93.3	46 - 125	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	82.3	19 - 122	PASS
2-Fluorobiphenyl	64.0	30 - 115	PASS
2-Fluorophenol	59.3	25 - 121	PASS
Nitrobenzene-d5	62.1	23 - 120	PASS
p-Terphenyl-d14	100	18 - 137	PASS
Phenol-d5	66.5	24 - 113	PASS

* FAILS %REC LIMIT

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 897286
Report generated 10/09/2007 11:36

KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID:HPMS4-03-OCT-07 Worknum:WG251394
Instrument ID:HPMS4 Contract #: Prep Method:3545
Parent ID:L0709626-05 File ID:4M39641 Dil:5 Method:8270C
Sample ID:L0709626-06 MS File ID:4M39642 Dil:5 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:4M39643 Dil:5 Units:ug/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
2,4,5-Trichlorophenol	U	3100	2390	77.2	3010	2070	68.6	14.5	49 - 125	30	
2,4,6-Trichlorophenol	U	3100	2070	66.9	3010	1880	62.3	9.90	43 - 125	30	
2,4-Dichlorophenol	U	3100	2360	76.1	3010	2120	70.3	10.7	45 - 125	30	
2,4-Dimethylphenol	U	3100	2610	84.1	3010	2280	75.6	13.5	32 - 125	30	
2,4-Dinitrophenol	U	3100	0	0	3010	0	0	NA	25 - 132	30	*#
2,4-Dinitrotoluene	U	3100	2160	69.6	3010	1450	48.0	39.5	48 - 125	30	#
2,6-Dinitrotoluene	U	3100	2200	70.9	3010	1710	56.7	25.0	48 - 125	30	
2-Chloronaphthalene	U	3100	2070	66.7	3010	1720	57.0	18.5	45 - 125	30	
2-Chlorophenol	U	3100	2220	71.6	3010	2060	68.3	7.55	44 - 125	30	
2-Methylnaphthalene	U	3100	2490	80.2	3010	2120	70.5	15.7	47 - 125	30	
2-Methylphenol	U	3100	2300	74.1	3010	2050	68.2	11.1	40 - 125	30	
2-Nitroaniline	U	3100	0	0	3010	0	0	NA	44 - 125	30	*#
2-Nitrophenol	U	3100	1420	45.9	3010	1020	33.7	33.2	42 - 125	30	*#
3,3'-Dichlorobenzidine	U	3100	2860	92.3	3010	2320	76.9	21.0	20 - 128	30	
3-,4-Methylphenol	U	3100	2590	83.6	3010	2320	77.0	11.0	50 - 120	30	
3-Nitroaniline	U	3100	0	0	3010	0	0	NA	27 - 125	30	*#
4,6-Dinitro-2-methylphenol	U	3100	0	0	3010	0	0	NA	29 - 137	30	*#
4-Bromophenyl phenyl ether	U	3100	2660	85.7	3010	2320	77.1	13.3	46 - 125	30	
4-Chloro-3-methylphenol	U	3100	2390	77.1	3010	2150	71.4	10.5	46 - 125	30	
4-Chloroaniline	U	3100	1690	54.7	3010	1600	53.1	5.72	20 - 120	30	
4-Chlorophenyl phenyl ether	U	3100	2830	91.2	3010	2480	82.2	13.1	47 - 125	30	
4-Nitroaniline	U	3100	2760	89.0	3010	0	0	200	34 - 125	30	*#
4-Nitrophenol	U	3100	0	0	3010	0	0	NA	25 - 138	30	*#
Acenaphthene	U	3100	2630	85.0	3010	2120	70.2	21.8	46 - 125	30	
Acenaphthylene	U	3100	2550	82.1	3010	2140	71.0	17.4	44 - 125	30	
Anthracene	U	3100	3180	103	3010	2620	87.0	19.2	53 - 125	30	
Benzo(a)anthracene	U	3100	3160	102	3010	2680	89.0	16.3	52 - 125	30	
Benzo(a)pyrene	U	3100	3110	100	3010	2690	89.2	14.5	50 - 125	30	
Benzo(b)fluoranthene	U	3100	3080	99.5	3010	2570	85.2	18.3	45 - 125	30	
Benzo(g,h,i)Perylene	U	3100	2890	93.3	3010	2480	82.2	15.4	38 - 126	30	
Benzo(k)fluoranthene	U	3100	2980	96.3	3010	2600	86.4	13.7	45 - 125	30	
Bis(2-Chloroethoxy)Methane	U	3100	1820	58.6	3010	1600	53.0	12.8	43 - 125	30	
Bis(2-Chloroethyl)ether	U	3100	2100	67.6	3010	1840	60.9	13.2	38 - 125	30	
bis(2-Chloroisopropyl)ether	U	3100	2170	70.1	3010	1690	56.0	25.2	25 - 125	30	
bis(2-Ethylhexyl)phthalate	U	3100	3490	113	3010	2860	94.9	19.8	47 - 127	30	
Butyl benzyl phthalate	U	3100	2950	95.2	3010	2170	72.0	30.5	49 - 125	30	#
Carbazole	U	3100	3450	111	3010	2800	92.8	20.8	40 - 135	30	
Chrysene	U	3100	3320	107	3010	2740	90.9	19.1	53 - 125	30	
Dibenz(a,h)anthracene	U	3100	3060	98.7	3010	2570	85.3	17.2	41 - 125	30	
Dibenzofuran	U	3100	2860	92.3	3010	2420	80.4	16.5	51 - 125	30	
Diethyl phthalate	U	3100	2860	92.2	3010	2280	75.6	22.6	50 - 125	30	

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KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID:HPMS4 03-OCT-07 Worknum:WG251394
Instrument ID:HPMS4 Contract #: Prep Method:3545
Parent ID:L0709626-05 File ID:4M39641 Dil:5 Method:8270C
Sample ID:L0709626-06 MS File ID:4M39642 Dil:5 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:4M39643 Dil:5 Units:ug/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Dimethyl phthalate	U	3100	2630	84.7	3010	2240	74.2	16.1	49 - 125	30	
Di-N-Butylphthalate	U	3100	3260	105	3010	2580	85.7	23.2	56 - 125	30	
Di-n-octyl phthalate	U	3100	3530	114	3010	2880	95.7	20.2	41 - 132	30	
Fluoranthene	U	3100	3470	112	3010	2800	92.9	21.4	54 - 125	30	
Fluorene	U	3100	2940	95.0	3010	2480	82.3	17.1	49 - 125	30	
Hexachlorobenzene	U	3100	3110	100	3010	2810	93.4	9.97	47 - 125	30	
Hexachlorobutadiene	U	3100	2330	75.3	3010	2060	68.3	12.5	40 - 125	30	
Hexachlorocyclopentadiene	U	3100	0	0	3010	0	0	NA	10 - 150	30	*#
Hexachloroethane	U	3100	1850	59.6	3010	1600	53.1	14.4	34 - 125	30	
Indeno(1,2,3-cd)pyrene	U	3100	2980	96.1	3010	2540	84.4	15.7	38 - 125	30	
Isophorone	U	3100	2400	77.6	3010	2100	69.6	13.7	43 - 125	30	
Naphthalene	U	3100	2360	76.2	3010	1980	65.8	17.3	40 - 125	30	
Nitrobenzene	U	3100	1960	63.3	3010	1680	55.6	15.7	41 - 125	30	
N-Nitrosodiphenylamine	U	3100	2600	83.9	3010	2160	71.8	18.3	49 - 125	30	
N-Nitrosodipropylamine	U	3100	2590	83.6	3010	2180	72.4	17.1	40 - 125	30	
Pentachlorophenol	U	3100	3030	97.9	3010	2750	91.1	9.95	25 - 125	30	
Phenanthrene	U	3100	3290	106	3010	2700	89.6	19.7	50 - 125	30	
Phenol	U	3100	2460	79.4	3010	2130	70.6	14.4	39 - 125	30	
Pyrene	U	3100	3270	106	3010	2500	82.9	26.8	46 - 125	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709626 Tune ID: WG250777-01
Instrument: HPMS4 Run Date: 09/24/2007
Analyst: CAA Run Time: 08:07
Workgroup: WG250777 File ID: 4M39395
Cal ID: HPMS4-24-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	49.6	90781	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	48.2	88081	PASS
70.0	69.0	0	2.00	0.400	352	PASS
127	198	40.0	60.0	49.1	89840	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	182890	PASS
199	198	5.00	9.00	6.81	12455	PASS
275	198	10.0	30.0	25.1	45898	PASS
365	198	1.00	100	2.58	4712	PASS
441	443	0.0100	100	75.7	21058	PASS
442	198	40.0	100	77.9	142432	PASS
443	442	17.0	23.0	19.5	27818	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG250777-04	STD	01	09/24/2007 09:00	
WG250777-05	STD	01	09/24/2007 09:35	
WG250777-06	STD	01	09/24/2007 10:09	
WG250777-07	STD	01	09/24/2007 10:43	
WG250777-08	STD	01	09/24/2007 11:17	
WG250777-09	STD	01	09/24/2007 11:51	
WG250777-03	STD	01	09/24/2007 12:25	
WG250777-02	STD-CCV	01	09/24/2007 13:35	
WG250777-11	SSCV	01	09/24/2007 14:09	
WG250777-10	SSCV	01	09/24/2007 14:44	

* Sample past 12 hour tune limit

KEMRON FORMS - Modified 03/12/2007
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KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709626 Tune ID: WG251307-01
Instrument: HPMS4 Run Date: 09/28/2007
Analyst: CAA Run Time: 08:04
Workgroup: WG251307 File ID: 4M39463
Cal ID: HPMS4-24-SEP-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	40.1	92602	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.8	94258	PASS
70.0	69.0	0	2.00	0.320	302	PASS
127	198	40.0	60.0	45.8	105829	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	230933	PASS
199	198	5.00	9.00	6.88	15884	PASS
275	198	10.0	30.0	26.1	60221	PASS
365	198	1.00	100	2.75	6349	PASS
441	443	0.0100	100	77.1	29170	PASS
442	198	40.0	100	85.6	197760	PASS
443	442	17.0	23.0	19.1	37813	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251307-02	CCV	01	09/28/2007 08:23	
WG251181-02	BLANK	01	09/28/2007 11:13	
WG251181-03	LCS	01	09/28/2007 11:47	

* Sample past 12 hour tune limit

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KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709626 Tune ID: WG251791-01
Instrument: HPMS4 Run Date: 10/03/2007
Analyst: CAA Run Time: 08:40
Workgroup: WG251791 File ID: 4M39544
Cal ID: HPMS4-03-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	37.4	97240	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	37.9	98368	PASS
70.0	69.0	0	2.00	0.391	385	PASS
127	198	40.0	60.0	43.8	113885	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	259861	PASS
199	198	5.00	9.00	6.70	17419	PASS
275	198	10.0	30.0	26.8	69733	PASS
365	198	1.00	100	2.82	7336	PASS
441	443	0.0100	100	75.7	33573	PASS
442	198	40.0	100	88.5	229973	PASS
443	442	17.0	23.0	19.3	44378	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG251791-02	STD-CCV	01	10/03/2007 08:59	
WG251791-03	STD	01	10/03/2007 09:33	
WG251791-04	STD	01	10/03/2007 10:06	
WG251791-05	STD	01	10/03/2007 10:40	
WG251791-06	STD	01	10/03/2007 11:14	
WG251791-07	STD	01	10/03/2007 11:48	
WG251791-08	STD	01	10/03/2007 12:22	
WG251791-09	SSCV	01	10/03/2007 13:09	
WG251791-10	SSCV	01	10/03/2007 13:42	

*** Sample past 12 hour tune limit**

KEMRON ENVIRONMENTAL SERVICES
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L0709626 Tune ID: WG252131-01
Instrument: HPMS4 Run Date: 10/06/2007
Analyst: CAA Run Time: 13:14
Workgroup: WG252131 File ID: 4M39634
Cal ID: HPMS4-03-OCT-07

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
51.0	198	30.0	60.0	46.6	113143	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	45.9	111262	PASS
70.0	69.0	0	2.00	0.543	604	PASS
127	198	40.0	60.0	47.5	115288	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	242538	PASS
199	198	5.00	9.00	6.75	16368	PASS
275	198	10.0	30.0	23.7	57424	PASS
365	198	1.00	100	2.29	5566	PASS
441	443	0.0100	100	77.8	24780	PASS
442	198	40.0	100	68.6	166429	PASS
443	442	17.0	23.0	19.1	31834	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG252131-02	CCV	01	10/06/2007 13:32	
L0709626-01	0082-SO-092107	01	10/06/2007 14:39	
L0709626-02	0083-SO-092107	01	10/06/2007 15:12	
L0709626-04	0085-SO-092107	01	10/06/2007 15:45	
L0709626-03	0084-SO-092107	DL01	10/06/2007 16:18	
L0709626-05	0086-SO-092107	DL01	10/06/2007 16:51	
WG251181-01	REF	DL01	10/06/2007 16:51	
L0709626-06	0086-SO-092107/MS	DL01	10/06/2007 17:24	
WG251181-04	MS	DL01	10/06/2007 17:24	
L0709626-07	0086-SO-092107/MSD	DL01	10/06/2007 17:58	
WG251181-05	MSD	DL01	10/06/2007 17:58	

* Sample past 12 hour tune limit

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KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

ICAL Workgroup: WG250777 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3715	14.9		
2,4-Dichlorophenol	CCC	0.2881	9.85		
2-Nitrophenol	CCC	0.1639	20.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3119	9.11		
Acenaphthene	CCC	1.190	13.9		
Benzo[a]pyrene	CCC	1.307	7.25		
Di-n-Octyl Phthalate	CCC	1.680	12.6		
Fluoranthene	CCC	1.339	12.7		
Hexachlorobutadiene	CCC	0.1858	9.00		
Pentachlorophenol	CCC	0.1217	21.6	0.999	
Phenol	CCC	1.738	9.22		
n-Nitrosodiphenylamine	CCC	0.7657	12.5		
2,4-Dinitrophenol	SPCC	0.05550	60.1		0.998
4-Nitrophenol	SPCC	0.2543	11.1		
Hexachlorocyclopentadiene	SPCC	0.2365	26.0		0.992
n-Nitrosodipropylamine	SPCC	0.8888	13.3		
2,4,5-Trichlorophenol		0.4074	11.9		
2,4-Dimethylphenol		0.3080	10.4		
2,4-Dinitrotoluene		0.3057	25.4	0.997	
2,6-Dinitrotoluene		0.3009	18.0	0.999	
2-Chloronaphthalene		1.421	11.5		
2-Chlorophenol		1.428	7.89		
2-Methylnaphthalene		0.7183	10.1		
2-Methylphenol		1.159	8.74		
2-Nitroaniline		0.3513	6.81		
3,3'-Dichlorobenzidine		0.4201	8.51		
3-,4-Methylphenol		1.508	8.74		
3-Nitroaniline		0.3242	9.97		
4,6-Dinitro-2-Methylphenol		0.09308	30.9	0.998	
4-Bromophenyl Phenyl Ether		0.2503	10.1		
4-Chloroaniline		0.4239	7.57		
4-Chlorophenyl Phenyl Ether		0.6951	16.6		0.996
4-Nitroaniline		0.3456	6.86		
Acenaphthylene		1.981	12.5		
Anthracene		1.307	12.9		
Benzo[a]anthracene		1.307	10.2		
Benzo[b]fluoranthene		1.430	12.6		
Benzo[ghi]perylene		1.162	8.83		
Benzo[k]fluoranthene		1.322	8.02		
Butyl Benzyl Phthalate		0.6249	21.5		0.999
Carbazole		1.197	12.1		
Chrysene		1.290	11.1		
Di-n-Butyl Phthalate		1.549	14.1		
Dibenz[ah]anthracene		1.147	11.0		
Dibenzofuran		1.758	14.5		

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KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35
ICAL Workgroup: WG250777 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.496	11.0		
Dimethylphthalate		1.468	10.9		
Fluorene		1.415	14.1		
Hexachlorobenzene		0.2451	10.6		
Hexachloroethane		0.5959	8.81		
Indeno[1,2,3-cd]pyrene		1.342	10.2		
Isophorone		0.6582	9.45		
Naphthalene		1.064	9.75		
Nitrobenzene		0.3634	8.78		
Phenanthrene		1.296	13.0		
Pyrene		1.366	13.8		
bis(2-Chloroethoxy)methane		0.5232	13.7		
bis(2-Chloroethyl)ether		1.057	11.8		
bis(2-Chloroisopropyl)ether		2.178	11.7		
bis(2-Ethylhexyl)phthalate		0.9077	12.9		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

ICAL Workgroup: WG251791 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3373	6.65		
2,4-Dichlorophenol	CCC	0.2669	3.87		
2-Nitrophenol	CCC	0.1599	11.8		
4-Chloro-3-Methylphenol	CCC	0.2762	5.36		
Acenaphthene	CCC	1.087	7.46		
Benzo[a]pyrene	CCC	1.197	4.88		
Di-n-Octyl Phthalate	CCC	1.463	13.4		
Fluoranthene	CCC	1.217	7.56		
Hexachlorobutadiene	CCC	0.1744	5.01		
Pentachlorophenol	CCC	0.1195	17.3	1.00	
Phenol	CCC	1.535	3.49		
n-Nitrosodiphenylamine	CCC	0.6933	6.86		
2,4-Dinitrophenol	SPCC	0.08932	35.8	0.996	
4-Nitrophenol	SPCC	0.2384	8.00		
Hexachlorocyclopentadiene	SPCC	0.2646	16.0	0.999	
n-Nitrosodipropylamine	SPCC	0.8158	5.26		
2,4,5-Trichlorophenol		0.3636	5.80		
2,4-Dimethylphenol		0.2822	4.24		
2,4-Dinitrotoluene		0.3338	13.5	0.998	
2,6-Dinitrotoluene		0.2972	10.4		
2-Chloronaphthalene		1.267	6.82		
2-Chlorophenol		1.265	3.32		
2-Methylnaphthalene		0.6508	5.45		
2-Methylphenol		1.012	3.85		
2-Nitroaniline		0.3173	3.96		
3,3'-Dichlorobenzidine		0.4170	4.45		
3-,4-Methylphenol		1.331	3.89		
3-Nitroaniline		0.3223	3.12		
4,6-Dinitro-2-Methylphenol		0.1003	41.6	0.997	
4-Bromophenyl Phenyl Ether		0.2290	5.53		
4-Chloroaniline		0.4056	2.83		
4-Chlorophenyl Phenyl Ether		0.6214	12.5		
4-Nitroaniline		0.3342	2.88		
Acenaphthylene		1.765	5.83		
Anthracene		1.183	7.05		
Benzo[a]anthracene		1.230	5.09		
Benzo[b]fluoranthene		1.318	7.68		
Benzo[ghi]perylene		1.087	6.71		
Benzo[k]fluoranthene		1.230	4.14		
Butyl Benzyl Phthalate		0.5328	15.3		1.00
Carbazole		1.076	5.58		
Chrysene		1.193	6.30		
Di-n-Butyl Phthalate		1.358	6.05		
Dibenz[ah]anthracene		1.077	6.25		
Dibenzofuran		1.509	11.4		

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KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22
ICAL Workgroup: WG251791 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.296	4.85		
Dimethylphthalate		1.294	5.06		
Fluorene		1.275	8.81		
Hexachlorobenzene		0.2283	6.34		
Hexachloroethane		0.5309	3.76		
Indeno[1,2,3-cd]pyrene		1.262	6.89		
Isophorone		0.5841	4.38		
Naphthalene		0.9748	4.85		
Nitrobenzene		0.3445	5.69		
Phenanthrene		1.175	8.44		
Pyrene		1.253	8.50		
bis(2-Chloroethoxy)methane		0.4756	6.87		
bis(2-Chloroethyl)ether		0.9236	3.64		
bis(2-Chloroisopropyl)ether		1.909	4.75		
bis(2-Ethylhexyl)phthalate		0.8054	9.38		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-02			WG250777-03			WG250777-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	335617.000	0.3759	3.00	12952.0000	0.2433	10.0	65323.0000	0.3854
2,4-Dichlorophenol	50.0	450743.000	0.2897	3.00	21261.0000	0.2226	10.0	92477.0000	0.3040
2-Nitrophenol	50.0	296926.000	0.1909	3.00	9731.00000	0.1019	10.0	36579.0000	0.1202
4-Chloro-3-Methylphenol	50.0	492567.000	0.3166	3.00	24667.0000	0.2582	10.0	99418.0000	0.3268
Acenaphthene	50.0	1026771.00	1.150	3.00	59449.0000	1.117	10.0	237691.000	1.402
Benzo[a]pyrene	50.0	1780876.00	1.303	3.00	87625.0000	1.166	10.0	369563.000	1.405
Di-n-Octyl Phthalate	50.0	2427330.00	1.777	3.00	105581.000	1.406	10.0	490022.000	1.862
Fluoranthene	50.0	1878097.00	1.308	3.00	106095.000	1.269	10.0	432004.000	1.544
Hexachlorobutadiene	50.0	277380.000	0.1783	3.00	15706.0000	0.1644	10.0	64495.0000	0.2120
Pentachlorophenol	50.0	183579.000	0.1278	NA	NA	NA	10.0	19580.0000	0.07000
Phenol	50.0	671810.000	1.762	3.00	36572.0000	1.542	10.0	141051.000	1.859
n-Nitrosodiphenylamine	50.0	1097800.00	0.7642	3.00	59681.0000	0.7138	10.0	241863.000	0.8644
2,4-Dinitrophenol	50.0	56901.0000	0.06370	NA	NA	NA	10.0	1378.00000	0.008100
4-Nitrophenol	50.0	221819.000	0.2484	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	214999.000	0.2408	3.00	5298.00000	0.09950	10.0	41470.0000	0.2446
n-Nitrosodipropylamine	50.0	346454.000	0.9088	3.00	19252.0000	0.8117	10.0	75354.0000	0.9932
2,4,5-Trichlorophenol	50.0	362901.000	0.4064	3.00	16014.0000	0.3008	10.0	71604.0000	0.4224
2,4-Dimethylphenol	50.0	483223.000	0.3106	3.00	25071.0000	0.2624	10.0	104347.000	0.3430
2,4-Dinitrotoluene	50.0	336915.000	0.3773	3.00	8484.00000	0.1593	10.0	35533.0000	0.2096
2,6-Dinitrotoluene	50.0	296403.000	0.3320	3.00	10161.0000	0.1908	10.0	41136.0000	0.2427
2-Chloronaphthalene	50.0	1219898.00	1.366	3.00	69849.0000	1.312	10.0	277079.000	1.635
2-Chlorophenol	50.0	545968.000	1.432	3.00	28677.0000	1.209	10.0	113594.000	1.497
2-Methylnaphthalene	50.0	1098789.00	0.7063	3.00	62894.0000	0.6584	10.0	250307.000	0.8227
2-Methylphenol	50.0	445802.000	1.169	3.00	23446.0000	0.9885	10.0	94655.0000	1.248
2-Nitroaniline	50.0	332319.000	0.3722	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	640593.000	0.4329	3.00	30561.0000	0.3707	10.0	132929.000	0.4467
3-,4-Methylphenol	50.0	578566.000	1.518	3.00	29791.0000	1.256	10.0	119789.000	1.579
3-Nitroaniline	50.0	301238.000	0.3374	NA	NA	NA	10.0	43906.0000	0.2590
4,6-Dinitro-2-Methylphenol	50.0	140874.000	0.09810	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	348932.000	0.2429	3.00	19091.0000	0.2283	10.0	79689.0000	0.2848
4-Chloroaniline	50.0	678506.000	0.4361	3.00	34096.0000	0.3569	10.0	125850.000	0.4137
4-Chlorophenyl Phenyl Ether	50.0	600707.000	0.6728	3.00	34795.0000	0.6535	10.0	143664.000	0.8475
4-Nitroaniline	50.0	306149.000	0.3429	NA	NA	NA	10.0	53177.0000	0.3137
Acenaphthylene	50.0	1713071.00	1.919	3.00	94822.0000	1.781	10.0	386930.000	2.283
Anthracene	50.0	1853750.00	1.291	3.00	102831.000	1.230	10.0	417937.000	1.494
Benzo[a]anthracene	50.0	1942098.00	1.312	3.00	102467.000	1.243	10.0	433093.000	1.455
Benzo[b]fluoranthene	50.0	1906973.00	1.396	3.00	112457.000	1.497	10.0	432358.000	1.643
Benzo[ghi]perylene	50.0	1577686.00	1.155	3.00	71129.0000	0.9468	10.0	324029.000	1.232
Benzo[k]fluoranthene	50.0	1875706.00	1.373	3.00	93751.0000	1.248	10.0	372266.000	1.415
Butyl Benzyl Phthalate	50.0	916296.000	0.6192	3.00	57648.0000	0.6992	10.0	219574.000	0.7378
Carbazole	50.0	1720913.00	1.198	3.00	90944.0000	1.088	10.0	371018.000	1.326
Chrysene	50.0	1910834.00	1.291	3.00	103571.000	1.256	10.0	435006.000	1.462

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-02			WG250777-03			WG250777-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	2252562.00	1.568	3.00	118594.000	1.418	10.0	488870.000	1.747
Dibenz[ah]anthracene	50.0	1581899.00	1.158	3.00	66284.0000	0.8824	10.0	327241.000	1.244
Dibenzofuran	50.0	1484671.00	1.663	3.00	87625.0000	1.646	10.0	349150.000	2.060
Diethylphthalate	50.0	1294196.00	1.450	3.00	71343.0000	1.340	10.0	284751.000	1.680
Dimethylphthalate	50.0	1268540.00	1.421	3.00	69853.0000	1.312	10.0	280908.000	1.657
Fluorene	50.0	1208343.00	1.353	3.00	71956.0000	1.352	10.0	285611.000	1.685
Hexachlorobenzene	50.0	341888.000	0.2380	3.00	18654.0000	0.2231	10.0	78912.0000	0.2820
Hexachloroethane	50.0	229809.000	0.6028	3.00	11937.0000	0.5033	10.0	48577.0000	0.6403
Indeno[1,2,3-cd]pyrene	50.0	1847458.00	1.352	3.00	79107.0000	1.053	10.0	376542.000	1.431
Isophorone	50.0	1038274.00	0.6674	3.00	56051.0000	0.5867	10.0	216188.000	0.7106
Naphthalene	50.0	1630911.00	1.048	3.00	93625.0000	0.9801	10.0	366430.000	1.204
Nitrobenzene	50.0	604792.000	0.3888	3.00	29137.0000	0.3050	10.0	104870.000	0.3447
Phenanthrene	50.0	1824589.00	1.270	3.00	104413.000	1.249	10.0	422133.000	1.509
Pyrene	50.0	1977958.00	1.337	3.00	113547.000	1.377	10.0	465017.000	1.563
bis(2-Chloroethoxy)methane	50.0	825918.000	0.5309	3.00	47550.0000	0.4977	10.0	183193.000	0.6021
bis(2-Chloroethyl)ether	50.0	405250.000	1.063	3.00	23984.0000	1.011	10.0	89098.0000	1.174
bis(2-Chloroisopropyl)ether	50.0	850401.000	2.231	3.00	48106.0000	2.028	10.0	177595.000	2.341
bis(2-Ethylhexyl)phthalate	50.0	1422962.00	0.9616	3.00	68080.0000	0.8257	10.0	291894.000	0.9808

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-05			WG250777-06			WG250777-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	156695.000	0.4285	25.0	194178.000	0.4044	80.0	651720.000	0.3929
2,4-Dichlorophenol	15.0	213765.000	0.3164	25.0	258680.000	0.3020	80.0	855261.000	0.2975
2-Nitrophenol	15.0	119456.000	0.1768	25.0	154105.000	0.1799	80.0	529042.000	0.1840
4-Chloro-3-Methylphenol	15.0	242013.000	0.3582	25.0	274888.000	0.3209	80.0	903803.000	0.3144
Acenaphthene	15.0	521699.000	1.427	25.0	620191.000	1.292	80.0	1860358.00	1.122
Benzo[a]pyrene	15.0	837034.000	1.443	25.0	1057183.00	1.361	80.0	3758888.00	1.316
Di-n-Octyl Phthalate	15.0	1171427.00	2.020	25.0	1367576.00	1.761	80.0	4657739.00	1.630
Fluoranthene	15.0	936355.000	1.579	25.0	1163108.00	1.463	80.0	3566752.00	1.262
Hexachlorobutadiene	15.0	135586.000	0.2007	25.0	170571.000	0.1991	80.0	536623.000	0.1867
Pentachlorophenol	15.0	68553.0000	0.1156	25.0	88403.0000	0.1112	80.0	403778.000	0.1429
Phenol	15.0	335681.000	2.043	25.0	374735.000	1.764	80.0	1194848.00	1.707
n-Nitrosodiphenylamine	15.0	542984.000	0.9158	25.0	658254.000	0.8279	80.0	2047084.00	0.7243
2,4-Dinitrophenol	15.0	10056.0000	0.02750	25.0	14772.0000	0.03080	80.0	125896.000	0.07590
4-Nitrophenol	15.0	88534.0000	0.2421	25.0	99525.0000	0.2073	80.0	440590.000	0.2656
Hexachlorocyclopentadiene	15.0	106307.000	0.2907	25.0	140439.000	0.2925	80.0	450059.000	0.2713
n-Nitrosodipropylamine	15.0	182065.000	1.108	25.0	194428.000	0.9152	80.0	582563.000	0.8323
2,4,5-Trichlorophenol	15.0	171249.000	0.4683	25.0	207864.000	0.4329	80.0	706571.000	0.4260
2,4-Dimethylphenol	15.0	239837.000	0.3550	25.0	277884.000	0.3244	80.0	879496.000	0.3060
2,4-Dinitrotoluene	15.0	124315.000	0.3399	25.0	159047.000	0.3313	80.0	599246.000	0.3613
2,6-Dinitrotoluene	15.0	123431.000	0.3375	25.0	150238.000	0.3129	80.0	559478.000	0.3373
2-Chloronaphthalene	15.0	606765.000	1.659	25.0	732610.000	1.526	80.0	2263467.00	1.365
2-Chlorophenol	15.0	263780.000	1.605	25.0	310447.000	1.461	80.0	1013441.00	1.448
2-Methylnaphthalene	15.0	547737.000	0.8107	25.0	652511.000	0.7617	80.0	2012580.00	0.7002
2-Methylphenol	15.0	218485.000	1.330	25.0	250647.000	1.180	80.0	794349.000	1.135
2-Nitroaniline	15.0	139253.000	0.3808	25.0	150260.000	0.3130	80.0	581739.000	0.3507
3,3'-Dichlorobenzidine	15.0	300294.000	0.4793	25.0	373273.000	0.4351	80.0	1295825.00	0.4170
3-,4-Methylphenol	15.0	284733.000	1.733	25.0	323744.000	1.524	80.0	1055380.00	1.508
3-Nitroaniline	15.0	122346.000	0.3345	25.0	145772.000	0.3036	80.0	578664.000	0.3489
4,6-Dinitro-2-Methylphenol	15.0	33095.0000	0.05580	25.0	47008.0000	0.05910	80.0	303541.000	0.1074
4-Bromophenyl Phenyl Ether	15.0	168390.000	0.2840	25.0	213640.000	0.2687	80.0	682844.000	0.2416
4-Chloroaniline	15.0	317420.000	0.4698	25.0	365167.000	0.4263	80.0	1272470.00	0.4427
4-Chlorophenyl Phenyl Ether	15.0	304600.000	0.8329	25.0	378516.000	0.7884	80.0	1084756.00	0.6540
4-Nitroaniline	15.0	142994.000	0.3910	25.0	168746.000	0.3515	80.0	580697.000	0.3501
Acenaphthylene	15.0	860403.000	2.353	25.0	1026678.00	2.138	80.0	3159326.00	1.905
Anthracene	15.0	926461.000	1.563	25.0	1124129.00	1.414	80.0	3485384.00	1.233
Benzo[a]anthracene	15.0	946552.000	1.511	25.0	1188084.00	1.385	80.0	3852495.00	1.240
Benzo[b]fluoranthene	15.0	970455.000	1.673	25.0	1169521.00	1.506	80.0	3663230.00	1.282
Benzo[ghi]perylene	15.0	743663.000	1.282	25.0	943741.000	1.215	80.0	3462949.00	1.212
Benzo[k]fluoranthene	15.0	873637.000	1.506	25.0	1042656.00	1.343	80.0	3615790.00	1.266
Butyl Benzyl Phthalate	15.0	483126.000	0.7711	25.0	562864.000	0.6561	80.0	1515138.00	0.4876
Carbazole	15.0	855324.000	1.443	25.0	1023140.00	1.287	80.0	3227438.00	1.142
Chrysene	15.0	934920.000	1.492	25.0	1175865.00	1.371	80.0	3771537.00	1.214

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-05			WG250777-06			WG250777-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	1137276.00	1.918	25.0	1327439.00	1.670	80.0	4113589.00	1.455
Dibenz[ah]anthracene	15.0	744657.000	1.284	25.0	953902.000	1.228	80.0	3392018.00	1.187
Dibenzofuran	15.0	753009.000	2.059	25.0	908841.000	1.893	80.0	2664453.00	1.606
Diethylphthalate	15.0	646625.000	1.768	25.0	757776.000	1.578	80.0	2425251.00	1.462
Dimethylphthalate	15.0	628488.000	1.719	25.0	753200.000	1.569	80.0	2369871.00	1.429
Fluorene	15.0	613403.000	1.677	25.0	743010.000	1.548	80.0	2207012.00	1.331
Hexachlorobenzene	15.0	164097.000	0.2768	25.0	210362.000	0.2646	80.0	674650.000	0.2387
Hexachloroethane	15.0	111725.000	0.6798	25.0	128658.000	0.6056	80.0	419460.000	0.5993
Indeno[1,2,3-cd]pyrene	15.0	868614.000	1.498	25.0	1109043.00	1.428	80.0	3970762.00	1.390
Isophorone	15.0	524391.000	0.7761	25.0	571242.000	0.6668	80.0	1840598.00	0.6403
Naphthalene	15.0	818325.000	1.211	25.0	956803.000	1.117	80.0	2973363.00	1.034
Nitrobenzene	15.0	279599.000	0.4138	25.0	315038.000	0.3677	80.0	1071083.00	0.3726
Phenanthrene	15.0	909615.000	1.534	25.0	1110570.00	1.397	80.0	3402511.00	1.204
Pyrene	15.0	998058.000	1.593	25.0	1226823.00	1.430	80.0	3702294.00	1.192
bis(2-Chloroethoxy)methane	15.0	428402.000	0.6341	25.0	476696.000	0.5564	80.0	1401519.00	0.4876
bis(2-Chloroethyl)ether	15.0	212954.000	1.296	25.0	225549.000	1.062	80.0	691144.000	0.9874
bis(2-Chloroisopropyl)ether	15.0	445750.000	2.712	25.0	456798.000	2.150	80.0	1434566.00	2.050
bis(2-Ethylhexyl)phthalate	15.0	701631.000	1.120	25.0	817535.000	0.9530	80.0	2643673.00	0.8508

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-08			WG250777-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	925528.000	0.3701	120	967306.000	0.3714
2,4-Dichlorophenol	100	1228697.00	0.2855	120	1280775.00	0.2870
2-Nitrophenol	100	763012.000	0.1773	120	802474.000	0.1798
4-Chloro-3-Methylphenol	100	1300654.00	0.3023	120	1328198.00	0.2976
Acenaphthene	100	2516664.00	1.006	120	2617366.00	1.005
Benzo[a]pyrene	100	5342867.00	1.216	120	5594942.00	1.245
Di-n-Octyl Phthalate	100	6540097.00	1.489	120	6733061.00	1.499
Fluoranthene	100	4783939.00	1.139	120	5014354.00	1.148
Hexachlorobutadiene	100	738650.000	0.1717	120	773038.000	0.1732
Pentachlorophenol	100	597547.000	0.1423	120	621131.000	0.1423
Phenol	100	1682129.00	1.617	120	1733310.00	1.608
n-Nitrosodiphenylamine	100	2759922.00	0.6572	120	2871789.00	0.6577
2,4-Dinitrophenol	100	223436.000	0.08930	120	242621.000	0.09320
4-Nitrophenol	100	709673.000	0.2838	120	725636.000	0.2786
Hexachlorocyclopentadiene	100	570892.000	0.2283	120	583453.000	0.2240
n-Nitrosodipropylamine	100	808200.000	0.7770	120	823650.000	0.7639
2,4,5-Trichlorophenol	100	998481.000	0.3992	120	1049563.00	0.4030
2,4-Dimethylphenol	100	1207218.00	0.2806	120	1257812.00	0.2818
2,4-Dinitrotoluene	100	830314.000	0.3320	120	871075.000	0.3345
2,6-Dinitrotoluene	100	816483.000	0.3265	120	852863.000	0.3275
2-Chloronaphthalene	100	3132499.00	1.253	120	3265739.00	1.254
2-Chlorophenol	100	1440063.00	1.385	120	1498939.00	1.390
2-Methylnaphthalene	100	2759680.00	0.6413	120	2877590.00	0.6447
2-Methylphenol	100	1152654.00	1.108	120	1200408.00	1.113
2-Nitroaniline	100	870217.000	0.3480	120	893000.000	0.3429
3,3'-Dichlorobenzidine	100	1793047.00	0.3875	120	1873314.00	0.3913
3-,4-Methylphenol	100	1526293.00	1.467	120	1596371.00	1.481
3-Nitroaniline	100	857906.000	0.3430	120	893281.000	0.3430
4,6-Dinitro-2-Methylphenol	100	492347.000	0.1172	120	528013.000	0.1209
4-Bromophenyl Phenyl Ether	100	946293.000	0.2253	120	989951.000	0.2267
4-Chloroaniline	100	1816750.00	0.4222	120	1889096.00	0.4232
4-Chlorophenyl Phenyl Ether	100	1389278.00	0.5555	120	1448448.00	0.5562
4-Nitroaniline	100	837513.000	0.3349	120	872101.000	0.3349
Acenaphthylene	100	4343376.00	1.737	120	4503980.00	1.729
Anthracene	100	4657712.00	1.109	120	4886920.00	1.119
Benzo[a]anthracene	100	5336326.00	1.153	120	5554639.00	1.160
Benzo[b]fluoranthene	100	5283573.00	1.203	120	5568353.00	1.239
Benzo[ghi]perylene	100	4906087.00	1.117	120	5097884.00	1.135
Benzo[k]fluoranthene	100	5278697.00	1.202	120	5488526.00	1.222
Butyl Benzyl Phthalate	100	1865672.00	0.4032	NA	NA	NA
Carbazole	100	4425267.00	1.054	120	4529614.00	1.037
Chrysene	100	5142175.00	1.111	120	5375526.00	1.123

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 24-SEP-07 13:35

Column ID: F

Analyte	WG250777-08			WG250777-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	5492446.00	1.308	120	5701082.00	1.306
Dibenz[ah]anthracene	100	4757266.00	1.083	120	4980016.00	1.108
Dibenzofuran	100	3443671.00	1.377	NA	NA	NA
Diethylphthalate	100	3373644.00	1.349	120	3484824.00	1.338
Dimethylphthalate	100	3313752.00	1.325	120	3428103.00	1.316
Fluorene	100	2966003.00	1.186	120	3095317.00	1.189
Hexachlorobenzene	100	913662.000	0.2176	120	961760.000	0.2203
Hexachloroethane	100	590045.000	0.5673	120	613264.000	0.5688
Indeno[1,2,3-cd]pyrene	100	5629191.00	1.282	120	5858729.00	1.304
Isophorone	100	2632882.00	0.6119	120	2705019.00	0.6060
Naphthalene	100	4112252.00	0.9557	120	4277080.00	0.9583
Nitrobenzene	100	1542648.00	0.3585	120	1589936.00	0.3562
Phenanthrene	100	4626929.00	1.102	120	4816438.00	1.103
Pyrene	100	4948255.00	1.069	NA	NA	NA
bis(2-Chloroethoxy)methane	100	1892386.00	0.4398	120	1949274.00	0.4367
bis(2-Chloroethyl)ether	100	974638.000	0.9370	120	999074.000	0.9266
bis(2-Chloroisopropyl)ether	100	2053293.00	1.974	120	2092073.00	1.940
bis(2-Ethylhexyl)phthalate	100	3644132.00	0.7876	120	3744044.00	0.7820

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-02			WG251791-03			WG251791-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	299076.000	0.3570	3.00	17642.0000	0.2893	15.0	95586.0000	0.3528
2,4-Dichlorophenol	50.0	396527.000	0.2739	3.00	25473.0000	0.2447	15.0	129950.000	0.2757
2-Nitrophenol	50.0	241447.000	0.1668	3.00	12419.0000	0.1193	15.0	72829.0000	0.1545
4-Chloro-3-Methylphenol	50.0	415808.000	0.2872	3.00	25476.0000	0.2447	15.0	134093.000	0.2845
Acenaphthene	50.0	926076.000	1.105	3.00	71663.0000	1.175	15.0	320549.000	1.183
Benzo[a]pyrene	50.0	1582904.00	1.244	3.00	97450.0000	1.069	15.0	494579.000	1.230
Di-n-Octyl Phthalate	50.0	2059053.00	1.619	3.00	94224.0000	1.034	15.0	599178.000	1.490
Fluoranthene	50.0	1691630.00	1.233	3.00	128906.000	1.314	15.0	582916.000	1.324
Hexachlorobutadiene	50.0	249746.000	0.1725	3.00	19731.0000	0.1895	15.0	85941.0000	0.1824
Pentachlorophenol	50.0	171692.000	0.1252	NA	NA	NA	15.0	37939.0000	0.08620
Phenol	50.0	577347.000	1.583	3.00	38934.0000	1.445	15.0	189826.000	1.589
n-Nitrosodiphenylamine	50.0	963152.000	0.7021	3.00	72810.0000	0.7421	15.0	329163.000	0.7476
2,4-Dinitrophenol	50.0	71860.0000	0.08580	NA	NA	NA	15.0	11536.0000	0.04260
4-Nitrophenol	50.0	213326.000	0.2546	NA	NA	NA	15.0	57241.0000	0.2112
Hexachlorocyclopentadiene	50.0	246647.000	0.2944	3.00	10567.0000	0.1733	15.0	70774.0000	0.2612
n-Nitrosodipropylamine	50.0	308775.000	0.8466	3.00	20678.0000	0.7673	15.0	103681.000	0.8681
2,4,5-Trichlorophenol	50.0	318646.000	0.3804	3.00	19372.0000	0.3177	15.0	102257.000	0.3774
2,4-Dimethylphenol	50.0	421198.000	0.2909	3.00	29319.0000	0.2816	15.0	140195.000	0.2975
2,4-Dinitrotoluene	50.0	306106.000	0.3654	3.00	14312.0000	0.2347	15.0	94527.0000	0.3489
2,6-Dinitrotoluene	50.0	264067.000	0.3152	3.00	13893.0000	0.2278	15.0	82478.0000	0.3044
2-Chloronaphthalene	50.0	1084192.00	1.294	3.00	83222.0000	1.365	15.0	371119.000	1.370
2-Chlorophenol	50.0	475995.000	1.305	3.00	31657.0000	1.175	15.0	153132.000	1.282
2-Methylnaphthalene	50.0	954130.000	0.6590	3.00	71981.0000	0.6914	15.0	326184.000	0.6921
2-Methylphenol	50.0	379954.000	1.042	3.00	24948.0000	0.9258	15.0	123412.000	1.033
2-Nitroaniline	50.0	273042.000	0.3259	NA	NA	NA	15.0	80168.0000	0.2959
3,3'-Dichlorobenzidine	50.0	611473.000	0.4361	3.00	39858.0000	0.3919	15.0	196318.000	0.4384
3-,4-Methylphenol	50.0	500699.000	1.373	3.00	32787.0000	1.217	15.0	161440.000	1.352
3-Nitroaniline	50.0	277492.000	0.3312	NA	NA	NA	15.0	83185.0000	0.3070
4,6-Dinitro-2-Methylphenol	50.0	150980.000	0.1101	3.00	2433.00000	0.02480	15.0	31239.0000	0.07100
4-Bromophenyl Phenyl Ether	50.0	312385.000	0.2277	3.00	24291.0000	0.2476	15.0	107129.000	0.2433
4-Chloroaniline	50.0	599596.000	0.4141	3.00	40076.0000	0.3850	15.0	196992.000	0.4180
4-Chlorophenyl Phenyl Ether	50.0	534681.000	0.6382	3.00	43832.0000	0.7188	15.0	191003.000	0.7049
4-Nitroaniline	50.0	288127.000	0.3439	NA	NA	NA	15.0	93257.0000	0.3442
Acenaphthylene	50.0	1518667.00	1.813	3.00	110250.000	1.808	15.0	519572.000	1.918
Anthracene	50.0	1652290.00	1.205	3.00	123869.000	1.262	15.0	564959.000	1.283
Benzo[a]anthracene	50.0	1745379.00	1.245	3.00	131421.000	1.292	15.0	585925.000	1.309
Benzo[b]fluoranthene	50.0	1771262.00	1.392	3.00	129714.000	1.423	15.0	575790.000	1.432
Benzo[ghi]perylene	50.0	1441028.00	1.133	3.00	84961.0000	0.9321	15.0	435745.000	1.083
Benzo[k]fluoranthene	50.0	1613457.00	1.268	3.00	112735.000	1.237	15.0	494818.000	1.230
Butyl Benzyl Phthalate	50.0	779861.000	0.5562	3.00	59825.0000	0.5883	15.0	281465.000	0.6286
Carbazole	50.0	1502243.00	1.095	3.00	108149.000	1.102	15.0	509066.000	1.156
Chrysene	50.0	1695138.00	1.209	3.00	129312.000	1.272	15.0	578073.000	1.291

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-02			WG251791-03			WG251791-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	1933625.00	1.410	3.00	126447.000	1.289	15.0	642535.000	1.459
Dibenz[ah]anthracene	50.0	1440847.00	1.133	3.00	84674.0000	0.9289	15.0	443157.000	1.102
Dibenzofuran	50.0	1287175.00	1.537	3.00	104058.000	1.707	15.0	462392.000	1.707
Diethylphthalate	50.0	1114649.00	1.331	3.00	80294.0000	1.317	15.0	376663.000	1.390
Dimethylphthalate	50.0	1112053.00	1.327	3.00	82354.0000	1.351	15.0	373691.000	1.379
Fluorene	50.0	1085280.00	1.296	3.00	85280.0000	1.399	15.0	383903.000	1.417
Hexachlorobenzene	50.0	309162.000	0.2254	3.00	24970.0000	0.2545	15.0	105356.000	0.2393
Hexachloroethane	50.0	197657.000	0.5419	3.00	13146.0000	0.4878	15.0	64336.0000	0.5387
Indeno[1,2,3-cd]pyrene	50.0	1681116.00	1.322	3.00	97370.0000	1.068	15.0	520352.000	1.294
Isophorone	50.0	877327.000	0.6060	3.00	55610.0000	0.5342	15.0	281969.000	0.5983
Naphthalene	50.0	1428178.00	0.9865	3.00	106596.000	1.024	15.0	487442.000	1.034
Nitrobenzene	50.0	520773.000	0.3597	3.00	31592.0000	0.3035	15.0	165799.000	0.3518
Phenanthrene	50.0	1611380.00	1.175	3.00	127850.000	1.303	15.0	564929.000	1.283
Pyrene	50.0	1779946.00	1.270	3.00	137834.000	1.355	15.0	620101.000	1.385
bis(2-Chloroethoxy)methane	50.0	714734.000	0.4937	3.00	50495.0000	0.4850	15.0	240821.000	0.5110
bis(2-Chloroethyl)ether	50.0	347294.000	0.9522	3.00	23570.0000	0.8747	15.0	113855.000	0.9533
bis(2-Chloroisopropyl)ether	50.0	726078.000	1.991	3.00	47086.0000	1.747	15.0	232909.000	1.950
bis(2-Ethylhexyl)phthalate	50.0	1213820.00	0.8658	3.00	66391.0000	0.6528	15.0	383501.000	0.8565

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-05			WG251791-06			WG251791-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	25.0	147066.000	0.3388	80.0	525172.000	0.3467	100	610620.000	0.3373
2,4-Dichlorophenol	25.0	200977.000	0.2686	80.0	691819.000	0.2705	100	820805.000	0.2662
2-Nitrophenol	25.0	124084.000	0.1658	80.0	443635.000	0.1734	100	526917.000	0.1709
4-Chloro-3-Methylphenol	25.0	213038.000	0.2847	80.0	722610.000	0.2825	100	857476.000	0.2781
Acenaphthene	25.0	486874.000	1.122	80.0	1575898.00	1.040	100	1815316.00	1.003
Benzo[a]pyrene	25.0	767453.000	1.209	80.0	2823412.00	1.222	100	3278460.00	1.199
Di-n-Octyl Phthalate	25.0	994406.000	1.566	80.0	3565179.00	1.543	100	4179279.00	1.528
Fluoranthene	25.0	874980.000	1.268	80.0	2846591.00	1.163	100	3237613.00	1.118
Hexachlorobutadiene	25.0	130485.000	0.1744	80.0	436774.000	0.1708	100	509408.000	0.1652
Pentachlorophenol	25.0	70351.0000	0.1019	80.0	323323.000	0.1321	100	386472.000	0.1334
Phenol	25.0	298564.000	1.569	80.0	986570.000	1.548	100	1174586.00	1.525
n-Nitrosodiphenylamine	25.0	498294.000	0.7220	80.0	1631460.00	0.6664	100	1870978.00	0.6459
2,4-Dinitrophenol	25.0	27153.0000	0.06260	80.0	158235.000	0.1045	100	209083.000	0.1155
4-Nitrophenol	25.0	94747.0000	0.2183	80.0	370853.000	0.2448	100	464617.000	0.2567
Hexachlorocyclopentadiene	25.0	114741.000	0.2644	80.0	442236.000	0.2919	100	508869.000	0.2811
n-Nitrosodipropylamine	25.0	162970.000	0.8562	80.0	519220.000	0.8147	100	613899.000	0.7969
2,4,5-Trichlorophenol	25.0	160143.000	0.3690	80.0	562444.000	0.3713	100	660870.000	0.3651
2,4-Dimethylphenol	25.0	218197.000	0.2916	80.0	711683.000	0.2782	100	838144.000	0.2719
2,4-Dinitrotoluene	25.0	155218.000	0.3576	80.0	537714.000	0.3550	100	621568.000	0.3434
2,6-Dinitrotoluene	25.0	131342.000	0.3026	80.0	473205.000	0.3124	100	562245.000	0.3106
2-Chloronaphthalene	25.0	561943.000	1.295	80.0	1835804.00	1.212	100	2129117.00	1.176
2-Chlorophenol	25.0	242303.000	1.273	80.0	819661.000	1.286	100	975645.000	1.266
2-Methylnaphthalene	25.0	496744.000	0.6639	80.0	1618037.00	0.6326	100	1881873.00	0.6104
2-Methylphenol	25.0	193507.000	1.017	80.0	655280.000	1.028	100	785294.000	1.019
2-Nitroaniline	25.0	137175.000	0.3160	80.0	490975.000	0.3241	100	598032.000	0.3304
3,3'-Dichlorobenzidine	25.0	304651.000	0.4309	80.0	1047483.00	0.4167	100	1196765.00	0.4048
3-,4-Methylphenol	25.0	255301.000	1.341	80.0	863815.000	1.355	100	1034933.00	1.343
3-Nitroaniline	25.0	135736.000	0.3127	80.0	498568.000	0.3291	100	596028.000	0.3293
4,6-Dinitro-2-Methylphenol	25.0	62802.0000	0.09100	80.0	314596.000	0.1285	100	394847.000	0.1363
4-Bromophenyl Phenyl Ether	25.0	159720.000	0.2314	80.0	541213.000	0.2211	100	625440.000	0.2159
4-Chloroaniline	25.0	308891.000	0.4128	80.0	1045556.00	0.4088	100	1243137.00	0.4032
4-Chlorophenyl Phenyl Ether	25.0	281672.000	0.6490	80.0	875440.000	0.5779	100	979971.000	0.5414
4-Nitroaniline	25.0	146466.000	0.3374	80.0	504398.000	0.3330	100	591449.000	0.3267
Acenaphthylene	25.0	789956.000	1.820	80.0	2587927.00	1.709	100	3011265.00	1.664
Anthracene	25.0	850138.000	1.232	80.0	2774294.00	1.133	100	3184131.00	1.099
Benzo[a]anthracene	25.0	885770.000	1.253	80.0	3022827.00	1.203	100	3427980.00	1.159
Benzo[b]fluoranthene	25.0	841723.000	1.326	80.0	2862911.00	1.239	100	3254997.00	1.190
Benzo[ghi]perylene	25.0	679161.000	1.070	80.0	2605676.00	1.127	100	3074871.00	1.124
Benzo[k]fluoranthene	25.0	782029.000	1.232	80.0	2997448.00	1.297	100	3102380.00	1.135
Butyl Benzyl Phthalate	25.0	426058.000	0.6027	80.0	1214313.00	0.4831	100	1351782.00	0.4572
Carbazole	25.0	775144.000	1.123	80.0	2568732.00	1.049	100	2942441.00	1.016
Chrysene	25.0	861271.000	1.218	80.0	2884143.00	1.147	100	3287260.00	1.112

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-05			WG251791-06			WG251791-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	25.0	1000902.00	1.450	80.0	3264702.00	1.334	100	3809349.00	1.315
Dibenz[ah]anthracene	25.0	687126.000	1.082	80.0	2562385.00	1.109	100	2981631.00	1.090
Dibenzofuran	25.0	688523.000	1.586	80.0	2131293.00	1.407	100	2406441.00	1.329
Diethylphthalate	25.0	576677.000	1.329	80.0	1911967.00	1.262	100	2243031.00	1.239
Dimethylphthalate	25.0	569323.000	1.312	80.0	1907796.00	1.260	100	2218259.00	1.225
Fluorene	25.0	571845.000	1.318	80.0	1819486.00	1.201	100	2087916.00	1.153
Hexachlorobenzene	25.0	158150.000	0.2291	80.0	541667.000	0.2213	100	615814.000	0.2126
Hexachloroethane	25.0	103170.000	0.5421	80.0	345931.000	0.5428	100	414539.000	0.5381
Indeno[1,2,3-cd]pyrene	25.0	807808.000	1.273	80.0	3011271.00	1.303	100	3505173.00	1.282
Isophorone	25.0	450903.000	0.6026	80.0	1514559.00	0.5922	100	1816182.00	0.5891
Naphthalene	25.0	741919.000	0.9915	80.0	2429704.00	0.9499	100	2856276.00	0.9265
Nitrobenzene	25.0	266101.000	0.3556	80.0	904691.000	0.3537	100	1083627.00	0.3515
Phenanthrene	25.0	844115.000	1.223	80.0	2727108.00	1.114	100	3127518.00	1.080
Pyrene	25.0	931160.000	1.317	80.0	2978131.00	1.185	100	3377889.00	1.143
bis(2-Chloroethoxy)methane	25.0	379671.000	0.5074	80.0	1181335.00	0.4619	100	1376043.00	0.4463
bis(2-Chloroethyl)ether	25.0	182026.000	0.9564	80.0	587857.000	0.9224	100	710746.000	0.9226
bis(2-Chloroisopropyl)ether	25.0	378182.000	1.987	80.0	1223525.00	1.920	100	1497202.00	1.943
bis(2-Ethylhexyl)phthalate	25.0	609557.000	0.8622	80.0	2067992.00	0.8227	100	2386687.00	0.8072

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-08		
	CONC	RESP	RF
2,4,6-Trichlorophenol	120	808010.000	0.3391
2,4-Dichlorophenol	120	1075245.00	0.2684
2-Nitrophenol	120	676621.000	0.1689
4-Chloro-3-Methylphenol	120	1088875.00	0.2718
Acenaphthene	120	2333052.00	0.9791
Benzo[a]pyrene	120	4471704.00	1.205
Di-n-Octyl Phthalate	120	5413738.00	1.459
Fluoranthene	120	4218041.00	1.098
Hexachlorobutadiene	120	666063.000	0.1663
Pentachlorophenol	120	530220.000	0.1380
Phenol	120	1463888.00	1.486
n-Nitrosodiphenylamine	120	2410823.00	0.6273
2,4-Dinitrophenol	120	297713.000	0.1249
4-Nitrophenol	120	582595.000	0.2445
Hexachlorocyclopentadiene	120	682068.000	0.2862
n-Nitrosodipropylamine	120	749433.000	0.7608
2,4,5-Trichlorophenol	120	868045.000	0.3643
2,4-Dimethylphenol	120	1056503.00	0.2638
2,4-Dinitrotoluene	120	789530.000	0.3313
2,6-Dinitrotoluene	120	732521.000	0.3074
2-Chloronaphthalene	120	2758937.00	1.158
2-Chlorophenol	120	1250739.00	1.270
2-Methylnaphthalene	120	2427896.00	0.6061
2-Methylphenol	120	1000883.00	1.016
2-Nitroaniline	120	742078.000	0.3114
3,3'-Dichlorobenzidine	120	1587670.00	0.4005
3-,4-Methylphenol	120	1313156.00	1.333
3-Nitroaniline	120	773488.000	0.3246
4,6-Dinitro-2-Methylphenol	120	540329.000	0.1406
4-Bromophenyl Phenyl Ether	120	829974.000	0.2159
4-Chloroaniline	120	1591498.00	0.3973
4-Chlorophenyl Phenyl Ether	120	1238076.00	0.5196
4-Nitroaniline	120	762399.000	0.3200
Acenaphthylene	120	3872587.00	1.625
Anthracene	120	4107781.00	1.069
Benzo[a]anthracene	120	4545426.00	1.147
Benzo[b]fluoranthene	120	4534941.00	1.222
Benzo[ghi]perylene	120	4217949.00	1.136
Benzo[k]fluoranthene	120	4486390.00	1.209
Butyl Benzyl Phthalate	120	1639188.00	0.4135
Carbazole	120	3801291.00	0.9890
Chrysene	120	4363037.00	1.101

KEMRON Environmental Services

INITIAL CALIBRATION DATA

Login Number: L0709626 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 03-OCT-07 12:22

Column ID: F

Analyte	WG251791-08		
	CONC	RESP	RF
Di-n-Butyl Phthalate	120	4802123.00	1.249
Dibenz[ah]anthracene	120	4067273.00	1.096
Dibenzofuran	120	3068259.00	1.288
Diethylphthalate	120	2878030.00	1.208
Dimethylphthalate	120	2870199.00	1.205
Fluorene	120	2719195.00	1.141
Hexachlorobenzene	120	831035.000	0.2162
Hexachloroethane	120	516800.000	0.5246
Indeno[1,2,3-cd]pyrene	120	4811870.00	1.296
Isophorone	120	2268393.00	0.5663
Naphthalene	120	3647740.00	0.9107
Nitrobenzene	120	1344785.00	0.3357
Phenanthrene	120	4031693.00	1.049
Pyrene	120	4422140.00	1.116
bis(2-Chloroethoxy)methane	120	1697825.00	0.4239
bis(2-Chloroethyl)ether	120	870148.000	0.8833
bis(2-Chloroisopropyl)ether	120	1795867.00	1.823
bis(2-Ethylhexyl)phthalate	120	3055783.00	0.7708

KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 09/24/2007 Sample ID: WG250777-10
Instrument ID: HPMS4 Run Time: 14:44 Method: 8270C
File ID: 4M39407 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG250777 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50300	ug/L	0.374	0.600	25	
2,4-Dichlorophenol	CCC	50000	49900	ug/L	0.287	0.200	25	
2-Nitrophenol	CCC	50000	54400	ug/L	0.195	8.90	25	
Benzo[a]pyrene	CCC	50000	53400	ug/L	1.40	6.70	25	
Di-n-Octyl Phthalate	CCC	50000	54300	ug/L	1.83	8.60	25	
Fluoranthene	CCC	50000	52800	ug/L	1.41	5.50	25	
Hexachlorobutadiene	CCC	50000	51900	ug/L	0.193	3.70	25	
Pentachlorophenol	CCC	50000	58400	ug/L	0.159	16.8	25	
Phenol	CCC	50000	50300	ug/L	1.75	0.500	25	
2,4-Dinitrophenol	SPCC	50000	56900	ug/L	0.0756	13.8	25	
4-Nitrophenol	SPCC	50000	47800	ug/L	0.243	4.30	25	
Hexachlorocyclopentadiene	SPCC	50000	52800	ug/L	0.282	5.60	25	
2,4,5-Trichlorophenol		50000	50100	ug/L	0.408	0.100	25	
2,4-Dinitrotoluene		50000	60100	ug/L	0.410	20.3	25	
2,6-Dinitrotoluene		50000	52200	ug/L	0.341	4.40	25	
2-Chloronaphthalene		50000	42800	ug/L	1.22	14.5	25	
2-Chlorophenol		50000	48500	ug/L	1.39	3.00	25	
2-Methylnaphthalene		50000	51100	ug/L	0.734	2.20	25	
3,3'-Dichlorobenzidine		50000	43900	ug/L	0.369	12.3	25	
4,6-Dinitro-2-Methylphenol		50000	52500	ug/L	0.107	5.00	25	
4-Chloroaniline		50000	52200	ug/L	0.443	4.50	25	
4-Chlorophenyl Phenyl Ether		50000	46000	ug/L	0.645	8.00	25	
Anthracene		50000	52800	ug/L	1.38	5.60	25	
Benzo[a]anthracene		50000	52800	ug/L	1.38	5.60	25	
Benzo[b]fluoranthene		50000	49500	ug/L	1.42	1.00	25	
Benzo[k]fluoranthene		50000	51200	ug/L	1.35	2.30	25	
bis(2-Chloroethoxy)methane		50000	40600	ug/L	0.425	18.7	25	
bis(2-Chloroisopropyl)ether		50000	51000	ug/L	2.22	2.00	25	
bis(2-Ethylhexyl)phthalate		50000	53600	ug/L	0.974	7.20	25	
Butyl Benzyl Phthalate		50000	58700	ug/L	0.674	17.5	25	
Carbazole		50000	52700	ug/L	1.26	5.30	25	
Chrysene		50000	52600	ug/L	1.36	5.20	25	
Dibenz[ah]anthracene		50000	51700	ug/L	1.19	3.40	25	
Dibenzofuran		50000	48300	ug/L	1.70	3.40	25	
Hexachlorobenzene		50000	49300	ug/L	0.242	1.30	25	
Hexachloroethane		50000	51200	ug/L	0.610	2.30	25	
Isophorone		50000	57300	ug/L	0.755	14.7	25	
Naphthalene		50000	51500	ug/L	1.10	3.00	25	
Nitrobenzene		50000	53400	ug/L	0.388	6.70	25	
Phenanthrene		50000	50600	ug/L	1.31	1.20	25	
Pyrene		50000	53400	ug/L	1.46	6.80	25	

* Exceeds %D Limit

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 09/24/2007 Sample ID: WG250777-11
Instrument ID: HPMS4 Run Time: 14:09 Method: 8270C
File ID: 4M39406 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG250777 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
3,3'-Dichlorobenzidine		50000	50000	ug/L	0.420	0.100	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251791-09
Instrument ID: HPMS4 Run Time: 13:09 Method: 8270C
File ID: 4M39552 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG251791 Cal ID: HPMS4 - 03-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	57800	ug/L	0.390	15.6	25	
2,4-Dichlorophenol	CCC	50000	56200	ug/L	0.300	12.4	25	
2-Nitrophenol	CCC	50000	61100	ug/L	0.196	22.2	25	
Benzo[a]pyrene	CCC	50000	58400	ug/L	1.40	16.9	25	
Di-n-Octyl Phthalate	CCC	50000	53900	ug/L	1.58	7.80	25	
Fluoranthene	CCC	50000	59400	ug/L	1.45	18.8	25	
Hexachlorobutadiene	CCC	50000	60000	ug/L	0.209	19.9	25	
Pentachlorophenol	CCC	50000	69200	ug/L	0.181	38.4	25	*
Phenol	CCC	50000	53100	ug/L	1.63	6.20	25	
2,4-Dinitrophenol	SPCC	50000	65700	ug/L	0.140	31.3	25	*
4-Nitrophenol	SPCC	50000	50700	ug/L	0.242	1.30	25	
Hexachlorocyclopentadiene	SPCC	50000	57600	ug/L	0.327	15.2	25	
2,4,5-Trichlorophenol		50000	58900	ug/L	0.428	17.8	25	
2,4-Dinitrotoluene		50000	61600	ug/L	0.425	23.3	25	
2,6-Dinitrotoluene		50000	58700	ug/L	0.349	17.4	25	
2-Chloronaphthalene		50000	47700	ug/L	1.21	4.60	25	
2-Chlorophenol		50000	53500	ug/L	1.35	6.90	25	
2-Methylnaphthalene		50000	56900	ug/L	0.741	13.9	25	
3,3'-Dichlorobenzidine		50000	53100	ug/L	0.443	6.30	25	
4,6-Dinitro-2-Methylphenol		50000	60800	ug/L	0.156	21.5	25	
4-Chloroaniline		50000	56100	ug/L	0.455	12.2	25	
4-Chlorophenyl Phenyl Ether		50000	54900	ug/L	0.683	9.90	25	
Anthracene		50000	57300	ug/L	1.36	14.6	25	
Benzo[a]anthracene		50000	55800	ug/L	1.37	11.6	25	
Benzo[b]fluoranthene		50000	54300	ug/L	1.43	8.60	25	
Benzo[k]fluoranthene		50000	54000	ug/L	1.33	8.00	25	
bis(2-Chloroethoxy)methane		50000	41200	ug/L	0.392	17.6	25	
bis(2-Chloroisopropyl)ether		50000	47300	ug/L	1.81	5.40	25	
bis(2-Ethylhexyl)phthalate		50000	53100	ug/L	0.855	6.10	25	
Butyl Benzyl Phthalate		50000	53500	ug/L	0.581	6.90	25	
Carbazole		50000	57400	ug/L	1.24	14.8	25	
Chrysene		50000	55700	ug/L	1.33	11.5	25	
Dibenz[ah]anthracene		50000	56600	ug/L	1.22	13.2	25	
Dibenzofuran		50000	56200	ug/L	1.70	12.4	25	
Hexachlorobenzene		50000	57000	ug/L	0.260	14.0	25	
Hexachloroethane		50000	52900	ug/L	0.562	5.80	25	
Isophorone		50000	58200	ug/L	0.680	16.5	25	
Naphthalene		50000	55200	ug/L	1.08	10.4	25	
Nitrobenzene		50000	52100	ug/L	0.359	4.10	25	
Phenanthrene		50000	55400	ug/L	1.30	10.8	25	
Pyrene		50000	56100	ug/L	1.41	12.3	25	

* Exceeds %D Limit

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KEMRON Environmental Services

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251791-10
Instrument ID: HPMS4 Run Time: 13:42 Method: 8270C
File ID: 4M39553 Analyst: CAA QC Key: DOWWV2006
ICal Workgroup: WG251791 Cal ID: HPMS4 - 03-OCT-07

Analyte		Expected	Found	Units	RF	%D	UCL	Q
3,3'-Dichlorobenzidine		50000	51900	ug/L	0.433	3.70	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251307-02
Instrument ID: HPMS4 Run Time: 08:23 Method: 8270C
File ID: 4M39464 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251394 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50700	ug/L	0.377	1.48	20	
2,4-Dichlorophenol	CCC	50000	50900	ug/L	0.293	1.78	20	
2-Nitrophenol	CCC	50000	51300	ug/L	0.184	2.63	20	
4-Chloro-3-Methylphenol	CCC	50000	51000	ug/L	0.318	2.01	20	
Acenaphthene	CCC	50000	49100	ug/L	1.17	1.84	20	
Benzo[a]pyrene	CCC	50000	49800	ug/L	1.30	0.460	20	
Di-n-Octyl Phthalate	CCC	50000	52500	ug/L	1.76	4.92	20	
Fluoranthene	CCC	50000	49000	ug/L	1.31	1.99	20	
Hexachlorobutadiene	CCC	50000	50000	ug/L	0.186	0.0506	20	
n-Nitrosodiphenylamine	CCC	50000	49500	ug/L	0.758	0.973	20	
Pentachlorophenol	CCC	50000	49400	ug/L	0.132	1.12	20	
Phenol	CCC	50000	49500	ug/L	1.72	0.997	20	
1,4-Dichlorobenzene	CCC	50000	49700	ug/L	1.69	0.565	25	
2,4-Dinitrophenol	SPCC	50000	57100	ug/L	0.0759	14.2	25	
4-Nitrophenol	SPCC	50000	48000	ug/L	0.244	4.08	25	
Hexachlorocyclopentadiene	SPCC	50000	50200	ug/L	0.269	0.312	25	
n-Nitrosodipropylamine	SPCC	50000	50000	ug/L	0.890	0.0808	25	
2,4,5-Trichlorophenol		50000	49800	ug/L	0.406	0.439	25	
2,4-Dimethylphenol		50000	51000	ug/L	0.314	1.98	25	
2,4-Dinitrotoluene		50000	54700	ug/L	0.372	9.35	25	
2,6-Dinitrotoluene		50000	49000	ug/L	0.320	1.93	25	
2-Chloronaphthalene		50000	47900	ug/L	1.36	4.26	25	
2-Chlorophenol		50000	49200	ug/L	1.41	1.63	25	
2-Methylnaphthalene		50000	50200	ug/L	0.721	0.421	25	
2-Methylphenol		50000	49100	ug/L	1.14	1.82	25	
2-Nitroaniline		50000	50000	ug/L	0.352	0.0600	25	
3,3'-Dichlorobenzidine		50000	51500	ug/L	0.432	2.91	25	
3-,4-Methylphenol		50000	49200	ug/L	1.49	1.51	25	
3-Nitroaniline		50000	50100	ug/L	0.325	0.250	25	
4,6-Dinitro-2-Methylphenol		50000	51800	ug/L	0.105	3.69	25	
4-Bromophenyl Phenyl Ether		50000	48500	ug/L	0.243	3.04	25	
4-Chloroaniline		50000	51800	ug/L	0.439	3.65	25	
4-Chlorophenyl Phenyl Ether		50000	49100	ug/L	0.682	1.71	25	
4-Nitroaniline		50000	49300	ug/L	0.341	1.36	25	
Acenaphthylene		50000	48800	ug/L	1.93	2.48	25	
Anthracene		50000	49800	ug/L	1.30	0.315	25	
Benzo[a]anthracene		50000	50500	ug/L	1.32	0.967	25	
Benzo[b]fluoranthene		50000	50200	ug/L	1.44	0.459	25	
Benzo[ghi]perylene		50000	52000	ug/L	1.21	3.96	25	
Benzo[k]fluoranthene		50000	52500	ug/L	1.39	5.09	25	
bis(2-Chloroethoxy)methane		50000	51000	ug/L	0.534	2.05	25	
bis(2-Chloroethyl)ether		50000	48800	ug/L	1.03	2.31	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251307-02
Instrument ID: HPMS4 Run Time: 08:23 Method: 8270C
File ID: 4M39464 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251394 Cal ID: HPMS4 - 24-SEP-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	48900	ug/L	2.13	2.12	25	
bis(2-Ethylhexyl)phthalate		50000	52100	ug/L	0.945	4.13	25	
Butyl Benzyl Phthalate		50000	52100	ug/L	0.625	4.20	25	
Carbazole		50000	49600	ug/L	1.19	0.787	25	
Chrysene		50000	50100	ug/L	1.29	0.116	25	
Dibenz[ah]anthracene		50000	52900	ug/L	1.21	5.80	25	
Dibenzofuran		50000	47300	ug/L	1.66	5.34	25	
Diethylphthalate		50000	48000	ug/L	1.44	3.98	25	
Dimethylphthalate		50000	48100	ug/L	1.41	3.74	25	
Di-n-Butyl Phthalate		50000	49600	ug/L	1.54	0.743	25	
Fluorene		50000	48600	ug/L	1.38	2.81	25	
Hexachlorobenzene		50000	48800	ug/L	0.240	2.31	25	
Hexachloroethane		50000	50000	ug/L	0.596	0.0746	25	
Indeno[1,2,3-cd]pyrene		50000	52400	ug/L	1.41	4.84	25	
Isophorone		50000	50400	ug/L	0.664	0.798	25	
Naphthalene		50000	50000	ug/L	1.06	0.00440	25	
Nitrobenzene		50000	53200	ug/L	0.387	6.37	25	
Phenanthrene		50000	48800	ug/L	1.26	2.40	25	
Pyrene		50000	50000	ug/L	1.36	0.0820	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/06/2007 Sample ID: WG252131-02
Instrument ID: HPMS4 Run Time: 13:32 Method: 8270C
File ID: 4M39635 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251394 Cal ID: HPMS4 - 03-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52300	ug/L	0.353	4.61	20	
2,4-Dichlorophenol	CCC	50000	51200	ug/L	0.273	2.42	20	
2-Nitrophenol	CCC	50000	55800	ug/L	0.179	11.6	20	
4-Chloro-3-Methylphenol	CCC	50000	51800	ug/L	0.286	3.64	20	
Acenaphthene	CCC	50000	50800	ug/L	1.10	1.58	20	
Benzo[a]pyrene	CCC	50000	51700	ug/L	1.24	3.35	20	
Di-n-Octyl Phthalate	CCC	50000	55300	ug/L	1.62	10.6	20	
Fluoranthene	CCC	50000	50200	ug/L	1.22	0.489	20	
Hexachlorobutadiene	CCC	50000	49900	ug/L	0.174	0.134	20	
n-Nitrosodiphenylamine	CCC	50000	50700	ug/L	0.704	1.50	20	
Pentachlorophenol	CCC	50000	48500	ug/L	0.121	3.03	20	
Phenol	CCC	50000	50900	ug/L	1.56	1.81	20	
1,4-Dichlorobenzene	CCC	50000	50400	ug/L	1.55	0.717	25	
2,4-Dinitrophenol	SPCC	50000	47900	ug/L	0.0915	4.25	25	
4-Nitrophenol	SPCC	50000	48500	ug/L	0.231	2.98	25	
Hexachlorocyclopentadiene	SPCC	50000	51900	ug/L	0.295	3.90	25	
n-Nitrosodipropylamine	SPCC	50000	51400	ug/L	0.839	2.83	25	
2,4,5-Trichlorophenol		50000	51900	ug/L	0.377	3.72	25	
2,4-Dimethylphenol		50000	51600	ug/L	0.291	3.20	25	
2,4-Dinitrotoluene		50000	54900	ug/L	0.379	9.76	25	
2,6-Dinitrotoluene		50000	53700	ug/L	0.319	7.40	25	
2-Chloronaphthalene		50000	50500	ug/L	1.28	0.910	25	
2-Chlorophenol		50000	51100	ug/L	1.29	2.26	25	
2-Methylnaphthalene		50000	50500	ug/L	0.657	0.988	25	
2-Methylphenol		50000	51400	ug/L	1.04	2.85	25	
2-Nitroaniline		50000	52200	ug/L	0.332	4.49	25	
3,3'-Dichlorobenzidine		50000	52200	ug/L	0.436	4.46	25	
3-,4-Methylphenol		50000	51000	ug/L	1.36	1.95	25	
3-Nitroaniline		50000	50800	ug/L	0.328	1.61	25	
4,6-Dinitro-2-Methylphenol		50000	48200	ug/L	0.119	3.65	25	
4-Bromophenyl Phenyl Ether		50000	49600	ug/L	0.227	0.732	25	
4-Chloroaniline		50000	50800	ug/L	0.412	1.60	25	
4-Chlorophenyl Phenyl Ether		50000	50500	ug/L	0.628	1.01	25	
4-Nitroaniline		50000	50200	ug/L	0.336	0.485	25	
Acenaphthylene		50000	50800	ug/L	1.79	1.67	25	
Anthracene		50000	50400	ug/L	1.19	0.813	25	
Benzo[a]anthracene		50000	50300	ug/L	1.24	0.589	25	
Benzo[b]fluoranthene		50000	50200	ug/L	1.32	0.325	25	
Benzo[ghi]perylene		50000	52000	ug/L	1.13	3.99	25	
Benzo[k]fluoranthene		50000	53600	ug/L	1.32	7.14	25	
bis(2-Chloroethoxy)methane		50000	51100	ug/L	0.486	2.17	25	
bis(2-Chloroethyl)ether		50000	51500	ug/L	0.952	3.02	25	

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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/06/2007 Sample ID: WG252131-02
Instrument ID: HPMS4 Run Time: 13:32 Method: 8270C
File ID: 4M39635 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG251394 Cal ID: HPMS4 - 03-OCT-07

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	52500	ug/L	2.01	5.05	25	
bis(2-Ethylhexyl)phthalate		50000	53800	ug/L	0.866	7.56	25	
Butyl Benzyl Phthalate		50000	50000	ug/L	0.550	0.0594	25	
Carbazole		50000	51100	ug/L	1.10	2.21	25	
Chrysene		50000	50400	ug/L	1.20	0.711	25	
Dibenz[ah]anthracene		50000	52200	ug/L	1.12	4.34	25	
Dibenzofuran		50000	50700	ug/L	1.53	1.36	25	
Diethylphthalate		50000	50200	ug/L	1.30	0.465	25	
Dimethylphthalate		50000	50100	ug/L	1.30	0.242	25	
Di-n-Butyl Phthalate		50000	51700	ug/L	1.41	3.46	25	
Fluorene		50000	50400	ug/L	1.28	0.701	25	
Hexachlorobenzene		50000	49800	ug/L	0.227	0.445	25	
Hexachloroethane		50000	51000	ug/L	0.541	1.90	25	
Indeno[1,2,3-cd]pyrene		50000	52000	ug/L	1.31	3.97	25	
Isophorone		50000	52000	ug/L	0.608	4.02	25	
Naphthalene		50000	50400	ug/L	0.982	0.764	25	
Nitrobenzene		50000	52100	ug/L	0.359	4.23	25	
Phenanthrene		50000	50000	ug/L	1.18	0.00480	25	
Pyrene		50000	50800	ug/L	1.27	1.54	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 898040
Report generated 10/09/2007 11:36

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626 **ICAL CCV Number:** WG250777-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-24-SEP-07
Workgroup (AAB#): WG251394 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG250777-02	NA	NA	304970	714290	1183846	1244550	1093077	1149159
Upper Limit	NA	NA	609940	1428580	2367692	2489100	2186154	2298318
Lower Limit	NA	NA	152485	357145	591923	622275	546539	574580
WG251181-02	1.00	01	242171	554385	854638	972220	747281	863884
WG251181-03	1.00	01	250970	598162	967625	1140928	883169	948923

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON FORMS - Modified 04/18/2006
Version 1.3 PDF File ID: 898041
Report generated 10/09/2007 11:36

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626 **ICAL CCV Number:** WG251791-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-03-OCT-07
Workgroup (AAB#): WG251394 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG251791-02	NA	NA	291775	670203	1121601	1158231	1017714	1097409
Upper Limit	NA	NA	583550	1340406	2243202	2316462	2035428	2194818
Lower Limit	NA	NA	145888	335102	560801	579116	508857	548705
L0709626-01	1.00	01	300110	657774	1036724	1159826	936018	1027702
L0709626-02	1.00	01	311240	687265	1099604	1202841	990412	1089673
L0709626-03	5.00	DL01	368168	860859	1464338	1454811	1343663	1371480
L0709626-04	1.00	01	304045	661535	1047658	1163346	940415	1035154
L0709626-05	5.00	DL01	374508	833430	1412435	1433511	1299267	1278509
L0709626-06	5.00	DL01	331582	740706	1226241	1308442	1121362	1152195
L0709626-07	5.00	DL01	376523	856621	1488390	1493383	1383595	1325023

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626 **ICAL CCV Number:** WG250777-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-24-SEP-07
Workgroup (AAB#): WG251394 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG250777-02	NA	NA	9.29	13.01	17.49	10.9	20	14.62
Upper Limit	NA	NA	9.79	13.51	17.99	11.4	20.5	15.12
Lower Limit	NA	NA	8.79	12.51	16.99	10.4	19.5	14.12
WG251181-02	1.00	01	9.28	13	17.48	10.89	19.98	14.61
WG251181-03	1.00	01	9.29	13	17.49	10.89	19.99	14.61

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

KEMRON ENVIRONMENTAL SERVICES
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L0709626 **ICAL CCV Number:** WG251791-02
Instrument ID: HPMS4 **CAL ID:** HPMS4-03-OCT-07
Workgroup (AAB#): WG251394 **Matrix:** SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG251791-02	NA	NA	9.2	12.92	17.38	10.8	19.79	14.53
Upper Limit	NA	NA	9.7	13.42	17.88	11.3	20.29	15.03
Lower Limit	NA	NA	8.7	12.42	16.88	10.3	19.29	14.03
L0709626-01	1.00	01	9.2	12.92	17.37	10.8	19.79	14.52
L0709626-02	1.00	01	9.2	12.92	17.37	10.8	19.79	14.52
L0709626-03	5.00	DL01	9.2	12.92	17.37	10.8	19.79	14.52
L0709626-04	1.00	01	9.2	12.92	17.37	10.8	19.79	14.52
L0709626-05	5.00	DL01	9.2	12.92	17.37	10.8	19.79	14.53
L0709626-06	5.00	DL01	9.2	12.92	17.37	10.8	19.79	14.52
L0709626-07	5.00	DL01	9.19	12.92	17.37	10.8	19.79	14.53

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

2.3 Metals Data

2.3.1 Metals I C P Data

2.3.1.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709626

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6010

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.

MS/MSD: WG252094(6010) - Sample 05 was chosen by the client for MS/MSD analysis. Samples 06(MS) and 07(MSD) yielded % recoveries out of limits for four elements.

Serial Dilution/Post Digestion Spike: WG252094(6010) - 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: KHR

Approved: 10-OCT-07

LABORATORY REPORT

L0709626

10/17/07 08:16

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG. 706/707/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0082-SO-092107	L0709626-01	6010B	1	24-SEP-07
0083-SO-092107	L0709626-02	6010B	1	24-SEP-07
0084-SO-092107	L0709626-03	6010B	1	24-SEP-07
0085-SO-092107	L0709626-04	6010B	1	24-SEP-07
0086-SO-092107	L0709626-05	6010B	1	24-SEP-07
0086-SO-092107/MS	L0709626-06	6010B	1	24-SEP-07
0086-SO-092107/MSD	L0709626-07	6010B	1	24-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-01**	PrePrep Method:	**NONE**	Instrument:	**IRIS-ICP**
Client ID:	**0082-SO-092107**	Prep Method:	**3050B**	Prep Date:	**10/03/2007 07:00**
Matrix:	**Soil**	Analytical Method:	**6010B**	Cal Date:	**10/05/2007 10:00**
Workgroup Number:	**WG252094**	Analyst:	**KHR**	Run Date:	**10/05/2007 20:32**
Collect Date:	**09/21/2007 11:05**	Dilution:	**1**	File ID:	**IR.100507.203200**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**		**U**	**1.77**	**0.221**
Barium, Total	**7440-39-3**	**58.9**		**0.443**	**0.0886**
Cadmium, Total	**7440-43-9**		**U**	**0.443**	**0.0443**
Chromium, Total	**7440-47-3**	**18.4**		**0.886**	**0.106**
Lead, Total	**7439-92-1**	**17.8**		**4.43**	**0.443**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252094**
Collect Date: **09/21/2007 11:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **10/03/2007 07:00**
Cal Date: **10/05/2007 10:00**
Run Date: **10/05/2007 20:38**
File ID: **IR.100507.203800**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**		**U**	**1.68**	**0.210**
Barium, Total	**7440-39-3**	**79.7**		**0.421**	**0.0841**
Cadmium, Total	**7440-43-9**		**U**	**0.421**	**0.0421**
Chromium, Total	**7440-47-3**	**15.7**		**0.841**	**0.101**
Lead, Total	**7439-92-1**	**14.4**		**4.21**	**0.421**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252094**
Collect Date: **09/21/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **10/03/2007 07:00**
Cal Date: **10/05/2007 10:00**
Run Date: **10/05/2007 21:14**
File ID: **IR.100507.211400**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**	**1.77**		**1.67**	**0.209**
Barium, Total	**7440-39-3**	**201**		**0.419**	**0.0837**
Cadmium, Total	**7440-43-9**	**0.807**		**0.419**	**0.0419**
Chromium, Total	**7440-47-3**	**22.9**		**0.837**	**0.100**
Lead, Total	**7439-92-1**	**24.4**		**4.19**	**0.419**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	L0709626-04	PrePrep Method:	NONE	Instrument:	IRIS-ICP
Client ID:	0085-SO-092107	Prep Method:	3050B	Prep Date:	10/03/2007 07:00
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	10/05/2007 10:00
Workgroup Number:	WG252094	Analyst:	KHR	Run Date:	10/05/2007 21:20
Collect Date:	09/21/2007 14:10	Dilution:	1	File ID:	IR.100507.212000
Sample Tag:	01	Units:	mg/kg	Percent Solid:	90.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	7440-22-4		U	1.64	0.204
Barium, Total	7440-39-3	186		0.409	0.0818
Cadmium, Total	7440-43-9		U	0.409	0.0409
Chromium, Total	7440-47-3	19.8		0.818	0.0981
Lead, Total	7439-92-1	22.6		4.09	0.409

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-05**
Client ID: **0086-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG252094**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **10/03/2007 07:00**
Cal Date: **10/05/2007 10:00**
Run Date: **10/05/2007 20:13**
File ID: **IR.100507.201300**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**		**U**	**1.85**	**0.231**
Barium, Total	**7440-39-3**	**381**		**0.462**	**0.0924**
Cadmium, Total	**7440-43-9**		**U**	**0.462**	**0.0462**
Chromium, Total	**7440-47-3**	**10.3**		**0.924**	**0.111**
Lead, Total	**7439-92-1**	**15.8**		**4.62**	**0.462**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG252094**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **10/03/2007 07:00**
Cal Date: **10/05/2007 10:00**
Run Date: **10/05/2007 20:20**
File ID: **IR.100507.202000**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**	**9.38**		**1.85**	**0.231**
Barium, Total	**7440-39-3**	**376**		**0.462**	**0.0924**
Cadmium, Total	**7440-43-9**	**1.42**		**0.462**	**0.0462**
Chromium, Total	**7440-47-3**	**24.4**		**0.924**	**0.111**
Lead, Total	**7439-92-1**	**24.8**		**4.62**	**0.462**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG252094**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3050B**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/kg**

Instrument: **IRIS-ICP**
Prep Date: **10/03/2007 07:00**
Cal Date: **10/05/2007 10:00**
Run Date: **10/05/2007 20:26**
File ID: **IR.100507.202600**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Silver, Total	**7440-22-4**	**9.45**		**1.85**	**0.231**
Barium, Total	**7440-39-3**	**384**		**0.462**	**0.0924**
Cadmium, Total	**7440-43-9**	**1.49**		**0.462**	**0.0462**
Chromium, Total	**7440-47-3**	**20.9**		**0.924**	**0.111**
Lead, Total	**7439-92-1**	**24.3**		**4.62**	**0.462**

2.3.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

Example 6010 Calculations
Thermo Scientific IRIS Advantage

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

KEMRON
ENVIRONMENTAL SERVICES

Microwave Digestion Log

Analyst(s): VC
Date: 10/3/07 07:00
LCS: 5 M/S STD 22130
MS/MSD: 5 M/S STD 22130
Witness: [illegible]
HNO_3 Lot #: C0A 12526
HCl Lot #: C0A 12527
Digest Tube Lot #: C0A 12521
Earliest Sample Due Date: 10/8
Microwave # MW2

Box: 85 1283263
Digestion Work Group: WG 251827

ME407 Revision # ____ Method 3015-Water
ME406 Revision # 8 Method 3051-Soil-Oil

Relinquished By: VC
Digest Received By: [illegible] Date: 10/3/07

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBS	1.00 gr	50 mL	178.27 gr	178.18 gr	02	
2	LCS	1.00		183.74	183.55	03	
3	09-626-01 *	1.38		179.44	178.84		10/8
4	02 17	1.35		179.89	179.50		
5	03	1.35		178.69	178.53		
6	04	1.35		178.57	178.43		
7	05 [illegible]	1.35		176.86	176.38	01	
8	06 MSD	1.35		184.84	184.55	04	
9	07 MSD	1.35		182.80	182.77	05	
10	10-011-01 *	1.36		179.30	179.19		10/8
11	02	1.35		179.93	179.75		
12	03	1.36		179.72	179.72		
13	04	1.35		179.11	178.96		
14	05	1.35		179.70	179.20		
15	06	1.36		179.68	179.65		
16	07	1.36		179.62	179.49		
17	08	1.35		177.42	176.97		
18	09	1.35		176.98	176.81		
19	10	1.36		179.21	179.20		
20	11	1.37		178.59	177.93		
21	12	1.35		178.38	178.33		
22							
23							
24							
25							
26							
27							
28							
29							
30							

VC 10/3/07

Comments: * level 4

Primary Review: [illegible] 10/3/07 Secondary Review: [illegible] 10/3/07

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071005.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21146

Calibration Std: STD21940 ICV/CCV Std: STD22251 Post Spike: STD22130
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251962,251981,251982,251983,251420,252095,252097,252094

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	IR.100507.092900	WG252105-01	Calibration Point		1		10/05/07 09:29
2	IR.100507.093500	WG252105-02	Calibration Point		1		10/05/07 09:35
3	IR.100507.094200	WG252105-03	Calibration Point		1		10/05/07 09:42
4	IR.100507.094800	WG252105-04	Calibration Point		1		10/05/07 09:48
5	IR.100507.095400	WG252105-05	Calibration Point		1		10/05/07 09:54
6	IR.100507.100000	WG252105-06	Calibration Point		1		10/05/07 10:00
7	IR.100507.100700	WG252105-07	Initial Calibration Verification		1		10/05/07 10:07
8	IR.100507.101300	WG252105-08	Initial Calib Blank		1		10/05/07 10:13
9	IR.100507.101900	WG252105-09	Interference Check		1		10/05/07 10:19
10	IR.100507.102500	WG252105-10	Interference Check		1		10/05/07 10:25
11	IR.100507.103100	WG252105-11	CCV		1		10/05/07 10:31
12	IR.100507.103700	WG252105-12	CCB		1		10/05/07 10:37
13	IR.100507.104300	L0709668-07	NR-12-110-35	1.03/50	50		10/05/07 10:43
14	IR.100507.105000	L0709668-41	NR-12-110-165DUP	1.4/50	1		10/05/07 10:50
15	IR.100507.105600	WG251981-01	Post Digestion Spike		1	L0709668-41	10/05/07 10:56
16	IR.100507.110200	L0710017-02	SO548A SAND/SAND	1.36/50	10		10/05/07 11:02
17	IR.100507.110800	L0710017-03	SO548B DUST	1.34/50	10		10/05/07 11:08
18	IR.100507.111400	L0710051-01	AV-NCB-FF-21-C-092807	1.36/50	2		10/05/07 11:14
19	IR.100507.112000	L0710051-02	AV-NCB-FF-22-C-092807	1.36/50	2		10/05/07 11:20
20	IR.100507.112600	L0710051-13	AV-NCB-FF-30-C-092807	1.48/50	2		10/05/07 11:26
21	IR.100507.113200	L0710051-14	AV-NCB-FF-31-C-092807	1.3/50	2		10/05/07 11:32
22	IR.100507.113800	L0710051-16	AV-NCB-FF-33-C-092807	1.31/50	2		10/05/07 11:38
23	IR.100507.114400	WG252105-13	CCV		1		10/05/07 11:44
24	IR.100507.115000	WG252105-14	CCB		1		10/05/07 11:50
25	IR.100507.115600	WG251825-01	Reference Sample		10	L0709111-05	10/05/07 11:56
26	IR.100507.120200	WG251825-04	Matrix Spike	1.35/50	10	L0709111-06	10/05/07 12:02
27	IR.100507.120800	WG251825-05	Matrix Spike Duplica	1.35/50	10	L0709111-07	10/05/07 12:08
28	IR.100507.121400	L0709111-15	BGA062	1.35/50	10		10/05/07 12:14
29	IR.100507.122100	L0709111-17	BGA065	1.35/50	10		10/05/07 12:21
30	IR.100507.122700	L0709111-19	BGA092	1.36/50	10		10/05/07 12:27
31	IR.100507.123300	L0709111-22	BGA095	1.35/50	10		10/05/07 12:33
32	IR.100507.123900	L0710017-05	SO548D PAINT/R/TOP	.29/50	1		10/05/07 12:39
33	IR.100507.124500	WG251983-01	Post Digestion Spike		1	L0710017-05	10/05/07 12:45
34	IR.100507.125100	WG252105-15	CCV		1		10/05/07 12:51
35	IR.100507.125700	WG252105-16	CCB		1		10/05/07 12:57
36	IR.100507.133300	L0709574-01	D-193-SE001(4.0-4.5)	1.3/50	1		10/05/07 13:33
37	IR.100507.133900	L0709574-02	D-193-SE002(4.0-4.5)	1.44/50	1		10/05/07 13:39

Approved: October 08, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071005.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21146

Calibration Std: STD21940 ICV/CCV Std: STD22251 Post Spike: STD22130
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251962,251981,251982,251983,251420,252095,252097,252094

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	IR.100507.134500	L0709574-03	D-193-SE003(4.0-4.5)	1.4/50	1		10/05/07 13:45
39	IR.100507.135100	L0709574-04	D-193-SE004(4.0-4.5)	1.35/50	1		10/05/07 13:51
40	IR.100507.135700	WG251420-01	Post Digestion Spike		1	L0709574-04	10/05/07 13:57
41	IR.100507.140400	WG251420-02	Serial Dilution		5	L0709574-04	10/05/07 14:04
42	IR.100507.141000	L0709574-05	D-193-SE005(4.0-4.5)	1.37/50	1		10/05/07 14:10
43	IR.100507.141600	L0709574-06	D-193-SE006(4.0-4.5)	1.41/50	1		10/05/07 14:16
44	IR.100507.142200	L0709574-07	D-193-SE007(6.5-7.0)	1.39/50	1		10/05/07 14:22
45	IR.100507.142800	L0709574-08	D-193-SE008(6.5-7.0)	1.32/50	1		10/05/07 14:28
46	IR.100507.143400	WG252105-17	CCV		1		10/05/07 14:34
47	IR.100507.144000	WG252105-18	CCB		1		10/05/07 14:40
48	IR.100507.144600	L0709574-09	D-193-SE009(6.5-7.0)	1.42/50	1		10/05/07 14:46
49	IR.100507.145200	L0709574-10	D-193-SE010(6.5-7.0)	1.49/50	1		10/05/07 14:52
50	IR.100507.145800	WG252105-19	CCV		1		10/05/07 14:58
51	IR.100507.150400	WG252105-20	CCB		1		10/05/07 15:04
52	IR.100507.152100	L0709111-18	BGA091	1.35/50	10		10/05/07 15:21
53	IR.100507.152700	WG252105-21	CCV		1		10/05/07 15:27
54	IR.100507.153300	WG252105-22	CCB		1		10/05/07 15:33
55	IR.100507.161500	WG251943-02	Method/Prep Blank	1/50	1		10/05/07 16:15
56	IR.100507.162100	WG251943-03	Laboratory Control Sample	1/50	1		10/05/07 16:21
57	IR.100507.162700	WG251943-01	Reference Sample		1	L0709298-17	10/05/07 16:27
58	IR.100507.163300	WG251943-04	Matrix Spike	1.35/50	1	L0709298-18	10/05/07 16:33
59	IR.100507.163900	WG251943-05	Matrix Spike Duplicate	1.35/50	1	L0709298-19	10/05/07 16:39
60	IR.100507.164500	L0710064-01	XX8608	1.35/50	1		10/05/07 16:45
61	IR.100507.165100	L0710066-01	XX8609	1.35/50	1		10/05/07 16:51
62	IR.100507.165800	L0709298-16	BGA105	1.35/50	1		10/05/07 16:58
63	IR.100507.170400	WG252095-01	Post Digestion Spike		1		10/05/07 17:04
64	IR.100507.171000	WG252095-02	Serial Dilution		5		10/05/07 17:10
65	IR.100507.171600	WG252105-23	CCV		1		10/05/07 17:16
66	IR.100507.172200	WG252105-24	CCB		1		10/05/07 17:22
67	IR.100507.172800	WG252095-02	Serial Dilution		25		10/05/07 17:28
68	IR.100507.173400	WG251681-02	Method/Prep Blank	50/50	1		10/05/07 17:34
69	IR.100507.174000	WG251681-03	Laboratory Control Sample	50/50	1		10/05/07 17:40
70	IR.100507.174600	WG251568-01	Fluid Blank		1		10/05/07 17:46
71	IR.100507.175200	WG251681-01	Reference Sample		1	L0709675-02	10/05/07 17:52
72	IR.100507.175800	WG251681-04	Matrix Spike	5/50	1		10/05/07 17:58
73	IR.100507.180500	WG251681-05	Matrix Spike Duplicate	5/50	1		10/05/07 18:05
74	IR.100507.181100	L0709676-01	S0709260-01A/GC070052	5/50	1		10/05/07 18:11

Approved: October 08, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071005.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21146

Calibration Std: STD21940 ICV/CCV Std: STD22251 Post Spike: STD22130
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251962,251981,251982,251983,251420,252095,252097,252094

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	IR.100507.181700	WG252097-01	Post Digestion Spike		1		10/05/07 18:17
76	IR.100507.182300	WG252097-02	Serial Dilution		5		10/05/07 18:23
77	IR.100507.182900	WG252105-25	CCV		1		10/05/07 18:29
78	IR.100507.183500	WG252105-26	CCB		1		10/05/07 18:35
79	IR.100507.184100	L0709700-01	ADA-1	5/50	1		10/05/07 18:41
80	IR.100507.184700	L0709700-02	BRO-1	5/50	1		10/05/07 18:47
81	IR.100507.185300	L0709700-03	HIG-1	5/50	1		10/05/07 18:53
82	IR.100507.190000	L0709700-04	JAC-1	5/50	1		10/05/07 19:00
83	IR.100507.190600	L0709700-05	LAW-1	5/50	1		10/05/07 19:06
84	IR.100507.191200	L0709700-06	PIK-1	5/50	1		10/05/07 19:12
85	IR.100507.191800	L0709700-07	ROS-1	5/50	1		10/05/07 19:18
86	IR.100507.192400	L0709700-08	SCI-1	5/50	1		10/05/07 19:24
87	IR.100507.193000	L0709700-09	D09-1	5/50	1		10/05/07 19:30
88	IR.100507.193600	L0709707-01	OA PIPE RACK PAINT CHIP	5/50	1		10/05/07 19:36
89	IR.100507.194300	WG252105-27	CCV		1		10/05/07 19:43
90	IR.100507.194900	WG252105-28	CCB		1		10/05/07 19:49
91	IR.100507.195500	L0709675-01	S0709271-01A/GT07035	5/50	1		10/05/07 19:55
92	IR.100507.200100	WG251827-02	Method/Prep Blank	1/50	1		10/05/07 20:01
93	IR.100507.200700	WG251827-03	Laboratory Control Sample	1/50	1		10/05/07 20:07
94	IR.100507.201300	WG251827-01	Reference Sample		1	L0709626-05	10/05/07 20:13
95	IR.100507.202000	WG251827-04	Matrix Spike	1.35/50	1	L0709626-06	10/05/07 20:20
96	IR.100507.202600	WG251827-05	Matrix Spike Duplicate	1.35/50	1	L0709626-07	10/05/07 20:26
97	IR.100507.203200	L0709626-01	0082-SO-092107	1.38/50	1		10/05/07 20:32
98	IR.100507.203800	L0709626-02	0083-SO-092107	1.35/50	1		10/05/07 20:38
99	IR.100507.204400	WG252094-01	Post Digestion Spike		1		10/05/07 20:44
100	IR.100507.205000	WG252094-02	Serial Dilution		5		10/05/07 20:50
101	IR.100507.205600	WG252105-29	CCV		1		10/05/07 20:56
102	IR.100507.210200	WG252105-30	CCB		1		10/05/07 21:02
103	IR.100507.210800	WG252094-02	Serial Dilution		25		10/05/07 21:08
104	IR.100507.211400	L0709626-03	0084-SO-092107	1.35/50	1		10/05/07 21:14
105	IR.100507.212000	L0709626-04	0085-SO-092107	1.35/50	1		10/05/07 21:20
106	IR.100507.212600	L0710011-01	14445-G0003	1.36/50	1		10/05/07 21:26
107	IR.100507.213200	L0710011-02	14437-C0011	1.35/50	1	WG251995-01	10/05/07 21:32
108	IR.100507.213800	L0710011-03	14441-C0003	1.36/50	1		10/05/07 21:38
109	IR.100507.214500	L0710011-04	14445-C0007	1.35/50	1		10/05/07 21:45
110	IR.100507.215100	L0710011-05	14483-C0011	1.35/50	1		10/05/07 21:51
111	IR.100507.215700	L0710011-06	17196-C0008	1.36/50	1		10/05/07 21:57

Approved: October 08, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: IRIS-ICP Dataset: 20071005.1
Analyst1: KHR Analyst2: N/A
Method: 6010B SOP: ME600F Rev: 6
Maintenance Log ID: 21146

Calibration Std: STD21940 ICV/CCV Std: STD22251 Post Spike: STD22130
ICSA: STD22161 ICSAB: STD21989

Workgroups: 251962,251981,251982,251983,251420,252095,252097,252094

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	IR.100507.220300	L0710011-07	14684-C0003	1.36/50	1		10/05/07 22:03
113	IR.100507.220900	WG252105-31	CCV		1		10/05/07 22:09
114	IR.100507.221500	WG252105-32	CCB		1		10/05/07 22:15
115	IR.100507.222100	L0710011-08	14684-C0011	1.35/50	1		10/05/07 22:21
116	IR.100507.222700	L0710011-09	14684-C0019	1.35/50	1		10/05/07 22:27
117	IR.100507.223300	L0710011-10	14684-C0023	1.36/50	1		10/05/07 22:33
118	IR.100507.223900	L0710011-11	14684-C0027	1.37/50	1		10/05/07 22:39
119	IR.100507.224500	L0710011-12	14684-C0051	1.35/50	1		10/05/07 22:45
120	IR.100507.225100	WG252105-33	CCV		1		10/05/07 22:51
121	IR.100507.225800	WG252105-34	CCB		1		10/05/07 22:58

Approved: October 08, 2007

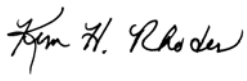
Maren Berry

KEMRON Environmental Services
Data Checklist

Date: 05-OCT-2007
Analyst: KHR
Analyst: NA
Method: 6010B
Instrument: IRIS-ICP
Curve Workgroup: 252105
Runlog ID: 18605
Analytical Workgroups: 251962,251981,251982,251983,251420,252095, 252097,252094

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	X
Client Forms	X
Level X	
Level 3	
Level 4	298,574,626,668,10-011,017,051,064,066,111
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	KHR
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
08-OCT-2007



Secondary Reviewer:
08-OCT-2007

Generated: OCT-08-2007 14:33:49

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6010B **AAB#:** WG252094

Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0083-SO-092107	09/21/07	09/24/07	10/03/07	180	11.8	10/05/07	180	2.57	
0086-SO-092107/MS	09/21/07	09/24/07	10/03/07	180	11.7	10/05/07	180	2.56	
0086-SO-092107	09/21/07	09/24/07	10/03/07	180	11.7	10/05/07	180	2.55	
0086-SO-092107/MSD	09/21/07	09/24/07	10/03/07	180	11.7	10/05/07	180	2.56	
0084-SO-092107	09/21/07	09/24/07	10/03/07	180	11.7	10/05/07	180	2.59	
0082-SO-092107	09/21/07	09/24/07	10/03/07	180	11.8	10/05/07	180	2.56	
0085-SO-092107	09/21/07	09/24/07	10/03/07	180	11.7	10/05/07	180	2.60	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG252094
Blank File ID:	IR.100507.200100	**Blank Sample ID:**	WG251827-02
Prep Date:	10/03/07 07:00	**Instrument ID:**	IRIS-ICP
Analyzed Date:	10/05/07 20:01	**Method:**	6010B
Analyst:	KHR		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251827-03	IR.100507.200700	10/05/07 20:07	01
0086-SO-092107	L0709626-05	IR.100507.201300	10/05/07 20:13	01
0086-SO-092107/MS	L0709626-06	IR.100507.202000	10/05/07 20:20	01
0086-SO-092107/MSD	L0709626-07	IR.100507.202600	10/05/07 20:26	01
0082-SO-092107	L0709626-01	IR.100507.203200	10/05/07 20:32	01
0083-SO-092107	L0709626-02	IR.100507.203800	10/05/07 20:38	01
0084-SO-092107	L0709626-03	IR.100507.211400	10/05/07 21:14	01
0085-SO-092107	L0709626-04	IR.100507.212000	10/05/07 21:20	01

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/03/07 07:00 Sample ID: WG251827-02
Instrument ID: IRIS-ICP Run Date: 10/05/07 20:01 Prep Method: 3050B
File ID: IR.100507.200100 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG252094 Matrix: Soil Units: mg/kg
Contract #: Cal ID: IRIS-I-05-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Silver, Total	0.250	2.00	2.00	1	U
Barium, Total	0.100	0.500	0.500	1	U
Cadmium, Total	0.0500	0.500	0.500	1	U
Chromium, Total	0.120	1.00	1.00	1	U
Lead, Total	0.500	5.00	5.00	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 896520
Report generated 10/08/2007 11:23

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG251827-03
Instrument ID: IRIS-ICP Run Time: 20:07 Prep Method: 3050B
File ID: IR.100507.200700 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG252094 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: MI0058-81 Cal ID: IRIS-I-05-OCT-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Silver, Total	10.0	9.54	95.4	80 - 120	
Barium, Total	25.0	25.0	99.8	80 - 120	
Cadmium, Total	1.25	1.17	93.2	80 - 120	
Chromium, Total	12.5	11.8	94.0	80 - 120	
Lead, Total	12.5	11.3	90.6	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 896521
Report generated 10/08/2007 11:23

KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID: IRIS-ICP-05-OCT-07 Worknum:WG252094
Instrument ID:IRIS-ICP Contract #: Prep Method:3050B
Parent ID:L0709626-05 File ID:IR.100507.201300 Dil:1 Method:6010B
Sample ID:L0709626-06 MS File ID:IR.100507.202000 Dil:1 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:IR.100507.202600 Dil:1 Units:mg/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Silver, Total	U	9.24	9.38	102	9.24	9.45	102	0.653	80 - 120	35	
Barium, Total	381	23.1	376	-21.8	23.1	384	13.2	2.13	80 - 120	35	*
Cadmium, Total	U	1.16	1.42	123	1.16	1.49	129	5.33	80 - 120	35	*
Chromium, Total	10.3	11.6	24.4	122	11.6	20.9	91.9	15.2	80 - 120	35	*
Lead, Total	15.8	11.6	24.8	77.9	11.6	24.3	73.0	2.35	80 - 120	35	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 896522
Report generated 10/08/2007 11:23

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709626 **Worknum:** WG252094
Instrument ID: IRIS-ICP **Method:** 6010B
Sample ID: L0709626-02 **File ID:** IR.100507.203800 **Dil:** 1 **Units:** mg/kg
Serial Dilution ID: WG252094-02 **File ID:** IR.100507.205000 **Dil:** 5

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Barium	1.89		1.99		5.29	
Cadmium	0.00287	F	0	U	100	E
Chromium	0.374		0.411	X	9.89	
Lead	0.342	X	0.403	F	17.8	E
Silver	0.00505	F	0	U	100	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 50 times the MDL
E = %D exceeds control limit of 10% and initial
sample result is greater than or equal to 50 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 896516
Report generated 10/08/2007 11:23

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709626 **Worknum:** WG252094
Instrument ID: IRIS-ICP **Method:** 6010B
Post Spike ID: WG252094-01 **File ID:** IR.100507.204400 **Dil:** 1 **Units:** mg/L
Sample ID: L0709626-02 **File ID:** IR.100507.203800 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
BARIUM	2.19		1.89		.5	97.9	85 - 115	
CADMIUM	0.0264		0.00287	F	.025	95.2	85 - 115	
CHROMIUM	0.565		0.374		.25	91.4	85 - 115	
LEAD	0.537		0.342		.25	91.7	85 - 115	
SILVER	0.198		0.00505	F	.2	96.8	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 896517
Report generated 10/08/2007 11:23

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Workgroup (AAB#):** WG252094

Analytical Method: 6010B **Instrument ID:** IRIS-ICP

ICAL Worknum: WG252105 **Initial Calibration Date:** 05-OCT-2007 10:00

Analyte	WG252105-01		WG252105-02		WG252105-03		WG252105-04		WG252105-05		WG252105-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Barium	0	.42111	.01	5.2627	.02	10.292	.5	239.74	1	476.02	2	955.64
Cadmium	0	.39318	NA	NA	.001	.44873	.025	1.9325	.05	3.6002	.1	6.7365
Chromium	0	.38157	.005	.95401	.01	1.4806	.25	27.776	.5	57.243	1	112.19
Lead	0	.05148	NA	NA	.01	.13797	.25	1.9436	.5	3.9462	1	7.6561
Silver	0	.01661	NA	NA	.008	.12006	.2	4.0832	.4	8.2561	.8	16.758

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 896525
Report generated 10/09/2007 10:02

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Workgroup (AAB#):** WG252094

Analytical Method: 6010B **Instrument ID:** IRIS-ICP

ICAL Worknum: WG252105 **Initial Calibration Date:** 05-OCT-2007 10:00

Analyte	R	Q
Barium	0.999994	
Cadmium	0.999879	
Chromium	0.999931	
Lead	0.999888	
Silver	0.999544	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 896525
Report generated 10/09/2007 10:02

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-12
Instrument ID: IRIS-ICP Run Time: 10:37 Method: 6010B
File ID: IR.100507.103700 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.000240	1	U
Barium	0.00200	0.0100	0.000290	1	U
Cadmium	0.00100	0.0100	-0.000220	1	U
Chromium	0.00240	0.0200	0.000160	1	U
Lead	0.0100	0.100	0.000350	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 896530
Report generated 10/08/2007 11:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-28
Instrument ID: IRIS-ICP Run Time: 19:49 Method: 6010B
File ID: IR.100507.194900 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	-0.00172	1	U
Barium	0.00200	0.0100	0.000270	1	U
Cadmium	0.00100	0.0100	0.0000600	1	U
Chromium	0.00240	0.0200	-0.0000500	1	U
Lead	0.0100	0.100	0.000920	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 896530
Report generated 10/08/2007 11:23

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-30
Instrument ID: IRIS-ICP Run Time: 21:02 Method: 6010B
File ID: IR.100507.210200 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	0.00195	1	U
Barium	0.00200	0.0100	0.000210	1	U
Cadmium	0.00100	0.0100	-0.0000800	1	U
Chromium	0.00240	0.0200	-0.0000800	1	U
Lead	0.0100	0.100	0.00303	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

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KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-32
Instrument ID: IRIS-ICP Run Time: 22:15 Method: 6010B
File ID: IR.100507.221500 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Silver	0.00500	0.0400	0.000400	1	U
Barium	0.00200	0.0100	0.000200	1	U
Cadmium	0.00100	0.0100	-0.000210	1	U
Chromium	0.00240	0.0200	-0.000150	1	U
Lead	0.0100	0.100	0.00126	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

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KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-07
Instrument ID: IRIS-ICP Run Time: 10:07 Method: 6010B
File ID: IR.100507.100700 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Silver		.4	0.395	98.8	90 - 110	
Barium		1	1.01	101	90 - 110	
Cadmium		.05	0.0504	101	90 - 110	
Chromium		.5	0.479	95.9	90 - 110	
Lead		.5	0.486	97.3	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-11
Instrument ID: IRIS-ICP Run Time: 10:31 Method: 6010B
File ID: IR.100507.103100 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.393	mg/L	98.2	90 - 110		
Barium		1.00	1.00	mg/L	100	90 - 110		
Cadmium		0.0500	0.0505	mg/L	101	90 - 110		
Chromium		0.500	0.488	mg/L	97.6	90 - 110		
Lead		0.500	0.496	mg/L	99.2	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-27
Instrument ID: IRIS-ICP Run Time: 19:43 Method: 6010B
File ID: IR.100507.194300 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.397	mg/L	99.3	90 - 110		
Barium		1.00	1.02	mg/L	102	90 - 110		
Cadmium		0.0500	0.0498	mg/L	99.5	90 - 110		
Chromium		0.500	0.479	mg/L	95.9	90 - 110		
Lead		0.500	0.481	mg/L	96.2	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-29
Instrument ID: IRIS-ICP Run Time: 20:56 Method: 6010B
File ID: IR.100507.205600 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.398	mg/L	99.5	90 - 110		
Barium		1.00	1.03	mg/L	103	90 - 110		
Cadmium		0.0500	0.0504	mg/L	101	90 - 110		
Chromium		0.500	0.486	mg/L	97.2	90 - 110		
Lead		0.500	0.492	mg/L	98.4	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
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KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/05/2007 Sample ID: WG252105-31
Instrument ID: IRIS-ICP Run Time: 22:09 Method: 6010B
File ID: IR.100507.220900 Analyst: KHR QC Key: DOWWV2006
Workgroup (AAB#): WG252094 Cal ID: IRIS-I - 05-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		0.400	0.402	mg/L	101	90 - 110		
Barium		1.00	1.04	mg/L	104	90 - 110		
Cadmium		0.0500	0.0504	mg/L	101	90 - 110		
Chromium		0.500	0.486	mg/L	97.2	90 - 110		
Lead		0.500	0.489	mg/L	97.7	90 - 110		

* Exceeds LIMITS Criteria

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KEMRON ENVIRONMENTAL SERVICES
INTERFERENCE CHECK SAMPLES

Login number: L0709626 **Workgroup (AAB#):** WG252094
Instrument ID: IRIS-ICP **Method:** 6010B
Sol. A : WG252105-09 **File ID:** IR.100507.101900 **Units:** mg/L
Sol. AB : WG252105-10 **File ID:** IR.100507.102500

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Barium	NS	0.000190	NS	0.250	0.240	96.0	
Cadmium	NS	0.000560	NS	0.500	0.458	91.6	
Chromium	NS	-0.000120	NS	0.250	0.226	90.4	
Lead	NS	-0.0000400	NS	0.500	0.450	90.0	
Silver	NS	0.00313	NS	0.500	0.470	94.0	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709626 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	-0.00000400	-0.00000300	0	0	0
ARSENIC	189.00	0.0000100	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0.00000100	0.0116	0	-0.00130	0
CALCIUM	373.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	324.70	0	0	0	0	0
IRON	271.40	0	0	0	0	0
LEAD	220.30	0.000429	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	-0.0743	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0.00830
POTASSIUM	766.40	0	0	0	-0.0346	0
SELENIUM	196.00	0.0000750	0.000198	0	0	0
SILICON	251.60	0	0	-0.0157	0	0
SILVER	328.00	0.00000100	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	0	0
THALLIUM	190.80	-0.0000300	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	0	0	0	0	0
VANADIUM	310.20	-0.0000340	0	0	0	0.00900
ZINC	213.80	0.0000200	0	0	0	0

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709626 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.00524	0	0	0
ANTIMONY	206.80	0	0	0.0183	0	0.00000500
ARSENIC	189.00	0	0	0.000280	0	-0.000110
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0.0000440	0.00160	0	0	0.0000250
CADMIUM	228.80	0.00000200	0.0000780	0	0	0.00000300
CALCIUM	373.70	0	0	0	0	0.00329
CHROMIUM	267.70	0	0	0	0	-0.0000100
COBALT	228.60	0	0	0.0000450	0	0.00000200
COPPER	324.70	0	0	-0.000150	0	0.00000900
IRON	271.40	0.00000600	0.0844	0	0	0
LEAD	220.30	0	-0.000300	-0.000220	0	0.0000170
LITHIUM	670.80	-0.0000500	0	0	0	0
MAGNESIUM	277.90	0	0	-0.0330	0	0.00135
MANGANESE	257.60	0	0	0	0	-0.0000340
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0.000400	0	0	0.00000700
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0.00541	0	0	-0.000668
SILICON	251.60	0	0	0	0	0
SILVER	328.00	0	0	-0.0000420	0	-0.00000800
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0.0000580	0	0	-0.000304
THALLIUM	190.80	0	0.00708	0.000190	0	-0.000150
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	-0.0000300	0	0.000300	0	0
VANADIUM	310.20	0	0	-0.000646	0	-0.00000600
ZINC	213.80	0	0.000312	0	0.000523	0.0000600

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KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709626 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0.00180	0.0228	0
ANTIMONY	206.80	0	0	0	-0.00800	0
ARSENIC	189.00	0	0	0	0.00108	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	-0.0000500	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00000200	0	0	0
CALCIUM	373.70	0	0	0.00160	0	0
CHROMIUM	267.70	0	0	0.000510	0	0
COBALT	228.60	0	0	0	0	0
COPPER	324.70	0	0	0	0.000424	0
IRON	271.40	0	0	-0.000500	-0.00740	0
LEAD	220.30	0	0	0	-0.00300	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	0	0.00132	0.0452	0
MANGANESE	257.60	0	0.0000190	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0.00114	0.00147	0
SILICON	251.60	0	0	0	0.00800	0
SILVER	328.00	0	0	0.0000600	-0.000290	-0.0000370
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	-0.0000800	0
THALLIUM	190.80	0	0	0.00110	-0.00710	0
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	-0.00250	0	0	0	0
VANADIUM	310.20	0	-0.00000400	0	0	0
ZINC	213.80	0	0.0000180	0.000279	0	0.000186

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709626 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	NI	SB	SN	SR	TI
ALUMINUM	308.20	0	0	0	0	-0.00200
ANTIMONY	206.80	-0.000100	0	0	0	0.000620
ARSENIC	189.00	0	-0.000420	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.0000710	0	0	0	0
CALCIUM	373.70	0.00195	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	-0.00386	0	0.00180
COPPER	324.70	0	0	0	0	-0.000950
IRON	271.40	-0.000613	0	0	-0.00410	0
LEAD	220.30	0.000489	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	277.90	0	0	0.0347	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0.0000180	0	0	0	0
SILICON	251.60	0	0	0	0	0.00665
SILVER	328.00	0	0	0	0	0.000978
SODIUM	589.50	0	0	0	0	0
STRONTIUM	215.20	0	0	0	0	0
THALLIUM	190.80	0	-0.000146	0	0	0.00180
TIN	189.90	0	0	0	0	0
TITANIUM	334.90	0	0	0	0	0
VANADIUM	310.20	0	0	0	0	0
ZINC	213.80	0.00507	0	0	0	0

KEMRON Environmental Services

INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L0709626 **Date:** 01/05/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Wave Length	V	ZN
ALUMINUM	308.20	0.0299	0
ANTIMONY	206.80	0.0000700	0
ARSENIC	189.00	0	0
BARIUM	455.40	0	0
BERYLLIUM	313.00	0.00139	0
BORON	249.70	0	0
CADMIUM	228.80	0.0000850	0
CALCIUM	373.70	0	0
CHROMIUM	267.70	0.000100	0
COBALT	228.60	0	-0.00100
COPPER	324.70	0	-0.00203
IRON	271.40	-0.0775	0
LEAD	220.30	0	0
LITHIUM	670.80	0	0
MAGNESIUM	277.90	0.0180	0
MANGANESE	257.60	-0.0000750	0
MOLYBDENUM	202.03	-0.000247	0.00200
NICKEL	231.60	0	0
POTASSIUM	766.40	0	0
SELENIUM	196.00	0.000152	0.0265
SILICON	251.60	0	0
SILVER	328.00	-0.0211	-0.000144
SODIUM	589.50	0	0
STRONTIUM	215.20	0	0.000200
THALLIUM	190.80	0.00321	0
TIN	189.90	0	0
TITANIUM	334.90	0	0
VANADIUM	310.20	0	0
ZINC	213.80	0.000220	0

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KEMRON Environmental Services

LINEAR RANGE (QUARTERLY)

Login Number: L0709626 **Date:** 09/28/2007

Insturment ID: IRIS-ICP **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	630.0
Antimony	55.00	45.0
Arsenic	55.00	90.0
Barium	10.00	16.2
Beryllium	10.00	3.6
Boron	55.00	72.0
Cadmium	55.00	27.0
Calcium	10.00	450.0
Chromium	55.00	18.0
Cobalt	55.00	90.0
Copper	10.00	45.0
Iron	55.00	720.0
Lead	55.00	180.0
Lithium	10.00	9.0
Magnesium	55.00	900.0
Manganese	55.00	16.2
Molybdenum	55.00	27.0
Nickel	55.00	72.0
Potassium	10.00	180.0
Selenium	55.00	18.0
Silicon	55.00	45.0
Silver	10.00	7.2
Sodium	10.00	135.0
Strontium	55.00	27.0
Thallium	55.00	18.0
Tin	55.00	27.0
Titanium	10.00	22.5
Vanadium	10.00	90.0
Zinc	55.00	18.0

Comments:

2.3.2 Metals ICP-MS Data

2.3.2.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709626

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6020

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.

MS/MSD: WG251812(6020) - Sample 05 was chosen by the client for MS/MSD analysis. Samples 06(MS) and 07(MSD) yielded % recoveries out of limits for two elements.

Serial Dilution/Post Digestion Spike: WG251812(6020) - Due to post-digestion spike failure for selenium, client sample 02 was reanalyzed at a dilution with a post digestion spike and met acceptance criteria.

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: JYH

Approved: 10-OCT-07

LABORATORY REPORT

L0709626

10/17/07 08:16

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG. 706/707/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0082-SO-092107	L0709626-01	6020	1	24-SEP-07
0083-SO-092107	L0709626-02	6020	1	24-SEP-07
0083-SO-092107	L0709626-02	6020	2	24-SEP-07
0084-SO-092107	L0709626-03	6020	1	24-SEP-07
0085-SO-092107	L0709626-04	6020	1	24-SEP-07
0086-SO-092107	L0709626-05	6020	1	24-SEP-07
0086-SO-092107/MS	L0709626-06	6020	1	24-SEP-07
0086-SO-092107/MSD	L0709626-07	6020	1	24-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-01**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**0082-SO-092107**	Prep Method:	**3051**	Prep Date:	**10/01/2007 09:00**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**10/03/2007 08:53**
Workgroup Number:	**WG251812**	Analyst:	**JYH**	Run Date:	**10/03/2007 12:31**
Collect Date:	**09/21/2007 11:05**	Dilution:	**1**	File ID:	**EL.100307.123150**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**13.6**		**0.355**	**0.0887**
Selenium, Total	**7782-49-2**	**0.286**		**0.236**	**0.118**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-02**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**0083-SO-092107**	Prep Method:	**3051**	Prep Date:	**10/01/2007 09:00**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**10/03/2007 08:53**
Workgroup Number:	**WG251812**	Analyst:	**JYH**	Run Date:	**10/03/2007 12:38**
Collect Date:	**09/21/2007 11:50**	Dilution:	**1**	File ID:	**EL.100307.123823**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**1.04**		**0.341**	**0.0852**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	L0709626-02	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	0083-SO-092107	Prep Method:	3051	Prep Date:	10/01/2007 09:00
Matrix:	Soil	Analytical Method:	6020	Cal Date:	10/04/2007 10:15
Workgroup Number:	WG251812	Analyst:	JYH	Run Date:	10/04/2007 12:00
Collect Date:	09/21/2007 11:50	Dilution:	2	File ID:	EL.100407.120046
Sample Tag:	DL01	Units:	mg/kg	Percent Solid:	88.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Selenium, Total	7782-49-2	1.04		0.454	0.227

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251812**
Collect Date: **09/21/2007 13:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **10/01/2007 09:00**
Cal Date: **10/03/2007 08:53**
Run Date: **10/03/2007 13:11**
File ID: **EL.100307.131127**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**4.58**		**0.339**	**0.0848**
Selenium, Total	**7782-49-2**	**0.986**		**0.226**	**0.113**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-04**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**0085-SO-092107**	Prep Method:	**3051**	Prep Date:	**10/01/2007 09:00**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**10/03/2007 08:53**
Workgroup Number:	**WG251812**	Analyst:	**JYH**	Run Date:	**10/03/2007 13:17**
Collect Date:	**09/21/2007 14:10**	Dilution:	**1**	File ID:	**EL.100307.131759**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**5.54**		**0.325**	**0.0812**
Selenium, Total	**7782-49-2**	**1.30**		**0.216**	**0.108**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-05**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**0086-SO-092107**	Prep Method:	**3051**	Prep Date:	**10/01/2007 09:00**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**10/03/2007 08:53**
Workgroup Number:	**WG251812**	Analyst:	**JYH**	Run Date:	**10/03/2007 12:12**
Collect Date:	**09/21/2007 14:50**	Dilution:	**1**	File ID:	**EL.100307.121213**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**5.17**		**0.374**	**0.0936**
Selenium, Total	**7782-49-2**	**0.853**		**0.250**	**0.125**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG251812**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **10/01/2007 09:00**
Cal Date: **10/03/2007 08:53**
Run Date: **10/03/2007 12:18**
File ID: **EL.100307.121845**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**11.8**		**0.374**	**0.0936**
Selenium, Total	**7782-49-2**	**7.90**		**0.250**	**0.125**

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG251812**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3051**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **1**
Units: **mg/kg**

Instrument: **ELAN-ICP**
Prep Date: **10/01/2007 09:00**
Cal Date: **10/03/2007 08:53**
Run Date: **10/03/2007 12:25**
File ID: **EL.100307.122517**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**13.3**		**0.374**	**0.0936**
Selenium, Total	**7782-49-2**	**8.78**		**0.250**	**0.125**

2.3.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - CRI - Soil
QC Std 4 - CRI - Water
QC Std 5 - ICSA
QC Std 6 - ICSAB
QC Std 7 - CCV
QC Std 8 - CCB

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

R1281023

KEMRON ENVIRONMENTAL SERVICES

Microwave Digestion Log

Analyst(s): VC
Date: 10/1/07 09:60
LCS: 0.5 mL STD 21717
MS/MSD: 0.5 mL STD 21717
Witness: Ed
HNO_3 Lot #: CoA105 27
HCl Lot #:
Digest Tube Lot #: CoA125-21
Earliest Sample Due Date: 10/5
Microwave # MW2

Box: 52
Digestion Work Group: WG 251545
ME407 Revision # ____ Method 3015-Water
ME406 Revision # 8 Method 3051-Soil-Oil

Relinquished By: VC
Digest Received By: BKP Date: 10/1/07

	KEMRON #	Initial Wt/Vol	Final Volume	Initial Weight	Final Weight	Comments	Due Date
1	PBS 24	0.500g	200mL	17612g	176.10g	02	
2	LCS	0.500		17463	17461	03	
3	09-626-01 *	0.517		17334	17333		10/8
4	02	0.500		17612	17611		
5	03	0.500		17356	17356		
6	04	0.510		17572	17571		
7	MS-1	0.500		17462	17461	01	
8	06MS	0.500		17606	17605	04	
9	07MSD	0.500		17602	17601	05	
10	668 01 *	0.581		17704	17703		10/5
11	02	0.544		17634	17637		
12	03	0.550		17333	17331		
13	04	0.611		17415	17418		
14	05	0.788		17601	17600		
15	06	0.520		17523	17522		
16	07	0.516		17467	17460		
17	08	0.557		17468	17467		
18	MS 17	0.543		17612	17610		
19	10	0.536		17438	17438		
20	11	0.574		17627	17626		
21	12	0.538		17635	17633		
22	13	0.530		17556	17555		
23	14 VC 10/1/07	—					
24							
25							
26							
27							
28							
29							
30							

VC 10/1/07

Comments: * level 4

Primary Review: Vicki Collins 10/1/07 Secondary Review: Emily Decker 10-01-07

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100307A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251774,251812

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.100307.082730	Blank	Blank		1		10/03/07 08:27
2	EL.100307.083400	WG251927-01	Calibration Point		1		10/03/07 08:34
3	EL.100307.084031	WG251927-02	Calibration Point		1		10/03/07 08:40
4	EL.100307.084702	WG251927-03	Calibration Point		1		10/03/07 08:47
5	EL.100307.085334	WG251927-04	Calibration Point		1		10/03/07 08:53
6	EL.100307.090007	WG251927-05	Initial Calibration Verification		1		10/03/07 09:00
7	EL.100307.090648	WG251927-06	Initial Calib Blank		1		10/03/07 09:06
8	EL.100307.091331	WG251927-07	CRQL Check Solid		1		10/03/07 09:13
9	EL.100307.092007	WG251927-08	CRQL Check Water		1		10/03/07 09:20
10	EL.100307.092642	WG251927-09	Interference Check		1		10/03/07 09:26
11	EL.100307.093316	WG251927-10	Interference Check		1		10/03/07 09:33
12	EL.100307.093950	WG251927-11	CCV		1		10/03/07 09:39
13	EL.100307.094631	WG251927-12	CCB		1		10/03/07 09:46
14	EL.100307.095311	WG251588-02	Method/Prep Blank	.5/200	1		10/03/07 09:53
15	EL.100307.095941	WG251588-03	Laboratory Control S	.5/200	1		10/03/07 09:59
16	EL.100307.100612	L0709701-01	SR-232-SO1	.507/200	5		10/03/07 10:06
17	EL.100307.101242	L0709701-02	SR-232-SO2	.528/200	5		10/03/07 10:12
18	EL.100307.101913	WG251588-01	Reference Sample		1	L0709668-35	10/03/07 10:19
19	EL.100307.102545	WG251588-04	Matrix Spike	.69/200	1	L0709668-36	10/03/07 10:25
20	EL.100307.103217	WG251588-05	Matrix Spike Duplica	.69/200	1	L0709668-37	10/03/07 10:32
21	EL.100307.103849	L0709668-34	NR-12-110-145DUP	.679/200	1		10/03/07 10:38
22	EL.100307.104521	WG251774-01	Post Digestion Spike		1	L0709668-34	10/03/07 10:45
23	EL.100307.105154	WG251774-02	Serial Dilution		5	L0709668-34	10/03/07 10:51
24	EL.100307.105827	WG251927-13	CCV		1		10/03/07 10:58
25	EL.100307.110508	WG251927-14	CCB		1		10/03/07 11:05
26	EL.100307.111150	L0709668-38	NR-12-110-155	.708/200	1		10/03/07 11:11
27	EL.100307.111823	L0709668-39	NR-12-110-160	.688/200	1		10/03/07 11:18
28	EL.100307.112455	L0709668-40	NR-12-110-165	.708/200	1		10/03/07 11:24
29	EL.100307.113126	L0709668-41	NR-12-110-165DUP	.704/200	1	WG251683-01	10/03/07 11:31
30	EL.100307.113758	WG251927-15	CCV		1		10/03/07 11:37
31	EL.100307.114439	WG251927-16	CCB		1		10/03/07 11:44
32	EL.100307.115910	WG251545-02	Method/Prep Blank	.5/200	1		10/03/07 11:59
33	EL.100307.120541	WG251545-03	Laboratory Control S	.5/200	1		10/03/07 12:05
34	EL.100307.121213	WG251545-01	Reference Sample		1	L0709626-05	10/03/07 12:12
35	EL.100307.121845	WG251545-04	Matrix Spike	.5/200	1	L0709626-06	10/03/07 12:18
36	EL.100307.122517	WG251545-05	Matrix Spike Duplica	.5/200	1	L0709626-07	10/03/07 12:25
37	EL.100307.123150	L0709626-01	0082-SO-092107	.517/200	1		10/03/07 12:31

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100307A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251774,251812

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.100307.123823	L0709626-02	0083-SO-092107	.5/200	1		10/03/07 12:38
39	EL.100307.124456	WG251812-01	Post Digestion Spike		1	L0709626-02	10/03/07 12:44
40	EL.100307.125130	WG251812-02	Serial Dilution		5	L0709626-02	10/03/07 12:51
41	EL.100307.125803	WG251927-17	CCV		1		10/03/07 12:58
42	EL.100307.130445	WG251927-18	CCB		1		10/03/07 13:04
43	EL.100307.131127	L0709626-03	0084-SO-092107	.5/200	1		10/03/07 13:11
44	EL.100307.131759	L0709626-04	0085-SO-092107	.51/200	1		10/03/07 13:17
45	EL.100307.132641	L0709668-01	NR-12-110-5	.581/200	1	WG251327-01	10/03/07 13:26
46	EL.100307.133312	L0709668-02	NR-12-110-10	.564/200	1		10/03/07 13:33
47	EL.100307.133943	L0709668-03	NR-12-110-15	.55/200	1		10/03/07 13:39
48	EL.100307.134615	L0709668-04	NR-12-110-20	.611/200	1		10/03/07 13:46
49	EL.100307.135248	L0709668-05	NR-12-110-25	.78/200	1		10/03/07 13:52
50	EL.100307.135920	L0709668-06	NR-12-110-30	.52/200	1		10/03/07 13:59
51	EL.100307.140553	WG251927-19	CCV		1		10/03/07 14:05
52	EL.100307.141234	WG251927-20	CCB		1		10/03/07 14:12
53	EL.100307.141916	L0709668-07	NR-12-110-35	.516/200	1		10/03/07 14:19
54	EL.100307.142549	L0709668-08	NR-12-110-40	.557/200	1		10/03/07 14:25
55	EL.100307.143223	L0709668-09	NR-12-110-45	.543/200	1		10/03/07 14:32
56	EL.100307.143857	L0709668-10	NR-12-110-45DUP	.536/200	1		10/03/07 14:38
57	EL.100307.144531	L0709668-11	NR-12-110-50	.574/200	1		10/03/07 14:45
58	EL.100307.145204	L0709668-12	NR-12-110-55	.538/200	1		10/03/07 14:52
59	EL.100307.145835	L0709668-13	NR-12-110-60	.53/200	1		10/03/07 14:58
60	EL.100307.150507	WG251927-21	CCV		1		10/03/07 15:05
61	EL.100307.151149	WG251927-22	CCB		1		10/03/07 15:11

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100407A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251812,251959,251984

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.100407.094913	Blank	Blank		1		10/04/07 09:49
2	EL.100407.095543	WG251974-01	Calibration Point		1		10/04/07 09:55
3	EL.100407.100213	WG251974-02	Calibration Point		1		10/04/07 10:02
4	EL.100407.100844	WG251974-03	Calibration Point		1		10/04/07 10:08
5	EL.100407.101516	WG251974-04	Calibration Point		1		10/04/07 10:15
6	EL.100407.102149	WG251974-05	Initial Calibration Verification		1		10/04/07 10:21
7	EL.100407.102830	WG251974-06	Initial Calib Blank		1		10/04/07 10:28
8	EL.100407.103513	WG251974-07	CRQL Check Solid		1		10/04/07 10:35
9	EL.100407.104149	WG251974-08	CRQL Check Water		1		10/04/07 10:41
10	EL.100407.104824	WG251974-09	Interference Check		1		10/04/07 10:48
11	EL.100407.105458	WG251974-10	Interference Check		1		10/04/07 10:54
12	EL.100407.110132	WG251974-11	CCV		1		10/04/07 11:01
13	EL.100407.110814	WG251974-12	CCB		1		10/04/07 11:08
14	EL.100407.111455	L0709668-07	NR-12-110-35	.516/200	1		10/04/07 11:14
15	EL.100407.112128	L0709668-08	NR-12-110-40	.557/200	1		10/04/07 11:21
16	EL.100407.112802	L0709668-09	NR-12-110-45	.543/200	1		10/04/07 11:28
17	EL.100407.113436	L0709668-10	NR-12-110-45DUP	.536/200	1		10/04/07 11:34
18	EL.100407.114110	L0709668-11	NR-12-110-50	.574/200	1		10/04/07 11:41
19	EL.100407.114743	L0709668-12	NR-12-110-55	.538/200	1		10/04/07 11:47
20	EL.100407.115414	L0709668-13	NR-12-110-60	.53/200	1		10/04/07 11:54
21	EL.100407.120046	L0709626-02	0083-SO-092107	.5/200	2		10/04/07 12:00
22	EL.100407.120718	WG251812-01	Post Digestion Spike		2	L0709626-02	10/04/07 12:07
23	EL.100407.121350	WG251812-02	Serial Dilution		10	L0709626-02	10/04/07 12:13
24	EL.100407.122023	WG251974-13	CCV		1		10/04/07 12:20
25	EL.100407.122704	WG251974-14	CCB		1		10/04/07 12:27
26	EL.100407.124503	WG251938-03	Method/Prep Blank	40/100	1		10/04/07 12:45
27	EL.100407.125136	WG251938-04	Laboratory Control S	40/100	1		10/04/07 12:51
28	EL.100407.125809	WG251938-01	Reference Sample		1	L0710021-01	10/04/07 12:58
29	EL.100407.130443	WG251938-05	Matrix Spike	40/100	1		10/04/07 13:04
30	EL.100407.131117	WG251938-06	Matrix Spike Duplica	40/100	1		10/04/07 13:11
31	EL.100407.131751	L0710084-02	BACKWASH/COMP	40/100	4	WG251938-02	10/04/07 13:17
32	EL.100407.132426	WG251938-07	Duplicate	40/100	4		10/04/07 13:24
33	EL.100407.133059	L0710089-01	OUTFALL 002/COMP	40/100	4		10/04/07 13:30
34	EL.100407.133731	WG251959-01	Post Digestion Spike		4	L0710089-01	10/04/07 13:37
35	EL.100407.134403	WG251959-02	Serial Dilution		20	L0710089-01	10/04/07 13:44
36	EL.100407.135035	WG251974-15	CCV		1		10/04/07 13:50
37	EL.100407.135717	WG251974-16	CCB		1		10/04/07 13:57

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Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100407A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251812,251959,251984

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.100407.140358	WG251938-03	Method/Prep Blank		1		10/04/07 14:03
39	EL.100407.141151	L0710021-02	MW-2S	40/100	1	WG251930-01	10/04/07 14:11
40	EL.100407.141824	L0710021-03	MW-2B	40/100	1	WG251935-01	10/04/07 14:18
41	EL.100407.142457	L0710021-04	MW-3S	40/100	1		10/04/07 14:24
42	EL.100407.143130	L0710021-05	MW-3B	40/100	1		10/04/07 14:31
43	EL.100407.143804	L0710021-06	MW-4S	40/100	1		10/04/07 14:38
44	EL.100407.144438	L0710021-07	MW-4B	40/100	1		10/04/07 14:44
45	EL.100407.145112	L0710021-08	MW-5S	40/100	1		10/04/07 14:51
46	EL.100407.145747	L0710021-09	MW-6S	40/100	1		10/04/07 14:57
47	EL.100407.150422	L0710021-10	MW-7S	40/100	1		10/04/07 15:04
48	EL.100407.151056	WG251974-17	CCV		1		10/04/07 15:10
49	EL.100407.151737	WG251974-18	CCB		1		10/04/07 15:17
50	EL.100407.152418	L0710021-11	MW-7B	40/100	1		10/04/07 15:24
51	EL.100407.153050	L0710021-12	MW-8S	40/100	1		10/04/07 15:30
52	EL.100407.153723	L0710021-13	MW-9S	40/100	1		10/04/07 15:37
53	EL.100407.154356	L0710021-14	MW-10S	40/100	1		10/04/07 15:43
54	EL.100407.155029	WG251974-19	CCV		1		10/04/07 15:50
55	EL.100407.155710	WG251974-20	CCB		1		10/04/07 15:57
56	EL.100407.160453	WG251942-02	Method/Prep Blank	.5/200	1		10/04/07 16:04
57	EL.100407.161124	WG251942-03	Laboratory Control S	.5/200	1		10/04/07 16:11
58	EL.100407.161754	WG251942-01	Reference Sample		1	L0709298-17	10/04/07 16:17
59	EL.100407.162425	WG251942-04	Matrix Spike	.5/200	1	L0709298-18	10/04/07 16:24
60	EL.100407.163056	WG251942-05	Matrix Spike Duplica	.5/200	1	L0709298-19	10/04/07 16:30
61	EL.100407.163727	L0710064-01	XX8608	.5/200	1	WG252010-02	10/04/07 16:37
62	EL.100407.164359	L0710066-01	XX8609	.5/200	1	WG252010-03	10/04/07 16:43
63	EL.100407.165031	L0709298-01	BGA074	.501/200	1		10/04/07 16:50
64	EL.100407.165703	WG251984-01	Post Digestion Spike		1	L0709298-01	10/04/07 16:57
65	EL.100407.170336	WG251984-02	Serial Dilution		5	L0709298-01	10/04/07 17:03
66	EL.100407.171009	WG251974-21	CCV		1		10/04/07 17:10
67	EL.100407.171651	WG251974-22	CCB		1		10/04/07 17:16
68	EL.100407.172332	L0709298-02	BGA075	.5/200	1		10/04/07 17:23
69	EL.100407.173006	L0709298-03	BGA076	.507/200	1		10/04/07 17:30
70	EL.100407.173638	L0709298-04	BGA077	.5/200	1		10/04/07 17:36
71	EL.100407.174308	L0709298-05	BGA079	.5/200	1		10/04/07 17:43
72	EL.100407.174939	L0709298-06	BGA081	.5/200	1		10/04/07 17:49
73	EL.100407.175610	L0709298-07	BGA086	.507/200	1		10/04/07 17:56
74	EL.100407.180242	L0709298-08	BGA097	.503/200	1		10/04/07 18:02

Approved: October 05, 2007

KEMRON Environmental Services

Instrument Run Log

Instrument: ELAN-ICP Dataset: 100407A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 4
Maintenance Log ID: 19692

Calibration Std: STD21454 ICV/CCV Std: STD21905 Post Spike: STD21680
ICSA: STD21872 ICSAB: STD21873

Workgroups: 251812,251959,251984

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	EL.100407.180914	L0709298-09	BGA098	.501/200	1		10/04/07 18:09
76	EL.100407.181546	L0709298-10	BGA099	.507/200	1		10/04/07 18:15
77	EL.100407.182219	L0709298-11	BGA100	.5/200	1		10/04/07 18:22
78	EL.100407.182852	WG251974-23	CCV		1		10/04/07 18:28
79	EL.100407.183533	WG251974-24	CCB		1		10/04/07 18:35
80	EL.100407.184215	L0709298-12	BGA101	.5/200	1		10/04/07 18:42
81	EL.100407.184848	L0709298-13	BGA102	.506/200	1		10/04/07 18:48
82	EL.100407.185522	L0709298-14	BGA103	.5/200	1		10/04/07 18:55
83	EL.100407.190155	L0709298-15	BGA104	.5/200	1		10/04/07 19:01
84	EL.100407.190828	L0709298-16	BGA105	.505/200	1		10/04/07 19:08
85	EL.100407.191500	WG251974-25	CCV		1		10/04/07 19:15
86	EL.100407.192141	WG251974-26	CCB		1		10/04/07 19:21

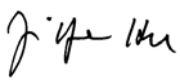
Approved: October 05, 2007

KEMRON Environmental Services
Data Checklist

Date: 03-OCT-2007
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 251927
Runlog ID: 18561
Analytical Workgroups: 251774,251812

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	
Case Narrative	668,701,626
Client Forms	X
Level X	
Level 3	
Level 4	668,701,626
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	LSB
Comments	

Primary Reviewer:



Secondary Reviewer:
05-OCT-2007

Generated: OCT-05-2007 15:09:59

KEMRON Environmental Services
Data Checklist

Date: 04-OCT-2007
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: WG251974
Runlog ID: 18578
Analytical Workgroups: 251812,251959,251984

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	
Case Narrative	626,668,021,084,089,064,066,298
Client Forms	X
Level X	021
Level 3	
Level 4	626,668,064,066,298
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	LSB
Comments	

Primary Reviewer:

Secondary Reviewer:
05-OCT-2007

Generated: OCT-05-2007 11:44:38

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 **AAB#:** WG251812

Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0082-SO-092107	09/21/07	09/24/07	10/01/07	180	9.91	10/03/07	180	2.15	
0086-SO-092107/MS	09/21/07	09/24/07	10/01/07	180	9.76	10/03/07	180	2.14	
0086-SO-092107	09/21/07	09/24/07	10/01/07	180	9.76	10/03/07	180	2.13	
0085-SO-092107	09/21/07	09/24/07	10/01/07	180	9.78	10/03/07	180	2.18	
0083-SO-092107	09/21/07	09/24/07	10/01/07	180	9.88	10/03/07	180	2.15	
0083-SO-092107	09/21/07	09/24/07	10/01/07	180	9.88	10/04/07	180	3.13	
0084-SO-092107	09/21/07	09/24/07	10/01/07	180	9.80	10/03/07	180	2.17	
0086-SO-092107/MSD	09/21/07	09/24/07	10/01/07	180	9.76	10/03/07	180	2.14	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251812
Blank File ID:	EL.100307.115910	**Blank Sample ID:**	WG251545-02
Prep Date:	10/01/07 09:00	**Instrument ID:**	ELAN-ICP
Analyzed Date:	10/03/07 11:59	**Method:**	6020
Analyst:	JYH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251545-03	EL.100307.120541	10/03/07 12:05	01
0086-SO-092107	L0709626-05	EL.100307.121213	10/03/07 12:12	01
0086-SO-092107/MS	L0709626-06	EL.100307.121845	10/03/07 12:18	01
0086-SO-092107/MSD	L0709626-07	EL.100307.122517	10/03/07 12:25	01
0082-SO-092107	L0709626-01	EL.100307.123150	10/03/07 12:31	01
0083-SO-092107	L0709626-02	EL.100307.123823	10/03/07 12:38	01
0084-SO-092107	L0709626-03	EL.100307.131127	10/03/07 13:11	01
0085-SO-092107	L0709626-04	EL.100307.131759	10/03/07 13:17	01
0083-SO-092107	L0709626-02	EL.100407.120046	10/04/07 12:00	DL01

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 10/01/07 09:00 Sample ID: WG251545-02
Instrument ID: ELAN-ICP Run Date: 10/03/07 11:59 Prep Method: 3051
File ID: EL.100307.115910 Analyst: JYH Method: 6020
Workgroup (AAB#): WG251812 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-03-OCT-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.0750	0.300	0.300	1	U
Selenium, Total	0.100	0.200	0.200	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 893736
Report generated 10/04/2007 14:50

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251545-03
Instrument ID: ELAN-ICP Run Time: 12:05 Prep Method: 3051
File ID: EL.100307.120541 Analyst: JYH Method: 6020
Workgroup (AAB#): WG251812 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD21680 Cal ID: ELAN-I-03-OCT-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	10.0	9.68	96.8	80 - 120	
Selenium, Total	10.0	9.71	97.1	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 893737
Report generated 10/04/2007 14:50

KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID: ELAN-ICP-03-OCT-07 Worknum:WG251812
Instrument ID:ELAN-ICP Contract #: Prep Method:3051
Parent ID:L0709626-05 File ID:EL.100307.121213 Dil:1 Method:6020
Sample ID:L0709626-06 MS File ID:EL.100307.121845 Dil:1 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:EL.100307.122517 Dil:1 Units:mg/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	5.17	12.5	11.8	52.9	12.5	13.3	65.1	12.2	80 - 120	35	*
Selenium, Total	0.853	12.5	7.90	56.5	12.5	8.78	63.5	10.6	80 - 120	35	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 893738
Report generated 10/04/2007 14:50

KEMRON Environmental Services

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L0709626 Cal ID: ELAN-ICP- Worknum: WG251812
Instrument ID: ELAN-ICP Contract #: Method: 6020
Parent ID: WG251545-01 File ID: EL.100307.121213 Dil: 1 Matrix: SOLID
Sample ID: WG251545-04 MS File ID: EL.100307.121845 Dil: 1 Units: mg/kg
Sample ID: WG251545-05 MSD File ID: EL.100307.122517 Dil: 1 Percent Solid: 80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	5.17	12.5	11.8	52.9	12.5	13.3	65.1	12.2	80 - 120	35	*
Selenium, Total	0.853	12.5	7.90	56.5	12.5	8.78	63.5	10.6	80 - 120	35	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

KEMRON FORMS - Modified 09/25/2007 (wg_ms_msd_drywt)

Version 1.5 PDF File ID: 893739
Report generated 10/04/2007 14:50

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709626 Worknum: WG251812
Instrument ID: ELAN-ICP Method: 6020
Sample ID: L0709626-02 File ID: EL.100407.120046 Dil: 2 Units: ug/kg
Serial Dilution ID: WG251812-02 File ID: EL.100407.121350 Dil: 10

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Arsenic	2.58	X	3.29	F	27.5	E
Selenium	2.29	X	4.40	F	92.1	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 100 times the MDL
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 893732
Report generated 10/04/2007 14:51

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709626 Worknum: WG251812
Instrument ID: ELAN-ICP Method: 6020
Sample ID: L0709626-02 File ID: EL.100307.123823 Dil: 1 Units: ug/kg
Serial Dilution ID: WG251812-02 File ID: EL.100307.125130 Dil: 5

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Arsenic	2.28	X	2.59	F	13.6	E
Selenium	2.02	X	2.36	F	16.8	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 100 times the MDL
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 893732
Report generated 10/04/2007 14:51

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709626 **Worknum:** WG251812
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG251812-01 **File ID:** EL.100407.120718 **Dil:** 2 **Units:** ug/L
Sample ID: L0709626-02 **File ID:** EL.100407.120046 **Dil:** 2 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	54.3		1.29		50	106.1	75 - 125	
SELENIUM	52.2		1.15		50	102.0	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 893733
Report generated 10/04/2007 14:51

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709626 **Worknum:** WG251812
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG251812-01 **File ID:** EL.100307.124456 **Dil:** 1 **Units:** ug/L
Sample ID: L0709626-02 **File ID:** EL.100307.123823 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	49.9		2.28		50	95.3	75 - 125	
SELENIUM	44.3		2.02		50	84.6	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 893733
Report generated 10/04/2007 14:51

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Workgroup (AAB#):** WG251812

Analytical Method: 6020 **Instrument ID:** ELAN-ICP

ICAL Worknum: WG251927 **Initial Calibration Date:** 03-OCT-2007 08:53

Analyte	WG251927-01		WG251927-02		WG251927-03		WG251927-04			
	STD	INT	STD	INT	STD	INT	STD	INT	R	Q
Arsenic	0	-607.821	.4	518.049	50	134725.71	100	261290.334	0.999972	
Selenium	0	21.235	.4	97.554	50	10877.828	100	21228.284	0.999995	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 893742
Report generated 10/04/2007 14:50

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626 **Workgroup (AAB#):** WG251812

Analytical Method: 6020 **Instrument ID:** ELAN-ICP

ICAL Worknum: WG251974 **Initial Calibration Date:** 04-OCT-2007 10:15

Analyte	WG251974-01		WG251974-02		WG251974-03		WG251974-04			
	STD	INT	STD	INT	STD	INT	STD	INT	R	Q
Arsenic	0	-558.447	.4	364.694	50	118724.101	100	227141.365	0.999990	
Selenium	0	2.762	.4	93.522	50	10129.626	100	19252.964	0.999980	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 03/08/2007
Version 1.5 PDF File ID: 893742
Report generated 10/04/2007 14:50

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-12
Instrument ID: ELAN-ICP Run Time: 09:46 Method: 6020
File ID: EL.100307.094631 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0109	1	U
Selenium	0.250	0.500	0.00330	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-16
Instrument ID: ELAN-ICP Run Time: 11:44 Method: 6020
File ID: EL.100307.114439 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0148	1	U
Selenium	0.250	0.500	0.0597	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-18
Instrument ID: ELAN-ICP Run Time: 13:04 Method: 6020
File ID: EL.100307.130445 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.00680	1	U
Selenium	0.250	0.500	0.0707	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-20
Instrument ID: ELAN-ICP Run Time: 14:12 Method: 6020
File ID: EL.100307.141234 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0111	1	U
Selenium	0.250	0.500	0.0531	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/04/2007 Sample ID: WG251974-12
Instrument ID: ELAN-ICP Run Time: 11:08 Method: 6020
File ID: EL.100407.110814 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 04-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0521	1	U
Selenium	0.250	0.500	0.00890	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 10/04/2007 Sample ID: WG251974-14
Instrument ID: ELAN-ICP Run Time: 12:27 Method: 6020
File ID: EL.100407.122704 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 04-OCT-07
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Arsenic	0.188	0.750	0.0211	1	U
Selenium	0.250	0.500	0.00910	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 893747
Report generated 10/04/2007 14:51

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709626 Run Date: 10/04/2007 Sample ID: WG251974-05
Instrument ID: ELAN-ICP Run Time: 10:21 Method: 6020
File ID: EL.100407.102149 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 04-OCT-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	48.9	97.8	90 - 110	
Selenium		50	49.8	99.6	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 893743
Report generated 10/04/2007 14:50

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-05
Instrument ID: ELAN-ICP Run Time: 09:00 Method: 6020
File ID: EL.100307.090007 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	49.5	98.9	90 - 110	
Selenium		50	50.8	102	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 893743
Report generated 10/04/2007 14:50

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-11
Instrument ID: ELAN-ICP Run Time: 09:39 Method: 6020
File ID: EL.100307.093950 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	49.0	ug/L	97.9	90 - 110		
Selenium		50.0	50.1	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-15
Instrument ID: ELAN-ICP Run Time: 11:37 Method: 6020
File ID: EL.100307.113758 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	49.0	ug/L	97.9	90 - 110		
Selenium		50.0	50.2	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-17
Instrument ID: ELAN-ICP Run Time: 12:58 Method: 6020
File ID: EL.100307.125803 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	47.4	ug/L	94.8	90 - 110		
Selenium		50.0	47.0	ug/L	94.0	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/03/2007 Sample ID: WG251927-19
Instrument ID: ELAN-ICP Run Time: 14:05 Method: 6020
File ID: EL.100307.140553 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 03-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	51.3	ug/L	103	90 - 110		
Selenium		50.0	54.0	ug/L	108	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/04/2007 Sample ID: WG251974-11
Instrument ID: ELAN-ICP Run Time: 11:01 Method: 6020
File ID: EL.100407.110132 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 04-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	48.0	ug/L	96.0	90 - 110		
Selenium		50.0	49.6	ug/L	99.1	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 10/04/2007 Sample ID: WG251974-13
Instrument ID: ELAN-ICP Run Time: 12:20 Method: 6020
File ID: EL.100407.122023 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG251812 Cal ID: ELAN-I - 04-OCT-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	50.4	ug/L	101	90 - 110		
Selenium		50.0	52.1	ug/L	104	90 - 110		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 893746
Report generated 10/04/2007 14:51

KEMRON ENVIRONMENTAL SERVICES
INTERFERENCE CHECK SAMPLES

Login number: L0709626 **Workgroup (AAB#):** WG251812
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG251927-09 **File ID:** EL.100307.092642 **Units:** ug/L
Sol. AB : WG251927-10 **File ID:** EL.100307.093316

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.0322	NS	100	96.2	96.2	
Selenium	NS	0.102	NS	100	96.0	96.0	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

KEMRON ENVIRONMENTAL SERVICES
INTERFERENCE CHECK SAMPLES

Login number: L0709626 **Workgroup (AAB#):** WG251812
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG251974-09 **File ID:** EL.100407.104824 **Units:** ug/L
Sol. AB : WG251974-10 **File ID:** EL.100407.105458

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.0493	NS	100	99.5	99.5	
Selenium	NS	-0.0872	NS	100	100	100	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

KEMRON Environmental Services

LINEAR RANGE (QUARTERLY)

Login Number: L0709626 **Date:** 09/07/2007

Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:

2.3.3 Metals CVAA Data (Mercury)

2.3.3.1 Summary Data

KEMRON ENVIRONMENTAL SERVICES
METALS

KEMRON Login No: L0709626

METHOD

Preparation: SW-846 7471A

Analysis: SW-846 7471A

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.

MS/MSD: WG251321(7471A) - Sample 05 was chosen by the client for MS/MSD analysis. Sample 06(MS) met acceptance criteria. Sample 07(MSD) yielded a % recovery out of limits for mercury.

Serial Dilution/Post Digestion Spike: WG251321(7471A) - All acceptance criteria were met.

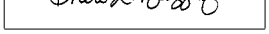
SAMPLES

WG251321(7471A) - Due to results that exceeded the calibration range of the instrument upon initial analysis, mercury for client samples 02 and 03 was reported from dilution analyses.

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

Approved: 10-OCT-07



LABORATORY REPORT

L0709626

10/17/07 08:16

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Account Number: 2736
Work ID: TECH CENTER BLDG. 706/707/794

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0082-SO-092107	L0709626-01	7471A	1	24-SEP-07
0083-SO-092107	L0709626-02	7471A	2	24-SEP-07
0084-SO-092107	L0709626-03	7471A	20	24-SEP-07
0085-SO-092107	L0709626-04	7471A	1	24-SEP-07
0086-SO-092107	L0709626-05	7471A	1	24-SEP-07
0086-SO-092107/MS	L0709626-06	7471A	1	24-SEP-07
0086-SO-092107/MSD	L0709626-07	7471A	1	24-SEP-07

KEMRON ENVIRONMENTAL SERVICES

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	**L0709626-01**	PrePrep Method:	**NONE**	Instrument:	**HYDRA**
Client ID:	**0082-SO-092107**	Prep Method:	**METHOD**	Prep Date:	**09/27/2007 08:50**
Matrix:	**Soil**	Analytical Method:	**7471A**	Cal Date:	**09/28/2007 08:39**
Workgroup Number:	**WG251321**	Analyst:	**SLP**	Run Date:	**09/28/2007 09:01**
Collect Date:	**09/21/2007 11:05**	Dilution:	**1**	File ID:	**HY.092807.090144**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**81.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	**7439-97-6**		**U**	**0.301**	**0.0120**

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-02**
Client ID: **0083-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251321**
Collect Date: **09/21/2007 11:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **2**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/27/2007 08:50**
Cal Date: **09/28/2007 08:39**
Run Date: **09/28/2007 10:06**
File ID: **HY.092807.100628**
Percent Solid: **88.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.924		0.530	0.0212

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-03**
Client ID: **0084-SO-092107**
Matrix: **Soil**
Workgroup Number: **WG251321**
Collect Date: **09/21/2007 13:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **20**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/27/2007 08:50**
Cal Date: **09/28/2007 08:39**
Run Date: **09/28/2007 10:16**
File ID: **HY.092807.101613**
Percent Solid: **88.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	12.2		5.44	0.217

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	L0709626-04	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0085-SO-092107	Prep Method:	METHOD	Prep Date:	09/27/2007 08:50
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/28/2007 08:39
Workgroup Number:	WG251321	Analyst:	SLP	Run Date:	09/28/2007 09:09
Collect Date:	09/21/2007 14:10	Dilution:	1	File ID:	HY.092807.090955
Sample Tag:	01	Units:	mg/kg	Percent Solid:	90.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.273	0.0109

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number:	L0709626-05	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0086-SO-092107	Prep Method:	METHOD	Prep Date:	09/27/2007 08:50
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/28/2007 08:39
Workgroup Number:	WG251321	Analyst:	SLP	Run Date:	09/28/2007 09:12
Collect Date:	09/21/2007 14:50	Dilution:	1	File ID:	HY.092807.091212
Sample Tag:	01	Units:	mg/kg	Percent Solid:	80.2

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.290	0.0116

U Not detected at or above the reporting limit

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-06**
Client ID: **0086-SO-092107/MS**
Matrix: **Soil**
Workgroup Number: **WG251321**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/27/2007 08:50**
Cal Date: **09/28/2007 08:39**
Run Date: **09/28/2007 09:13**
File ID: **HY.092807.091350**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.371		0.290	0.0116

Report Number: **L0709626**
Report Date : **October 17, 2007**

Sample Number: **L0709626-07**
Client ID: **0086-SO-092107/MSD**
Matrix: **Soil**
Workgroup Number: **WG251321**
Collect Date: **09/21/2007 14:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **METHOD**
Analytical Method: **7471A**
Analyst: **SLP**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/27/2007 08:50**
Cal Date: **09/28/2007 08:39**
Run Date: **09/28/2007 09:15**
File ID: **HY.092807.091550**
Percent Solid: **80.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.475		0.290	0.0116

2.3.3.2 QC Summary Data

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

Mercury Digestion Log

Analyst(s): Ed
Date: 09-27-07
LCS: 4ml STD22118
MS/MSD: 4ml STD22118
Witness: ~~[illegible]~~
H_2SO_4 Lot #: N/A
$K2S_2O_8$ Lot #: N/A
$KMNO_4$ Lot #: RGT12080
HNO_3 Lot #: COA12526
Digest Tube Lot #: ~~COA~~ 12524
~~Aqua Regia~~: HCl: COA12527
Earliest Sample Due Date: 10-01-07
ICV / CCV: STD22126
Stds: 0, 0.2, 1, 2, 5, 10: STD22120 → 22125

Box: C4

Digestion Work Group: WG 251205

ME404 Revision # ____ - Method 7470A-Water
ME405 Revision # 8 - Method 7471A-Soil

Hot Block Temperature at start: 94.7°C @ 0850

Hot Block Temperature at end: 96.1°C @ 0920

Relinquished By: Ed
Digest Received By: [illegible] Date: 9/27/07

	KEMRON #	Initial Wt/Vol	Final Volume	Comments	Due Date
1	PBS	0.600g	40ml	-02	
2	LCS	↓	↓	-03	
3	09-626-01	0.609		level 4	10-08-07
4	-02	0.643			
5	-03	0.624			
6	-04	0.606			
7	-05 PS	0.645		-01	
8	-06 MS	↓		-04	
9	-07 MSD	↓		-05	↓
10	09-633-01	0.601		level 4 DOD 3	10-01-07
11	-02	0.619			
12	-03	0.613			
13	-04	0.632			
14	-05	0.616			
15	-06	0.632			
16	-07	0.613			
17	-08	0.609			
18	-09	0.620			
19	-10	0.638			
20	-11	0.611		↓	↓
21	09-644-02	0.622		level 4	10-03-07
22	-03	0.656	↓	↓	↓
23		JR 9/27/07			
~~24~~					
25					

Comments: ____

Primary Review: ~~Emily Decker 09-27-07~~ Secondary Review: 9/27/07

KEMRON Environmental Services

Instrument Run Log

Instrument: HYDRA Dataset: 092807A.PRN
Analyst1: SLP Analyst2: N/A
Method: 7471A SOP: 405 Rev: 8
Maintenance Log ID: 21050

Calibration Std: STD22125 ICV/CCV Std: STD22126 Post Spike: STD22125
ICSA: N/A ICSAB: N/A

Workgroups: 251321, 251324

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.092807.083040	WG251384-01	Calibration Point		1		09/28/07 08:30
2	HY.092807.083248	WG251384-02	Calibration Point		1		09/28/07 08:32
3	HY.092807.083426	WG251384-03	Calibration Point		1		09/28/07 08:34
4	HY.092807.083604	WG251384-04	Calibration Point		1		09/28/07 08:36
5	HY.092807.083747	WG251384-05	Calibration Point		1		09/28/07 08:37
6	HY.092807.083949	WG251384-06	Calibration Point		1		09/28/07 08:39
7	HY.092807.084711	WG251384-07	Initial Calibration Verification		1		09/28/07 08:47
8	HY.092807.084903	WG251384-08	Initial Calib Blank		1		09/28/07 08:49
9	HY.092807.085141	WG251384-09	CCV		1		09/28/07 08:51
10	HY.092807.085340	WG251384-10	CCB		1		09/28/07 08:53
11	HY.092807.085807	WG251205-02	Method/Prep Blank	.6/40	1		09/28/07 08:58
12	HY.092807.085950	WG251205-03	Laboratory Control S	.6/40	1		09/28/07 08:59
13	HY.092807.090144	L0709626-01	0082-SO-092107	.609/40	1		09/28/07 09:01
14	HY.092807.090406	WG251321-01	Post Digestion Spike		1	L0709626-01	09/28/07 09:04
15	HY.092807.090602	L0709626-02	0083-SO-092107		1		09/28/07 09:06
16	HY.092807.090752	L0709626-03	0084-SO-092107		1		09/28/07 09:07
17	HY.092807.090955	L0709626-04	0085-SO-092107	.606/40	1		09/28/07 09:09
18	HY.092807.091212	WG251205-01	Reference Sample		1	L0709626-05	09/28/07 09:12
19	HY.092807.091350	WG251205-04	Matrix Spike	.645/40	1	L0709626-06	09/28/07 09:13
20	HY.092807.091550	WG251205-05	Matrix Spike Duplica	.645/40	1	L0709626-07	09/28/07 09:15
21	HY.092807.091748	WG251384-11	CCV		1		09/28/07 09:17
22	HY.092807.091926	WG251384-12	CCB		1		09/28/07 09:19
23	HY.092807.092109	L0709633-01	CD-SS-BP303-001	.601/40	1		09/28/07 09:21
24	HY.092807.092246	WG251321-02	Post Digestion Spike		1	L0709633-01	09/28/07 09:22
25	HY.092807.092424	L0709633-02	CD-SS-BP301-001	.619/40	1		09/28/07 09:24
26	HY.092807.092600	L0709633-03	CD-SS-BP305-001	.613/40	1		09/28/07 09:26
27	HY.092807.092736	L0709633-04	CD-SS-BP305-002	.632/40	1		09/28/07 09:27
28	HY.092807.092916	L0709633-05	CD-SS-BP302-001	.616/40	1		09/28/07 09:29
29	HY.092807.093108	L0709633-06	CD-SS-BP305-003	.632/40	1		09/28/07 09:31
30	HY.092807.093246	L0709633-07	CD-SS-BP304-001	.613/40	1		09/28/07 09:32
31	HY.092807.093435	L0709633-08	CD-SS-BP304-001-A	.609/40	1		09/28/07 09:34
32	HY.092807.093653	L0709633-09	CD-SS-BP304-003	.62/40	1		09/28/07 09:36
33	HY.092807.093834	WG251384-13	CCV		1		09/28/07 09:38
34	HY.092807.094022	WG251384-14	CCB		1		09/28/07 09:40
35	HY.092807.094200	L0709633-10	CD-BF-BS001-001	.638/40	1	WG251192-01	09/28/07 09:42
36	HY.092807.094352	L0709633-11	CD-TS-BS001-001	.611/40	1		09/28/07 09:43
37	HY.092807.094529	L0709644-02	AV-NCB-PE-ELE-40-C3-0	.622/40	1		09/28/07 09:45

Approved: October 01, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: HYDRA Dataset: 092807A.PRN
Analyst1: SLP Analyst2: N/A
Method: 7471A SOP: 405 Rev: 8
Maintenance Log ID: 21050

Calibration Std: STD22125 ICV/CCV Std: STD22126 Post Spike: STD22125
ICSA: N/A ICSAB: N/A

Workgroups: 251321, 251324

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	HY.092807.094709	WG251321-03	Post Digestion Spike		1	L0709644-02	09/28/07 09:47
39	HY.092807.094858	L0709644-03	AV-NCB-AS-ELE-4-09240	.656/40	1		09/28/07 09:48
40	HY.092807.095038	WG251384-15	CCV		1		09/28/07 09:50
41	HY.092807.095247	WG251384-16	CCB		1		09/28/07 09:52
42	HY.092807.100628	L0709626-02	0083-SO-092107	.643/40	2		09/28/07 10:06
43	HY.092807.100806	L0709626-03	0084-SO-092107		10		09/28/07 10:08
44	HY.092807.100947	WG251321-04	Serial Dilution		50	L0709626-03	09/28/07 10:09
45	HY.092807.101613	L0709626-03	0084-SO-092107	.624/40	20		09/28/07 10:16
46	HY.092807.101806	WG251321-04	Serial Dilution		100	L0709626-03	09/28/07 10:18
47	HY.092807.101953	WG251384-17	CCV		1		09/28/07 10:19
48	HY.092807.102132	WG251384-18	CCB		1		09/28/07 10:21
49	HY.092807.102320	WG251219-02	Method/Prep Blank	.6/40	1		09/28/07 10:23
50	HY.092807.102457	WG251219-03	Laboratory Control S	.6/40	1		09/28/07 10:24
51	HY.092807.102634	L0709111-01	BGA045	.647/40	1		09/28/07 10:26
52	HY.092807.102835	WG251324-01	Post Digestion Spike		1	L0709111-01	09/28/07 10:28
53	HY.092807.103013	L0709111-02	BGA046	.614/40	1		09/28/07 10:30
54	HY.092807.103203	L0709111-03	BGA047	.631/40	1		09/28/07 10:32
55	HY.092807.103340	L0709111-04	BGA048	.62/40	1		09/28/07 10:33
56	HY.092807.103517	WG251219-01	Reference Sample		1	L0709111-05	09/28/07 10:35
57	HY.092807.103656	WG251219-04	Matrix Spike	.638/40	1	L0709111-06	09/28/07 10:36
58	HY.092807.103855	WG251219-05	Matrix Spike Duplica	.638/40	1	L0709111-07	09/28/07 10:38
59	HY.092807.104038	WG251384-19	CCV		1		09/28/07 10:40
60	HY.092807.104246	WG251384-20	CCB		1		09/28/07 10:42
61	HY.092807.104424	L0709111-08	BGA050	.632/40	1		09/28/07 10:44
62	HY.092807.104611	L0709111-09	BGA051	.609/40	1		09/28/07 10:46
63	HY.092807.104757	L0709111-10	BGA052	.632/40	1		09/28/07 10:47
64	HY.092807.105005	L0709111-11	BGA053	.63/40	1		09/28/07 10:50
65	HY.092807.105141	L0709111-12	BGA054	.616/40	1		09/28/07 10:51
66	HY.092807.105407	L0709111-13	BGA059	.613/40	1		09/28/07 10:54
67	HY.092807.105545	L0709111-14	BGA061	.621/40	1		09/28/07 10:55
68	HY.092807.105732	L0709111-15	BGA062	.631/40	1		09/28/07 10:57
69	HY.092807.105931	L0709111-16	BGA063	.618/40	1		09/28/07 10:59
70	HY.092807.110118	L0709111-17	BGA065	.626/40	1		09/28/07 11:01
71	HY.092807.110257	WG251384-21	CCV		1		09/28/07 11:02
72	HY.092807.110457	WG251384-22	CCB		1		09/28/07 11:04
73	HY.092807.110701	L0709111-18	BGA091	.614/40	1	WG251229-01	09/28/07 11:07
74	HY.092807.110852	L0709610-01	GM07158	.6/40	1		09/28/07 11:08

Page: 2

Approved: October 01, 2007

Maren Berry

KEMRON Environmental Services

Instrument Run Log

Instrument: HYDRA Dataset: 092807A.PRN
Analyst1: SLP Analyst2: N/A
Method: 7471A SOP: 405 Rev: 8
Maintenance Log ID: 21050

Calibration Std: STD22125 ICV/CCV Std: STD22126 Post Spike: STD22125
ICSA: N/A ICSAB: N/A

Workgroups: 251321, 251324

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	HY.092807.111029	WG251324-02	Post Digestion Spike		1	L0709610-01	09/28/07 11:10
76	HY.092807.111208	L0709663-01	CONFIRMATION	.607/40	1		09/28/07 11:12
77	HY.092807.111346	WG251324-03	Post Digestion Spike		1	L0709663-01	09/28/07 11:13
78	HY.092807.111525	WG251384-23	CCV		1		09/28/07 11:15
79	HY.092807.111704	WG251384-24	CCB		1		09/28/07 11:17

Comments

Seq.	Rerun	Dil.	Reason	Analytes
15			Hg OLR; reanalyzed @ dil. for Hg.	
16			Hg OLR; reanalyzed @ dil. for Hg.	
43			Hg OLR; reanalyzed @ dil. for Hg.	

Approved: October 01, 2007

Maren Berry

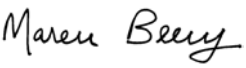
KEMRON Environmental Services
Data Checklist

Date: 28-SEP-2007
Analyst: SLP
Analyst: NA
Method: 7471A
Instrument: HYDRA
Curve Workgroup: 251384
Runlog ID: 18481
Analytical Workgroups: 251321, 251324

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	626, 633, 644, 111, 610, 663
Client Forms	X
Level X	
Level 3	663
Level 4	626, 633, 644, 111
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	SLP
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
28-SEP-2007

Secondary Reviewer:
01-OCT-2007



Generated: OCT-01-2007 11:54:11

KEMRON Environmental Services
HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7471A **AAB#:** WG251321
Login Number: L0709626

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0086-SO-092107/MSD	09/21/07	09/24/07	09/27/07	28	5.75	09/28/07	28	1.02	
0086-SO-092107/MS	09/21/07	09/24/07	09/27/07	28	5.75	09/28/07	28	1.02	
0083-SO-092107	09/21/07	09/24/07	09/27/07	28	5.88	09/28/07	28	1.05	
0085-SO-092107	09/21/07	09/24/07	09/27/07	28	5.78	09/28/07	28	1.01	
0082-SO-092107	09/21/07	09/24/07	09/27/07	28	5.91	09/28/07	28	1.01	
0084-SO-092107	09/21/07	09/24/07	09/27/07	28	5.79	09/28/07	28	1.06	
0086-SO-092107	09/21/07	09/24/07	09/27/07	28	5.75	09/28/07	28	1.02	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

KEMRON FORMS - Modified 11/20/2006
Version 1.5 PDF File ID: 887845
Report generated 09/28/2007 12:43

KEMRON Environmental Services

METHOD BLANK SUMMARY

Login Number:	L0709626	**Work Group:**	WG251321
Blank File ID:	HY.092807.085807	**Blank Sample ID:**	WG251205-02
Prep Date:	09/27/07 08:50	**Instrument ID:**	HYDRA
Analyzed Date:	09/28/07 08:58	**Method:**	7471A
Analyst:	SLP		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG251205-03	HY.092807.085950	09/28/07 08:59	01
0082-SO-092107	L0709626-01	HY.092807.090144	09/28/07 09:01	01
0085-SO-092107	L0709626-04	HY.092807.090955	09/28/07 09:09	01
0086-SO-092107	L0709626-05	HY.092807.091212	09/28/07 09:12	01
0086-SO-092107/MS	L0709626-06	HY.092807.091350	09/28/07 09:13	01
0086-SO-092107/MSD	L0709626-07	HY.092807.091550	09/28/07 09:15	01
0083-SO-092107	L0709626-02	HY.092807.100628	09/28/07 10:06	DL01
0084-SO-092107	L0709626-03	HY.092807.101613	09/28/07 10:16	DL01

KEMRON Environmental Services

METHOD BLANK REPORT

Login Number: L0709626 Prep Date: 09/27/07 08:50 Sample ID: WG251205-02
Instrument ID: HYDRA Run Date: 09/28/07 08:58 Prep Method: METHOD
File ID: HY.092807.085807 Analyst: SLP Method: 7471A
Workgroup (AAB#): WG251321 Matrix: Soil Units: mg/kg
Contract #: Cal ID: HYDRA-28-SEP-07

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0100	0.250	0.250	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

KEMRON FORMS - Modified 12/07/2006
Version 1.5 PDF File ID: 887847
Report generated 09/28/2007 12:43

KEMRON Environmental Services

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251205-03
Instrument ID: HYDRA Run Time: 08:59 Prep Method: METHOD
File ID: HY.092807.085950 Analyst: SLP Method: 7471A
Workgroup (AAB#): WG251321 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: MI-7470-01 Cal ID: HYDRA-28-SEP-07

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Total	0.267	0.277	104	80 - 120	

KEMRON FORMS - Modified 09/06/2007
Version 1.5 PDF File ID: 887848
Report generated 09/28/2007 12:43

KEMRON Environmental Services

MS/MSD REPORT

Loginnum:L0709626 Cal ID:HYDRA-28-SEP-07 Worknum:WG251321
Instrument ID:HYDRA Contract #: Prep Method:METHOD
Parent ID:L0709626-05 File ID:HY.092807.091212 Dil:1 Method:7471A
Sample ID:L0709626-06 MS File ID:HY.092807.091350 Dil:1 Matrix:Soil
Sample ID:L0709626-07 MSD File ID:HY.092807.091550 Dil:1 Units:mg/kg
Percent Solid:80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury, Total	U	0.309	0.371	120	0.309	0.475	154	24.7	75 - 125	25	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

KEMRON FORMS - Modified 02/08/2007
Version 1.5 PDF File ID: 887849
Report generated 10/10/2007 13:15

KEMRON Environmental Services

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L0709626 Cal ID: HYDRA- Worknum: WG251321
Instrument ID: HYDRA Contract #: Method: 7471A
Parent ID: WG251205-01 File ID: HY.092807.091212 Dil: 1 Matrix: SOLID
Sample ID: WG251205-04 MS File ID: HY.092807.091350 Dil: 1 Units: mg/kg
Sample ID: WG251205-05 MSD File ID: HY.092807.091550 Dil: 1 Percent Solid: 80.2

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury, Total	0.142	0.309	0.371	73.8	0.309	0.475	108	24.7	75 - 125	25	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

KEMRON FORMS - Modified 09/25/2007 (wg_ms_msd_drywt)

Version 1.5 PDF File ID: 900265
Report generated 10/10/2007 13:15

KEMRON ENVIRONMENTAL SERVICES
SERIAL DILUTION REPORT

Sample Login ID: L0709626 Worknum: WG251321
Instrument ID: HYDRA Method: 7471A
Sample ID: L0709626-03 File ID: HY.092807.101613 Dil: 20 Units: ug/kg
Serial Dilution ID: WG251321-04 File ID: HY.092807.101806 Dil: 100

Analyte	Sample	C	Serial Dilution	C	% Difference	Q
Mercury	169		134	F	20.7	E

U = Result is below MDL
F = Result is between MDL and RL
X = Result is greater than RL and less than 25 times the MDL
E = %D exceeds control limit of 10% and initial
sample result is greater than or equal to 25 times the MDL

KEMRON FORMS - Modified 02/14/2006
Version 1.3 PDF File ID: 887910
Report generated 09/28/2007 12:55

KEMRON ENVIRONMENTAL SERVICES
POST SPIKE REPORT

Sample Login ID: L0709626 **Worknum:** WG251321
Instrument ID: HYDRA **Method:** 7471A
Post Spike ID: WG251321-01 **File ID:** HY.092807.090406 **Dil:** 1 **Units:** ug/L
Sample ID: L0709626-01 **File ID:** HY.092807.090144 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	1.31		0.244	F	1	109.0	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

KEMRON FORMS - Modified 04/20/2007 - POST_SPIKE
Version 2.0 PDF File ID: 887844
Report generated 09/28/2007 12:43

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626
Analytical Method: 7471A
ICAL Worknum: WG251384

Workgroup (AAB#): WG251321
Instrument ID: HYDRA
Initial Calibration Date: 09/28/2007 08:39

Analyte	WG251384-01		WG251384-02		WG251384-03		WG251384-04		WG251384-05		WG251384-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	2361	0.200	17060	1.00	78703	2.00	156048	5.00	373143	10.0	738607

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 02/02/2007
Version 1.5 PDF File ID: 887850
Report generated 09/28/2007 12:43

KEMRON Environmental Services

INITIAL CALIBRATION SUMMARY

Login Number: L0709626
Analytical Method: 7471A
ICAL Worknum: WG251384

Workgroup (AAB#): WG251321
Instrument ID: HYDRA
Initial Calibration Date: 09/28/2007 08:39

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

KEMRON FORMS - Modified 02/02/2007
Version 1.5 PDF File ID: 887850
Report generated 09/28/2007 12:43

KEMRON Environmental Services

INITIAL CALIBRATION BLANK (ICB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-08
Instrument ID: HYDRA Run Time: 08:49 Method: 7471A
File ID: HY.092807.084903 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-.036	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 10/02/2006
Version 1.5 PDF File ID: 887852
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-10
Instrument ID: HYDRA Run Time: 08:53 Method: 7471A
File ID: HY.092807.085340 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0370	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 887854
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-12
Instrument ID: HYDRA Run Time: 09:19 Method: 7471A
File ID: HY.092807.091926 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0560	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 887854
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-14
Instrument ID: HYDRA Run Time: 09:40 Method: 7471A
File ID: HY.092807.094022 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0110	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 887854
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-16
Instrument ID: HYDRA Run Time: 09:52 Method: 7471A
File ID: HY.092807.095247 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0340	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 887854
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-18
Instrument ID: HYDRA Run Time: 10:21 Method: 7471A
File ID: HY.092807.102132 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Mercury	0.150	3.75	-0.0270	1	U

U = Result is less than MDL
F = Result is between MDL and RL
* = Result is above RL

KEMRON FORMS - Modified 09/27/2006
Version 2.0 PDF File ID: 887854
Report generated 09/28/2007 12:43

KEMRON Environmental Services

INITIAL CALIBRATION VERIFICATION (ICV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-07
Instrument ID: HYDRA Run Time: 08:47 Method: 7471A
File ID: HY.092807.084711 Analyst: SLP Units: ug/L
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.06	103	90 - 110	

* Exceeds LIMITS Limit

KEMRON FORMS - Modified 09/06/2007 (ICV)
Version 1.5 PDF File ID: 887851
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-09
Instrument ID: HYDRA Run Time: 08:51 Method: 7471A
File ID: HY.092807.085141 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00206	mg/L	103	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 887853
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-11
Instrument ID: HYDRA Run Time: 09:17 Method: 7471A
File ID: HY.092807.091748 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00212	mg/L	106	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 887853
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-13
Instrument ID: HYDRA Run Time: 09:38 Method: 7471A
File ID: HY.092807.093834 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00210	mg/L	105	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 887853
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-15
Instrument ID: HYDRA Run Time: 09:50 Method: 7471A
File ID: HY.092807.095038 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00215	mg/L	108	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 887853
Report generated 09/28/2007 12:43

KEMRON Environmental Services

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L0709626 Run Date: 09/28/2007 Sample ID: WG251384-17
Instrument ID: HYDRA Run Time: 10:19 Method: 7471A
File ID: HY.092807.101953 Analyst: SLP QC Key: DOWWV2006
Workgroup (AAB#): WG251321 Cal ID: HYDRA - 28-SEP-07

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00221	mg/L	111	80 - 120		

* Exceeds LIMITS Criteria

KEMRON FORMS - Modified 09/06/2007 - (CCV)
Version 1.5 PDF File ID: 887853
Report generated 09/28/2007 12:43

2.4 General Chemistry Data

2.4.1 Percent Solids Data

2.4.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

WORKGROUP: WG251432

PERCENT SOLIDS

SOP K0003 Rev: 9

Balance: OHAUS EIRW60/Other

Sample	Empty Pan WT 1	WET WT2	DRY WT 3A	WET WT 3B	DRY WT 3C
L0709699-04	1.26	24.77	15.75		
05	1.27	29.83	18.24		
06	1.25	23.03	10.23		
07	1.27	37.32	16.10		
08	1.29	34.51	25.92		
09	1.32	32.51	24.93		
10	1.31	23.39	17.56		
11	1.30	28.30	20.72		
12	1.28	31.91	25.49		
L0709626-01	1.30	28.56	23.60		
02	1.29	26.50	23.49		
03	1.32	25.66	22.85		
04	1.31	28.22	25.69		
5, 6, 7	1.28	26.02	21.11		
~~L0706~~ L0709624-01	1.30	27.10	~~20.40~~ 24.71 9/28 ← ~~24.71~~		24.71
L0709663-01	1.32	21.86	18.88		
L0709643-01	1.31	22.93	20.40		
02	1.29	15.68	~~10.89~~ 9/28	10.89	
L0709644-03	1.28	24.74	20.35		
L0709644-02	1.27	33.44	28.40		
Duplicate: L0709644-02	1.25	32.46	27.63		

#1 9/28/07

Analyst: Justin P. Hesson
Deanna Hesson

ADT (on): 9/28/2007 @ 1545
ADT (off): 9/30/2007 ~~1607~~ 1407
ADT (off): _____

DCN#71201

Deanna Hesson
Approved: October 01, 2007

KEMRON ENVIRONMENTAL SERVICES
PERCENT SOLID REPORT

Workgroup (AAB#):WG251432 Run Date:09/28/2007
Method:D2216-90 Run Time:15:45
Analyst:DIH

SAMPLE NUMBER	Pan WT.	Int WT.	Fnl WT.	% Solid	% Moist	UNITS
L0709624-01	1.300	27.10	24.71	90.74		%
L0709626-01	1.300	28.56	23.60	81.80		%
L0709626-02	1.290	26.50	23.49	88.06		%
L0709626-03	1.320	25.66	22.85	88.46		%
L0709626-04	1.310	28.22	25.69	90.60		%
L0709626-05	1.280	26.02	21.11	80.15		%
L0709626-06	1.280	26.02	21.11	80.15		%
L0709626-07	1.280	26.02	21.11	80.15		%
L0709643-01	1.310	22.93	20.40	88.30		%
L0709643-02	1.290	15.68	10.89	66.71		%
L0709644-02	1.270	33.44	28.40	84.33		%
L0709644-03	1.280	24.74	20.35	81.29		%
L0709663-01	1.320	21.86	18.88	85.49		%
L0709699-04	1.260	24.77	15.75	61.63		%
L0709699-05	1.270	29.83	18.24	59.42		%
L0709699-06	1.250	23.03	10.23	41.23		%
L0709699-07	1.270	37.32	16.10	41.14		%
L0709699-08	1.290	34.51	25.92	74.14		%
L0709699-09	1.320	32.51	24.93	75.70		%
L0709699-10	1.310	23.39	17.56	73.60		%
L0709699-11	1.300	28.30	20.72	71.93		%
L0709699-12	1.280	31.91	25.49	79.04		%
WG251432-01	1.270	33.44	28.40	84.33	15.67	%
WG251432-02	1.250	32.46	27.63	84.52	15.48	%

KEMRON FORMS - Modified 02/25/2007
Version 1.2
Report generated 10/01/2007 08:59

Approved: October 01, 2007

3.0 Attachments

Kemron Environmental Services
Analyst Listing
October 17, 2007

AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BOCK	AML – ANTHONY M. LONG
ARA – ADRIAN R. ACHTERMANN	ASP – AARON S. PETRIE	BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CLC – CHRYS L. CRAWFORD	CLW – CHARISSA L. WINTERS	CM – CHARLIE MARTIN
CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DD – DIANE M. DENNIS	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
DR – DEANNA ROBERTS	DRP – DAVE R. PITZER	DSF – DEBRA S. FREDERICK
DST – DENNIS S. TEPE	ECL – ERIC C. LAWSON	ED – EMILY E. DECKER
ERE – ERIN R. ELDER	FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR
HJR – HOLLY J. REED	JAB – JUANITA A. BECKER	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JCO – JOE C. OWENS	JDH – JUSTIN D. HESSON
JKP – JACQUELINE K. PARSONS	JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES	JYH – JI Y. HU	KCZ – KEVIN C. ZUMBRO
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KJW – KATIE J. WIEFERICH
KRA – KATHY R. ALBERTSON	KRV – KATHRINE R. VICKERS	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN
MES – MARY E. SCHILLING	MKZ – MARILYN K. ZUMBRO	MLR – MARY L. ROCHOTTE
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
NJB – NATALIE J. BOOTH	PJM – PAUL J. MILLER	RAH – ROY A. HALSTEAD
RB – ROBERT BUCHANAN	REK – ROBERT E. KYER	RLF – RACHEL L. FRYE
RLK – ROBIN L. KLINGER	RNP – RICK N. PETTY	RWC – RODNEY W. CAMPBELL
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE
TDH – TRICIA D. HUCK	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WFM – WALTER F. MARTIN	

KEMRON Environmental Services

List of Valid Qualifiers

October 17, 2007

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 71723

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M HILL

Project Contact: Paul Weber

Contact Phone #: 919-875-8809 x13

Turn Around Requirements: Standard

Location: South Charleston WV

Project #: 342092.01.WP

Project Name: Tech Center Bldg. 706/707/294

Sampler (print): Kevin Oluess

Signature:

Program: ☐ NPDES ☐ AFCEE ☐ RCRA ☐ USAGE ☐ Other

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF CONTAINERS	Hold	TCL-VOC-8260	TCL-SVOC-8270	RCRA metals	ADDITIONAL REQUIREMENTS Sample interval
0082-SO-092107			09/21/07	1105			4		X	X	X	0-2'
0083-SO-092107			"	1150			4		X	X	X	0-2'
0084-SO-092107			"	1355			4		X	X	X	0-2'
0085-SO-092107			"	1410			4		X	X	X	0-2'
0086-SO-092107/MS/MSD			"	1450			12		X	X	X	0-2'
Trip Blank			"				1		X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	09/21/07	1540					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:
			Erin Elder	9-24-07	1011	18	

*Homogenize all composite samples prior to analysis

Page _____ of _____

KEMRON Environmental Services

SAMPLE RECEIPT FORM

156 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	CH2MHill
Workorder Number: B	9038
Date Received:	9-24-07
Delivered by:	(✓) Fedx ( ) UPS ( ) Client ( ) Courier **Time:** 1011
Opened by:	EE
IR Temp Gun:	( ) D (✓) G
Logged by:	L 9-1626

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
1019	18	792424129136		encores

Inspection Checklist	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?		✓		(1)
Was ice present?		✓		
Were COC's received/information complete/signed/dated?	✓			
Were sample containers and labels intact?		✓		(2)
Were correct containers used?	✓			
Were correct preservatives used (water only)?	✓			
Were pH ranges acceptable?			✓	
Were VOA samples free of headspace?				
Were samples received within EPA hold times? EE	✓	✓		(3)

Discrepancy/Comments/Other Problems

(1) Ice melted

(2) 0084-SO-092107 COC = 1355 Label = 1335

(3) encores in cooler

Distribution

Name of KEMRON representative	KRA
Client/Company:	CH2MHill
Person Contacted:	Paul Webb / Shane Love
Date contacted:	9/24/07

Resolution/other comments:

per client, log samples. Note temperature anomaly. Note encores prepped >48 hr hold time. KRA 9/26/07

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-04	378523	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:04	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:43	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

Samplenum	Container ID	Products
L0709626-06	378527	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Samplenum	Container ID	Products
L0709626-06	378528	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-07	378531	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

Samplenum	Container ID	Products
L0709626-03	378520	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:03	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:43	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

Samplenum	Container ID	Products
L0709626-07	378532	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:04	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:42	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

Samplenum	Container ID	Products
L0709626-03	378519	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-07	378530	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Samplenum	Container ID	Products
L0709626-01	378514	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:03	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:37	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:43	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

Samplenum	Container ID	Products
L0709626-05	378525	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-05	378526	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:04	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:43	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

Samplenum	Container ID	Products
L0709626-06	378529	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:04	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:42	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-04	378521	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW
4	ANALYZ	A2	ORG4	10-OCT-2007 11:49	MRT	ERE
5	STORE	VOAY	A2	10-OCT-2007 12:09	ERE	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW
4	ANALYZ	A2	VOAY	10-OCT-2007 12:09	KJW	ERE

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Samplenum	Container ID	Products
L0709626-02	378515	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:12	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:12	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-04	378522	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

Samplenum	Container ID	Products
L0709626-05	378524	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:04	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW
4	ANALYZ	A2	ORG4	10-OCT-2007 11:48	MRT	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-01	378512	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:23	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:12	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:23	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:12	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:23	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:12	RLK	KJW

Samplenum	Container ID	Products
L0709626-02	378516	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-03	378518	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:24	KJW	ERE
3	STORE	VOAY	A2	09-OCT-2007 11:13	RLK	KJW
4	ANALYZ	A2	ORG4	10-OCT-2007 11:48	MRT	ERE

Samplenum	Container ID	Products
L0709626-08	378533	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	ORG4	26-SEP-2007 10:04	BRG	
2	STORE	ORG4	A2	08-OCT-2007 13:10	ERE	MRT

Samplenum	Container ID	Products
L0709626-02	378517	HG PB BA CD CR AG AS-MS SE-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	26-SEP-2007 10:03	BRG	
2	PREP	W1	EXT	27-SEP-2007 06:34	CEB	JKT
3	STORE	EXT	W1	27-SEP-2007 10:38	ERE	CEB
4	ANALYZ	W1	WET	28-SEP-2007 14:36	JDH	JKT
5	ANALYZ	WET	W1	01-OCT-2007 15:43	ERE	JDH
6	STORE	W1	A2	08-OCT-2007 09:10	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0709626
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 08-OCT-2007

Samplenum	Container ID	Products
L0709626-01	378513	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	26-SEP-2007 10:03	BRG	
2	ANALYZ	F1	VOAY	26-SEP-2007 11:23	KJW	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Quick Facts

Microbac®

Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

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FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate –Wide: 18 Divisions, 28 locations across 15 states

Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.) , in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.

Microbac®

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Ohio Valley Division
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Laboratory Report Number: L08050149

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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Katie Barnes	*Team Assistant*	kbarnes@microbac.com
Jacqueline Parsons	*Team Assistant*	jparsons@microbac.com

This report was reviewed on May 29, 2008.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on May 29, 2008.

David Vandenberg - Managing Director

Accrediting authority: Department of Environmental Protection (West Virginia) ID:037
This report contains a total of 158 pages.

Look closer. Go further. Do more.

Microbac REPORT L08050149
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08050149

CHAIN OF CUSTODY: The chain of custody number was 82108.

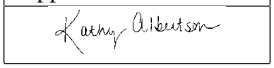
SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 3 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L08050149-01	0139-SO01-050708
L08050149-02	0137-SO01-050708
L08050149-03	0138-SO01-050708
L08050149-04	0138-SO01-050708 D
L08050149-05	0145-SO01-050708
L08050149-06	0141-SO01-050708
L08050149-07	0141-SO02-050708
L08050149-08	0146-SO01-050708
L08050149-09	TB01-050708

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 12-MAY-08



2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS VOLATILE ORGANICS

Microbac Login No: L08050149

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower control limit in the water alternate source analyzed 04/29/08 on HPMS-8. 1,4-Dioxane exceeded the upper control limit and vinyl acetate was below the lower control limit in the soil alternate source analyzed 05/12/08 on HPMS-9. All other acceptance criteria were met.

Continuing Calibration and Tune: Vinyl acetate was below the lower control limit in the water CCV analyzed 05/09/08 on HPMS-8. 1,4-Dioxane exceeded the upper control limit in the soil CCV analyzed 05/15/08 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: 1,4-Dioxane and vinyl acetate were below the lower advisory limits in the water LCS analyzed 05/09/08 on HPMS-8. All other acceptance criteria were met.

Matrix Spike: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

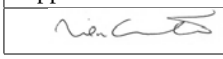
Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: TMB

Approved: 21-MAY-08



LABORATORY REPORT

L08050149

05/23/08 14:33

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0139-SO01-050708	L08050149-01	8260B	1	08-MAY-08
0137-SO01-050708	L08050149-02	8260B	1	08-MAY-08
0138-SO01-050708	L08050149-03	8260B	1	08-MAY-08
0138-SO01-050708 D	L08050149-04	8260B	1	08-MAY-08
0145-SO01-050708	L08050149-05	8260B	1	08-MAY-08
0141-SO01-050708	L08050149-06	8260B	1	08-MAY-08
0141-SO02-050708	L08050149-07	8260B	1	08-MAY-08
0146-SO01-050708	L08050149-08	8260B	1	08-MAY-08
TB01-050708	L08050149-09	8260B	1	08-MAY-08

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-01	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0139-SO01-050708	Prep Method:	5030B	Prep Date:	05/15/2008 14:09
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271288	Analyst:	TMB	Run Date:	05/15/2008 14:09
Collect Date:	05/07/2008 09:10	Dilution:	1	File ID:	9M61891
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.56	0.456
1,1,2,2-Tetrachloroethane	79-34-5		U	4.56	0.456
1,1,2-Trichloroethane	79-00-5		U	4.56	0.456
1,1-Dichloroethane	75-34-3		U	4.56	0.913
1,1-Dichloroethene	75-35-4		U	4.56	0.456
1,2,4-Trichlorobenzene	120-82-1		U	4.56	0.456
1,2-Dichlorobenzene	95-50-1		U	4.56	0.456
1,2-Dichloroethane	107-06-2		U	4.56	0.456
1,2-Dichloropropane	78-87-5		U	4.56	0.456
1,3-Dichlorobenzene	541-73-1		U	4.56	0.456
1,4-Dichlorobenzene	106-46-7		U	4.56	0.456
1,4-Dioxane	123-91-1		U	1550	45.6
2-Butanone	78-93-3		U	22.8	2.28
2-Hexanone	591-78-6		U	9.13	2.28
4-Methyl-2-pentanone	108-10-1		U	9.13	2.28
Acetone	67-64-1		U	91.3	4.56
Acrylonitrile	107-13-1		U	91.3	2.28
Benzene	71-43-2		U	4.56	0.456
Bromodichloromethane	75-27-4		U	4.56	0.456
Bromoform	75-25-2		U	4.56	0.456
Bromomethane	74-83-9		U	9.13	0.913
Carbon disulfide	75-15-0		U	4.56	0.456
Carbon tetrachloride	56-23-5		U	4.56	0.456
Chlorobenzene	108-90-7		U	4.56	0.456
Dibromochloromethane	124-48-1		U	4.56	0.456
Chloroethane	75-00-3		U	9.13	0.913
Chloroform	67-66-3		U	4.56	0.456
Chloromethane	74-87-3		U	9.13	1.83
cis-1,2-Dichloroethene	156-59-2		U	4.56	0.456
cis-1,3-Dichloropropene	10061-01-5		U	4.56	0.456
Ethylbenzene	100-41-4		U	4.56	0.456
Methylene chloride	75-09-2		U	4.56	0.913
Methyltert-butyl ether	1634-04-4		U	9.13	0.456
Styrene	100-42-5		U	4.56	0.456
Tetrachloroethene	127-18-4		U	4.56	0.456
Toluene	108-88-3		U	4.56	0.456
trans-1,2-Dichloroethene	156-60-5		U	4.56	0.456
trans-1,3-Dichloropropene	10061-02-6		U	4.56	0.456
Trichloroethene	79-01-6		U	4.56	0.456
Vinyl acetate	108-05-4		U	9.13	0.913
Vinyl chloride	75-01-4		U	9.13	0.913
Xylenes	1330-20-7		U	9.13	0.456

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	92.3	70	121	
4-Bromofluorobenzene	95.9	59	113	
Dibromofluoromethane	102	65	135	
Toluene-d8	99.3	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-02**
Client ID: **0137-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271288**
Collect Date: **05/07/2008 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/15/2008 14:39**
Cal Date: **05/12/2008 18:39**
Run Date: **05/15/2008 14:39**
File ID: **9M61892**
Percent Solid: **89.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.30	0.430
1,1,2,2-Tetrachloroethane	79-34-5		U	4.30	0.430
1,1,2-Trichloroethane	79-00-5		U	4.30	0.430
1,1-Dichloroethane	75-34-3		U	4.30	0.859
1,1-Dichloroethene	75-35-4		U	4.30	0.430
1,2,4-Trichlorobenzene	120-82-1		U	4.30	0.430
1,2-Dichlorobenzene	95-50-1		U	4.30	0.430
1,2-Dichloroethane	107-06-2		U	4.30	0.430
1,2-Dichloropropane	78-87-5		U	4.30	0.430
1,3-Dichlorobenzene	541-73-1		U	4.30	0.430
1,4-Dichlorobenzene	106-46-7		U	4.30	0.430
1,4-Dioxane	123-91-1		U	1460	43.0
2-Butanone	78-93-3		U	21.5	2.15
2-Hexanone	591-78-6		U	8.59	2.15
4-Methyl-2-pentanone	108-10-1		U	8.59	2.15
Acetone	67-64-1		U	85.9	4.30
Acrylonitrile	107-13-1		U	85.9	2.15
Benzene	71-43-2		U	4.30	0.430
Bromodichloromethane	75-27-4		U	4.30	0.430
Bromoform	75-25-2		U	4.30	0.430
Bromomethane	74-83-9		U	8.59	0.859
Carbon disulfide	75-15-0		U	4.30	0.430
Carbon tetrachloride	56-23-5		U	4.30	0.430
Chlorobenzene	108-90-7		U	4.30	0.430
Dibromochloromethane	124-48-1		U	4.30	0.430
Chloroethane	75-00-3		U	8.59	0.859
Chloroform	67-66-3		U	4.30	0.430
Chloromethane	74-87-3		U	8.59	1.72
cis-1,2-Dichloroethene	156-59-2		U	4.30	0.430
cis-1,3-Dichloropropene	10061-01-5		U	4.30	0.430
Ethylbenzene	100-41-4		U	4.30	0.430
Methylene chloride	75-09-2		U	4.30	0.859
Methyltert-butyl ether	1634-04-4		U	8.59	0.430
Styrene	100-42-5		U	4.30	0.430
Tetrachloroethene	127-18-4		U	4.30	0.430
Toluene	108-88-3		U	4.30	0.430
trans-1,2-Dichloroethene	156-60-5		U	4.30	0.430
trans-1,3-Dichloropropene	10061-02-6		U	4.30	0.430
Trichloroethene	79-01-6		U	4.30	0.430
Vinyl acetate	108-05-4		U	8.59	0.859
Vinyl chloride	75-01-4		U	8.59	0.859
Xylenes	1330-20-7		U	8.59	0.430

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.9	70	121	
4-Bromofluorobenzene	93.5	59	113	
Dibromofluoromethane	99.4	65	135	
Toluene-d8	96.4	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-03**
Client ID: **0138-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271288**
Collect Date: **05/07/2008 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/15/2008 15:10**
Cal Date: **05/12/2008 18:39**
Run Date: **05/15/2008 15:10**
File ID: **9M61893**
Percent Solid: **89.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.22	0.422
1,1,2,2-Tetrachloroethane	79-34-5		U	4.22	0.422
1,1,2-Trichloroethane	79-00-5		U	4.22	0.422
1,1-Dichloroethane	75-34-3		U	4.22	0.845
1,1-Dichloroethene	75-35-4		U	4.22	0.422
1,2,4-Trichlorobenzene	120-82-1		U	4.22	0.422
1,2-Dichlorobenzene	95-50-1		U	4.22	0.422
1,2-Dichloroethane	107-06-2		U	4.22	0.422
1,2-Dichloropropane	78-87-5		U	4.22	0.422
1,3-Dichlorobenzene	541-73-1		U	4.22	0.422
1,4-Dichlorobenzene	106-46-7		U	4.22	0.422
1,4-Dioxane	123-91-1		U	1440	42.2
2-Butanone	78-93-3		U	21.1	2.11
2-Hexanone	591-78-6		U	8.45	2.11
4-Methyl-2-pentanone	108-10-1		U	8.45	2.11
Acetone	67-64-1		U	84.5	4.22
Acrylonitrile	107-13-1		U	84.5	2.11
Benzene	71-43-2		U	4.22	0.422
Bromodichloromethane	75-27-4		U	4.22	0.422
Bromoform	75-25-2		U	4.22	0.422
Bromomethane	74-83-9		U	8.45	0.845
Carbon disulfide	75-15-0		U	4.22	0.422
Carbon tetrachloride	56-23-5		U	4.22	0.422
Chlorobenzene	108-90-7		U	4.22	0.422
Dibromochloromethane	124-48-1		U	4.22	0.422
Chloroethane	75-00-3		U	8.45	0.845
Chloroform	67-66-3		U	4.22	0.422
Chloromethane	74-87-3		U	8.45	1.69
cis-1,2-Dichloroethene	156-59-2		U	4.22	0.422
cis-1,3-Dichloropropene	10061-01-5		U	4.22	0.422
Ethylbenzene	100-41-4		U	4.22	0.422
Methylene chloride	75-09-2		U	4.22	0.845
Methyltert-butyl ether	1634-04-4		U	8.45	0.422
Styrene	100-42-5		U	4.22	0.422
Tetrachloroethene	127-18-4		U	4.22	0.422
Toluene	108-88-3		U	4.22	0.422
trans-1,2-Dichloroethene	156-60-5		U	4.22	0.422
trans-1,3-Dichloropropene	10061-02-6		U	4.22	0.422
Trichloroethene	79-01-6		U	4.22	0.422
Vinyl acetate	108-05-4		U	8.45	0.845
Vinyl chloride	75-01-4		U	8.45	0.845
Xylenes	1330-20-7		U	8.45	0.422

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.9	70	121	
4-Bromofluorobenzene	111	59	113	
Dibromofluoromethane	103	65	135	
Toluene-d8	109	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-04**
Client ID: **0138-SO01-050708 D**
Matrix: **Soil**
Workgroup Number: **WG271288**
Collect Date: **05/07/2008 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/15/2008 15:40**
Cal Date: **05/12/2008 18:39**
Run Date: **05/15/2008 15:40**
File ID: **9M61894**
Percent Solid: **92.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	3.84	0.384
1,1,2,2-Tetrachloroethane	79-34-5		U	3.84	0.384
1,1,2-Trichloroethane	79-00-5		U	3.84	0.384
1,1-Dichloroethane	75-34-3		U	3.84	0.769
1,1-Dichloroethene	75-35-4		U	3.84	0.384
1,2,4-Trichlorobenzene	120-82-1		U	3.84	0.384
1,2-Dichlorobenzene	95-50-1		U	3.84	0.384
1,2-Dichloroethane	107-06-2		U	3.84	0.384
1,2-Dichloropropane	78-87-5		U	3.84	0.384
1,3-Dichlorobenzene	541-73-1		U	3.84	0.384
1,4-Dichlorobenzene	106-46-7		U	3.84	0.384
1,4-Dioxane	123-91-1		U	1310	38.4
2-Butanone	78-93-3		U	19.2	1.92
2-Hexanone	591-78-6		U	7.69	1.92
4-Methyl-2-pentanone	108-10-1		U	7.69	1.92
Acetone	67-64-1		U	76.9	3.84
Acrylonitrile	107-13-1		U	76.9	1.92
Benzene	71-43-2		U	3.84	0.384
Bromodichloromethane	75-27-4		U	3.84	0.384
Bromoform	75-25-2		U	3.84	0.384
Bromomethane	74-83-9		U	7.69	0.769
Carbon disulfide	75-15-0		U	3.84	0.384
Carbon tetrachloride	56-23-5		U	3.84	0.384
Chlorobenzene	108-90-7		U	3.84	0.384
Dibromochloromethane	124-48-1		U	3.84	0.384
Chloroethane	75-00-3		U	7.69	0.769
Chloroform	67-66-3		U	3.84	0.384
Chloromethane	74-87-3		U	7.69	1.54
cis-1,2-Dichloroethene	156-59-2		U	3.84	0.384
cis-1,3-Dichloropropene	10061-01-5		U	3.84	0.384
Ethylbenzene	100-41-4		U	3.84	0.384
Methylene chloride	75-09-2		U	3.84	0.769
Methyltert-butyl ether	1634-04-4		U	7.69	0.384
Styrene	100-42-5		U	3.84	0.384
Tetrachloroethene	127-18-4		U	3.84	0.384
Toluene	108-88-3		U	3.84	0.384
trans-1,2-Dichloroethene	156-60-5		U	3.84	0.384
trans-1,3-Dichloropropene	10061-02-6		U	3.84	0.384
Trichloroethene	79-01-6		U	3.84	0.384
Vinyl acetate	108-05-4		U	7.69	0.769
Vinyl chloride	75-01-4		U	7.69	0.769
Xylenes	1330-20-7		U	7.69	0.384

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.4	70	121	
4-Bromofluorobenzene	112	59	113	
Dibromofluoromethane	105	65	135	
Toluene-d8	110	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-05	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0145-SO01-050708	Prep Method:	5030B	Prep Date:	05/15/2008 16:11
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271288	Analyst:	TMB	Run Date:	05/15/2008 16:11
Collect Date:	05/07/2008 10:50	Dilution:	1	File ID:	9M61895
Sample Tag:	01	Units:	ug/kg	Percent Solid:	86.3

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.33	0.433
1,1,2,2-Tetrachloroethane	79-34-5		U	4.33	0.433
1,1,2-Trichloroethane	79-00-5		U	4.33	0.433
1,1-Dichloroethane	75-34-3		U	4.33	0.867
1,1-Dichloroethene	75-35-4		U	4.33	0.433
1,2,4-Trichlorobenzene	120-82-1		U	4.33	0.433
1,2-Dichlorobenzene	95-50-1		U	4.33	0.433
1,2-Dichloroethane	107-06-2		U	4.33	0.433
1,2-Dichloropropane	78-87-5		U	4.33	0.433
1,3-Dichlorobenzene	541-73-1		U	4.33	0.433
1,4-Dichlorobenzene	106-46-7		U	4.33	0.433
1,4-Dioxane	123-91-1		U	1470	43.3
2-Butanone	78-93-3		U	21.7	2.17
2-Hexanone	591-78-6		U	8.67	2.17
4-Methyl-2-pentanone	108-10-1		U	8.67	2.17
Acetone	67-64-1		U	86.7	4.33
Acrylonitrile	107-13-1		U	86.7	2.17
Benzene	71-43-2		U	4.33	0.433
Bromodichloromethane	75-27-4		U	4.33	0.433
Bromoform	75-25-2		U	4.33	0.433
Bromomethane	74-83-9		U	8.67	0.867
Carbon disulfide	75-15-0		U	4.33	0.433
Carbon tetrachloride	56-23-5		U	4.33	0.433
Chlorobenzene	108-90-7		U	4.33	0.433
Dibromochloromethane	124-48-1		U	4.33	0.433
Chloroethane	75-00-3		U	8.67	0.867
Chloroform	67-66-3		U	4.33	0.433
Chloromethane	74-87-3		U	8.67	1.73
cis-1,2-Dichloroethene	156-59-2		U	4.33	0.433
cis-1,3-Dichloropropene	10061-01-5		U	4.33	0.433
Ethylbenzene	100-41-4		U	4.33	0.433
Methylene chloride	75-09-2		U	4.33	0.867
Methyltert-butyl ether	1634-04-4		U	8.67	0.433
Styrene	100-42-5		U	4.33	0.433
Tetrachloroethene	127-18-4		U	4.33	0.433
Toluene	108-88-3		U	4.33	0.433
trans-1,2-Dichloroethene	156-60-5		U	4.33	0.433
trans-1,3-Dichloropropene	10061-02-6		U	4.33	0.433
Trichloroethene	79-01-6		U	4.33	0.433
Vinyl acetate	108-05-4		U	8.67	0.867
Vinyl chloride	75-01-4		U	8.67	0.867
Xylenes	1330-20-7		U	8.67	0.433

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.7	70	121	
4-Bromofluorobenzene	101	59	113	
Dibromofluoromethane	103	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-06**
Client ID: **0141-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271288**
Collect Date: **05/07/2008 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/15/2008 16:42**
Cal Date: **05/12/2008 18:39**
Run Date: **05/15/2008 16:42**
File ID: **9M61896**
Percent Solid: **85.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.59	0.459
1,1,2,2-Tetrachloroethane	79-34-5		U	4.59	0.459
1,1,2-Trichloroethane	79-00-5		U	4.59	0.459
1,1-Dichloroethane	75-34-3		U	4.59	0.918
1,1-Dichloroethene	75-35-4		U	4.59	0.459
1,2,4-Trichlorobenzene	120-82-1		U	4.59	0.459
1,2-Dichlorobenzene	95-50-1		U	4.59	0.459
1,2-Dichloroethane	107-06-2		U	4.59	0.459
1,2-Dichloropropane	78-87-5		U	4.59	0.459
1,3-Dichlorobenzene	541-73-1		U	4.59	0.459
1,4-Dichlorobenzene	106-46-7		U	4.59	0.459
1,4-Dioxane	123-91-1		U	1560	45.9
2-Butanone	78-93-3		U	23.0	2.30
2-Hexanone	591-78-6		U	9.18	2.30
4-Methyl-2-pentanone	108-10-1		U	9.18	2.30
Acetone	67-64-1		U	91.8	4.59
Acrylonitrile	107-13-1		U	91.8	2.30
Benzene	71-43-2		U	4.59	0.459
Bromodichloromethane	75-27-4		U	4.59	0.459
Bromoform	75-25-2		U	4.59	0.459
Bromomethane	74-83-9		U	9.18	0.918
Carbon disulfide	75-15-0		U	4.59	0.459
Carbon tetrachloride	56-23-5		U	4.59	0.459
Chlorobenzene	108-90-7		U	4.59	0.459
Dibromochloromethane	124-48-1		U	4.59	0.459
Chloroethane	75-00-3		U	9.18	0.918
Chloroform	67-66-3		U	4.59	0.459
Chloromethane	74-87-3		U	9.18	1.84
cis-1,2-Dichloroethene	156-59-2		U	4.59	0.459
cis-1,3-Dichloropropene	10061-01-5		U	4.59	0.459
Ethylbenzene	100-41-4		U	4.59	0.459
Methylene chloride	75-09-2		U	4.59	0.918
Methyltert-butyl ether	1634-04-4		U	9.18	0.459
Styrene	100-42-5		U	4.59	0.459
Tetrachloroethene	127-18-4		U	4.59	0.459
Toluene	108-88-3		U	4.59	0.459
trans-1,2-Dichloroethene	156-60-5		U	4.59	0.459
trans-1,3-Dichloropropene	10061-02-6		U	4.59	0.459
Trichloroethene	79-01-6		U	4.59	0.459
Vinyl acetate	108-05-4		U	9.18	0.918
Vinyl chloride	75-01-4		U	9.18	0.918
Xylenes	1330-20-7		U	9.18	0.459

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	92.3	70	121	
4-Bromofluorobenzene	97.0	59	113	
Dibromofluoromethane	105	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-07**
Client ID: **0141-SO02-050708**
Matrix: **Soil**
Workgroup Number: **WG271288**
Collect Date: **05/07/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/15/2008 17:13**
Cal Date: **05/12/2008 18:39**
Run Date: **05/15/2008 17:13**
File ID: **9M61897**
Percent Solid: **88.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.41	0.441
1,1,2,2-Tetrachloroethane	79-34-5		U	4.41	0.441
1,1,2-Trichloroethane	79-00-5		U	4.41	0.441
1,1-Dichloroethane	75-34-3		U	4.41	0.882
1,1-Dichloroethene	75-35-4		U	4.41	0.441
1,2,4-Trichlorobenzene	120-82-1		U	4.41	0.441
1,2-Dichlorobenzene	95-50-1		U	4.41	0.441
1,2-Dichloroethane	107-06-2		U	4.41	0.441
1,2-Dichloropropane	78-87-5		U	4.41	0.441
1,3-Dichlorobenzene	541-73-1		U	4.41	0.441
1,4-Dichlorobenzene	106-46-7		U	4.41	0.441
1,4-Dioxane	123-91-1		U	1500	44.1
2-Butanone	78-93-3		U	22.0	2.20
2-Hexanone	591-78-6		U	8.82	2.20
4-Methyl-2-pentanone	108-10-1		U	8.82	2.20
Acetone	67-64-1		U	88.2	4.41
Acrylonitrile	107-13-1		U	88.2	2.20
Benzene	71-43-2		U	4.41	0.441
Bromodichloromethane	75-27-4		U	4.41	0.441
Bromoform	75-25-2		U	4.41	0.441
Bromomethane	74-83-9		U	8.82	0.882
Carbon disulfide	75-15-0		U	4.41	0.441
Carbon tetrachloride	56-23-5		U	4.41	0.441
Chlorobenzene	108-90-7		U	4.41	0.441
Dibromochloromethane	124-48-1		U	4.41	0.441
Chloroethane	75-00-3		U	8.82	0.882
Chloroform	67-66-3		U	4.41	0.441
Chloromethane	74-87-3		U	8.82	1.76
cis-1,2-Dichloroethene	156-59-2		U	4.41	0.441
cis-1,3-Dichloropropene	10061-01-5		U	4.41	0.441
Ethylbenzene	100-41-4		U	4.41	0.441
Methylene chloride	75-09-2		U	4.41	0.882
Methyltert-butyl ether	1634-04-4		U	8.82	0.441
Styrene	100-42-5		U	4.41	0.441
Tetrachloroethene	127-18-4		U	4.41	0.441
Toluene	108-88-3		U	4.41	0.441
trans-1,2-Dichloroethene	156-60-5		U	4.41	0.441
trans-1,3-Dichloropropene	10061-02-6		U	4.41	0.441
Trichloroethene	79-01-6		U	4.41	0.441
Vinyl acetate	108-05-4		U	8.82	0.882
Vinyl chloride	75-01-4		U	8.82	0.882
Xylenes	1330-20-7		U	8.82	0.441

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.2	70	121	
4-Bromofluorobenzene	94.7	59	113	
Dibromofluoromethane	101	65	135	
Toluene-d8	97.6	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-08	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0146-SO01-050708	Prep Method:	5030B	Prep Date:	05/15/2008 17:44
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271288	Analyst:	TMB	Run Date:	05/15/2008 17:44
Collect Date:	05/07/2008 14:10	Dilution:	1	File ID:	9M61898
Sample Tag:	01	Units:	ug/kg	Percent Solid:	82.2

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.85	0.485
1,1,2,2-Tetrachloroethane	79-34-5		U	4.85	0.485
1,1,2-Trichloroethane	79-00-5		U	4.85	0.485
1,1-Dichloroethane	75-34-3		U	4.85	0.970
1,1-Dichloroethene	75-35-4		U	4.85	0.485
1,2,4-Trichlorobenzene	120-82-1		U	4.85	0.485
1,2-Dichlorobenzene	95-50-1		U	4.85	0.485
1,2-Dichloroethane	107-06-2		U	4.85	0.485
1,2-Dichloropropane	78-87-5		U	4.85	0.485
1,3-Dichlorobenzene	541-73-1		U	4.85	0.485
1,4-Dichlorobenzene	106-46-7		U	4.85	0.485
1,4-Dioxane	123-91-1		U	1650	48.5
2-Butanone	78-93-3		U	24.3	2.43
2-Hexanone	591-78-6		U	9.70	2.43
4-Methyl-2-pentanone	108-10-1		U	9.70	2.43
Acetone	67-64-1		U	97.0	4.85
Acrylonitrile	107-13-1		U	97.0	2.43
Benzene	71-43-2		U	4.85	0.485
Bromodichloromethane	75-27-4		U	4.85	0.485
Bromoform	75-25-2		U	4.85	0.485
Bromomethane	74-83-9		U	9.70	0.970
Carbon disulfide	75-15-0		U	4.85	0.485
Carbon tetrachloride	56-23-5		U	4.85	0.485
Chlorobenzene	108-90-7		U	4.85	0.485
Dibromochloromethane	124-48-1		U	4.85	0.485
Chloroethane	75-00-3		U	9.70	0.970
Chloroform	67-66-3		U	4.85	0.485
Chloromethane	74-87-3		U	9.70	1.94
cis-1,2-Dichloroethene	156-59-2		U	4.85	0.485
cis-1,3-Dichloropropene	10061-01-5		U	4.85	0.485
Ethylbenzene	100-41-4		U	4.85	0.485
Methylene chloride	75-09-2		U	4.85	0.970
Methyltert-butyl ether	1634-04-4		U	9.70	0.485
Styrene	100-42-5		U	4.85	0.485
Tetrachloroethene	127-18-4		U	4.85	0.485
Toluene	108-88-3		U	4.85	0.485
trans-1,2-Dichloroethene	156-60-5		U	4.85	0.485
trans-1,3-Dichloropropene	10061-02-6		U	4.85	0.485
Trichloroethene	79-01-6		U	4.85	0.485
Vinyl acetate	108-05-4		U	9.70	0.970
Vinyl chloride	75-01-4		U	9.70	0.970
Xylenes	1330-20-7		U	9.70	0.485

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	94.6	70	121	
4-Bromofluorobenzene	106	59	113	
Dibromofluoromethane	107	65	135	
Toluene-d8	107	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-09**
Client ID: **TB01-050708**
Matrix: **Water**
Workgroup Number: **WG270872**
Collect Date: **05/07/2008 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **05/09/2008 15:45**
Cal Date: **04/29/2008 15:06**
Run Date: **05/09/2008 15:45**
File ID: **8M345116**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.2	76	114	
4-Bromofluorobenzene	103	86	115	
Dibromofluoromethane	106	85	115	
Toluene-d8	104	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: MRP Date Prepared/Preserved: 5-9-08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L0805014 9-01	A	5-7-08	0910	0835	NA	NA	6.39	5	—	5	
	B		"	"			6.28	5	—		
	C		"	"			6.09	—	10		
-02	A		0925	0838			6.50	5	—		
	B		"	"			6.36	5	—		
	C		"	"			6.27	—	10		
-03	A		0950	0840			6.62	5	—		
	B		"	"			6.33	5	—		
	C		"	"			6.85	—	10		
-04	A		0950	0842			7.04	5	—		
	B		"	"			6.75	5			
	C		"	"			6.43	—	10		
-05	A		1050	0845			6.68	5	—		
	B		"	"			6.72	5	—		
	C		"	"			6.64	—	10		
-06	A		1330	0848			6.35	5	—		
	B		"	"			6.37	5	—		
	C		"	"			6.02	—	10		
-07	A		1340	0850			6.40	5	—		
	B		"	"			6.23	5	—		
	C		"	"			6.42	—	10		
-08	A		1410	0855			6.27	5	—		
	B		"	"			6.03	5	—		
	C		"	"			6.63	—	10		

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 042908
Analyst1: CMS Analyst2: SMH
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Maintenance Log ID: 23993

Internal Standard: STD25916 Surrogate Standard: STD26089
CCV: STD26064 LCS: STD25940 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG269760;WG269871

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M344806	WG269760-01 50ng BFB STD 8260	NA	1	1	STD25539	04/29/08 07:31
2	8M344807	WG269760-02 50ug/L STD 8260	NA	1	1	STD25998	04/29/08 08:01
3	8M344808	WG269760-02 50ug/L STD 8260	NA	1	1	STD25998	04/29/08 08:33
4	8M344809	SYSTEM BLANK	NA	1	1		04/29/08 09:06
5	8M344810	SYSTEM BLANK	NA	1	1		04/29/08 09:39
6	8M344811	WG269760-02 0.30ug/L STD 8260	NA	1	1	STD26064	04/29/08 10:12
7	8M344812	WG269760-03 0.40ug/L STD 8260	NA	1	1	STD26064	04/29/08 10:44
8	8M344813	WG269760-04 1ug/L STD 8260	NA	1	1	STD26064	04/29/08 11:16
9	8M344814	WG269760-05 2ug/L STD 8260	NA	1	1	STD26064	04/29/08 11:48
10	8M344815	WG269760-06 5ug/L STD 8260	NA	1	1	STD26064	04/29/08 12:20
11	8M344816	WG269760-07 20ug/L STD 8260	NA	1	1	STD26064	04/29/08 12:54
12	8M344817	WG269760-08 50ug/L STD 8260	NA	1	1	STD26064	04/29/08 13:27
13	8M344818	WG269760-09 100ug/L STD 8260	NA	1	1	STD26064	04/29/08 13:59
14	8M344819	WG269760-10 200ug/L STD 8260	NA	1	1	STD26064	04/29/08 14:33
15	8M344820	WG269760-11 300ug/L STD 8260	NA	1	1	STD26064	04/29/08 15:06
16	8M344821	SYSTEM BLANK	NA	1	1		04/29/08 15:38
17	8M344822	SYSTEM BLANK	NA	1	1		04/29/08 16:10
18	8M344823	WG269760-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25940	04/29/08 16:46
19	8M344824	WG269760-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25940	04/29/08 17:28
20	8M344825	WG269870-01 50ng BFB STD 8260	NA	1	1	STD25539	04/29/08 18:29
21	8M344826	WG269870-02 50ug/L STD 8260	NA	1	1	STD25664	04/29/08 18:54
22	8M344827	WG269871-01 VBLK0429 BLANK 8260	NA	1	1		04/29/08 19:28
23	8M344828	WG269871-01 VBLK0429 BLANK 8260	NA	1	1		04/29/08 20:00
24	8M344829	WG269871-02 20ug/L LCS STD 8260	NA	1	1	STD25940	04/29/08 20:32
25	8M344830	WG269871-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25940	04/29/08 21:04
26	8M344831	WG269871-04 FBLK 8260	NA	1	1		04/29/08 21:37
27	8M344832	L08040620-25 A 826-SPE	<2	1	1		04/29/08 22:09
28	8M344833	L08040620-09 A 826-SPE	<2	1	1		04/29/08 22:41
29	8M344834	L08040620-10 A 826-SPE	<2	1	1		04/29/08 23:13
30	8M344835	L08040620-11 A 826-SPE	<2	1	1		04/29/08 23:45
31	8M344836	L08040620-12 A 826-SPE	<2	1	1		04/30/08 00:18
32	8M344837	L08040620-13 A 826-SPE	<2	1	1		04/30/08 00:50
33	8M344838	L08040620-14 A 826-SPE	<2	1	1		04/30/08 01:22
34	8M344839	L08040620-15 A 826-SPE	<2	1	1		04/30/08 01:54

Approved: May 06, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 042908
Analyst1: CMS Analyst2: SMH
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Maintenance Log ID: 23993

Internal Standard: STD25916 Surrogate Standard: STD26089
CCV: STD26064 LCS: STD25940 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG269760;WG269871

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	8M344840	L08040620-16 A 826-SPE	<2	1	1		04/30/08 02:26
36	8M344841	L08040620-17 A 826-SPE	<2	1	1		04/30/08 02:58
37	8M344842	L08040620-18 A 826-SPE	<2	1	1		04/30/08 03:30
38	8M344843	L08040620-19 A 826-SPE	<2	1	1		04/30/08 04:03
39	8M344844	L08040620-20 A 826-SPE	<2	1	1		04/30/08 04:35
40	8M344845	L08040620-21 A 826-SPE	<2	1	1		04/30/08 05:07
41	8M344846	L08040620-22 A 826-SPE	<2	1	1		04/30/08 05:39
42	8M344847	L08040620-23 A 826-SPE	<2	1	1		04/30/08 06:11
43	8M344848	SYSTEM CHECK	NA	1	1		04/30/08 06:43

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X		Check Standard Failure	
File ID: 8M344807				
	DNR			
3	X		Check Standard Failure	
File ID: 8M344808				
	DNR-RR CURVE			
18	X			
File ID: 8M344823				
	DNR			
22	X		Carry-over contamination	
File ID: 8M344827				
	DNR			

Approved: May 06, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 050908
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 24131

Internal Standard: STD26115 Surrogate Standard: STD26089
CCV: STD26262 LCS: STD26208 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG270872

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M345110	SYSTEM CHECK	NA	1	1		05/09/08 12:35
2	8M345111	WG270871-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/09/08 13:08
3	8M345112	WG270871-02 50ug/L STD 8260	NA	1	1	STD26262	05/09/08 13:35
4	8M345113	WG270872-01 VBLK0509 BLANK 8260	NA	1	1		05/09/08 14:08
5	8M345114	WG270872-01 VBLK0509 BLANK 8260	NA	1	1		05/09/08 14:40
6	8M345115	WG270872-02 20ug/L LCS STD 8260	NA	1	1	STD26208	05/09/08 15:13
7	8M345116	L08050149-09 A 826-SPE	<2	1	1		05/09/08 15:45
8	8M345117	L08050131-10 A 826-SPE	<2	1	1		05/09/08 16:18
9	8M345118	L08050152-15 A 826-SPE	<2	1	1		05/09/08 16:50
10	8M345119	L08050131-08 A 826-SPE	<2	1	1		05/09/08 17:22
11	8M345120	L08050152-01 A 826-SPE	<2	1	1		05/09/08 17:55
12	8M345121	L08050152-02 MS A 826-SPE	<2	1	1	STD26208	05/09/08 18:27
13	8M345122	L08050152-03 MSD A 826-SPE	<2	1	1	STD26208	05/09/08 18:59
14	8M345123	L08050152-04 A 826-SPE	<2	1	1		05/09/08 19:32
15	8M345124	L08050152-05 A 826-SPE	<2	1	1		05/09/08 20:04
16	8M345125	L08050152-06 A 10X 826-SPE	<2	1	10		05/09/08 20:36
17	8M345126	L08050131-05 A 826-SPE	<2	1	1		05/09/08 21:08
18	8M345127	L08050131-09 A 50X 826-SPE	<2	1	50		05/09/08 21:40
19	8M345128	L08050131-07 A 2.5X 826-SPE	<2	1	2.5		05/09/08 22:12
20	8M345129	L08050131-02 A 20X 826-SPE	<2	1	20		05/09/08 22:44
21	8M345130	L08050131-03 A 20X 826-SPE	<2	1	20		05/09/08 23:17
22	8M345131	L08050131-01 A 826-SPE	<2	1	1		05/09/08 23:49
23	8M345132	L08050131-04 A 826-SPE	<2	1	1		05/10/08 00:21
24	8M345133	L08050131-06 A 826-SPE	<2	1	1		05/10/08 00:53
25	8M345134	SYSTEM BLANK	NA	1	1		05/10/08 01:25
26	8M345135	SYSTEM BLANK	NA	1	1		05/10/08 01:57
27	8M345136	SYSTEM BLANK	NA	1	1		05/10/08 02:29
28	8M345137	L08040726-01 A 826-REF-BLK	<2	1	1		05/10/08 03:02
29	8M345138	L08040726-02 A 826-REF-BLK	<2	1	1		05/10/08 03:34
30	8M345139	L08040726-03 A 826-REF-BLK	<2	1	1		05/10/08 04:06
31	8M345140	L08040726-04 A 826-REF-BLK	<2	1	1		05/10/08 04:38
32	8M345141	L08040726-05 A 826-REF-BLK	<2	1	1		05/10/08 05:10

Approved: May 15, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 050908
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 24131

Internal Standard: STD26115 Surrogate Standard: STD26089
CCV: STD26262 LCS: STD26208 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG270872

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X			
File ID: 8M345113				
17	X	20	Over Calibration Range	VC, CIS12DCE, BEN, CB
File ID: 8M345126				
18	X	20	Analyzed too dilute	
File ID: 8M345127				
20	X	2.5	Analyzed too dilute	
File ID: 8M345129				
	D1			
21	X	2.5	Analyzed too dilute	
File ID: 8M345130				
	D1			
23	X	25	Over Calibration Range	VC, CIS12DCE, CB
File ID: 8M345132				
24	X	20	Over Calibration Range	VC, CIS12DCE
File ID: 8M345133				

Approved: May 15, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61788	system blank	NA	7	1		05/12/08 07:18
2	9M61789	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:17
3	9M61790	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:37
4	9M61792	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 09:35
5	9M61793	WG270933-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26262	05/12/08 10:06
6	9M61794	SYSTEM CHECK	NA	7	1		05/12/08 10:40
7	9M61795	WG270933-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/12/08 11:07
8	9M61797	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 12:03
9	9M61798	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 12:43
10	9M61799	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 13:24
11	9M61800	SYSTEM BLANK	NA	7	1		05/12/08 13:59
12	9M61801	WG270933-03 0.5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 14:31
13	9M61802	WG270933-04 1ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:03
14	9M61803	WG270933-05 2ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:34
15	9M61804	WG270933-06 5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:05
16	9M61805	WG270933-07 20ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:36
17	9M61806	WG270933-08 50ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:06
18	9M61807	WG270933-09 100ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:37
19	9M61808	WG270933-10 200ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:08
20	9M61809	WG270933-11 300ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:39
21	9M61810	SYSTEM BLANK	NA	7	1		05/12/08 19:10
22	9M61811	SYSTEM BLANK	NA	7	1		05/12/08 19:41
23	9M61812	WG270933-12 20ug/Kg ALT SRC STD 826	NA	7	1	STD26314	05/12/08 20:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M61797				
	DNR.			
9				
File ID: 9M61798				
	DNR.			
10				

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61799				
	DNR. Had to run a curve.			
11				
File ID: 9M61800				
	DNR.			

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051508
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24188

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26310; STD26411 LCS: STD26314; STD26340 MS/MSD: STD26314

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271288; WG271409

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
47	9M61877	WG271287-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/15/08 07:05
1	9M61878	WG271287-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26310	05/15/08 07:28
2	9M61879	WG271288-01 VBLK0515 BLANK 8260	NA	7	1		05/15/08 08:00
3	9M61880	WG271288-02 20ug/Kg LCS STD 8260	NA	7	1	STD26314	05/15/08 08:31
4	9M61881	L08050173-02 A 826-SPE	NA	7	1		05/15/08 09:01
5	9M61882	L08050173-04 A MS 826-SPE	NA	7	1	STD26314	05/15/08 09:32
6	9M61883	L08050173-06 A MSD 826-SPE	NA	7	1	STD26314	05/15/08 10:03
7	9M61884	L08050173-08 A 826-SPE	NA	7	1		05/15/08 10:34
8	9M61885	L08050173-10 A MS 826-SPE	NA	7	1	STD26314	05/15/08 11:05
9	9M61886	L08050173-12 A MSD 826-SPE	NA	7	1	STD26314	05/15/08 11:36
10	9M61887	L08050173-14 A 826-SPE	NA	7	1		05/15/08 12:07
11	9M61888	L08050173-16 A 826-SPE	NA	7	1		05/15/08 12:37
12	9M61889	L08050173-18 A 826-SPE	NA	7	1		05/15/08 13:08
13	9M61890	L08050173-20 A 826-SPE	NA	7	1		05/15/08 13:38
14	9M61891	L08050149-01 A 826-SPE	NA	7	1		05/15/08 14:09
15	9M61892	L08050149-02 A 826-SPE	NA	7	1		05/15/08 14:39
16	9M61893	L08050149-03 A 826-SPE	NA	7	1		05/15/08 15:10
17	9M61894	L08050149-04 B 826-SPE	NA	7	1		05/15/08 15:40
18	9M61895	L08050149-05 A 826-SPE	NA	7	1		05/15/08 16:11
19	9M61896	L08050149-06 A 826-SPE	NA	7	1		05/15/08 16:42
20	9M61897	L08050149-07 A 826-SPE	NA	7	1		05/15/08 17:13
21	9M61898	L08050149-08 A 826-SPE	NA	7	1		05/15/08 17:44
22	9M61901	WG271409-01 VBLK0515 BLANK 8260	NA	7	1		05/15/08 19:36
23	9M61902	WG271409-01 20ug/L LCS STD 8260	NA	7	1	STD26340	05/15/08 20:07
24	9M61903	WG271408-01 50ng BFB STD 8260	NA	1	1	STD26149	05/15/08 20:33
25	9M61904	WG271408-01 50ng BFB STD 8260	NA	1	1	STD26149	05/15/08 21:02
48	9M61905	WG271408-02 50ug/L STD 8260	NA	1	1	STD26411	05/15/08 21:27
26	9M61906	WG271409-01 VBLK0515 BLANK 8260	NA	7	1		05/15/08 21:58
27	9M61907	WG271409-02 20ug/L LCS STD 8260	NA	7	1	STD26340	05/15/08 22:29
28	9M61908	WG271409-03 20ug/L LCSDUP STD 8260	NA	7	1	STD26340	05/15/08 22:59
29	9M61909	L0805173-02 B A1 826-SPE	NA	7	1		05/15/08 23:31
30	9M61910	L0805192-02 A 826-SPE	NA	7	1		05/16/08 00:02
31	9M61911	L0805192-03 A 826-SPE	NA	7	1		05/16/08 00:33
32	9M61912	L0805192-04 A 826-SPE	NA	7	1		05/16/08 01:04

Approved: May 16, 2008

Microbac

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051508
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24188

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26310; STD26411 LCS: STD26314; STD26340 MS/MSD: STD26314

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271288; WG271409

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
33	9M61913	L0805192-05 A 826-SPE	NA	7	1		05/16/08 01:35
34	9M61914	L0805192-06 A 826-SPE	NA	7	1		05/16/08 02:06
35	9M61915	L0805192-07 A 826-SPE	NA	7	1		05/16/08 02:38
36	9M61916	L0805192-08 A 826-SPE	NA	7	1		05/16/08 03:09
37	9M61917	L0805192-09 A 826-SPE	NA	7	1		05/16/08 03:40
38	9M61918	L0805192-10 A 826-SPE	NA	7	1		05/16/08 04:11
39	9M61919	L0805192-11 A 826-SPE	NA	7	1		05/16/08 04:42
40	9M61920	L0805192-12 A 826-SPE	NA	7	1		05/16/08 05:14
41	9M61921	L0805192-13 A 826-SPE	NA	7	1		05/16/08 05:44
42	9M61922	L0805192-14 A 826-SPE	NA	7	1		05/16/08 06:16
43	9M61923	L0805192-16 A 826-SPE	NA	7	1		05/16/08 06:47
44	9M61924	L0805192-17 A 826-SPE	NA	7	1		05/16/08 07:19
45	9M61925	L0805192-19 A 826-SPE	NA	7	1		05/16/08 07:54
46	9M61926	L0805192-20 A 826-SPE	NA	7	1		05/16/08 08:25

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X	1	Internal standard and surrogate standard failure	
File ID: 9M61881				
17				
File ID: 9M61894				
	The A vial was cracked and when it thawed it leaked.			
22	X			
File ID: 9M61901				
	Do not report. Had to restart. C compound was out and didn't catch it until after the LCS ran.			
23	X			
File ID: 9M61902				
	Do not report. Had to restart. C compound was out and didn't catch it until after the LCS ran.			
24	X			
File ID: 9M61903				
	Tune failed. Do not report.			
36	X	1	Internal standard failure	
File ID: 9M61916				

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051508
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24188

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26310; STD26411 LCS: STD26314; STD26340 MS/MSD: STD26314

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271288; WG271409

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
40	X	1	Internal standard failure	
File ID: 9M61920				
	Vial leaked. Do not report.			
41	X	1	Internal standard failure	
File ID: 9M61921				

Approved: May 16, 2008

Microbac Laboratories Inc.

Data Checklist

Date: 29-APR-2008
Analyst: CMS
Analyst: SMH
Method: 8260B/624
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 22004
Analytical Workgroups: WG269760;WG269871

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
05-MAY-2008

Secondary Reviewer:
06-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-07-2008 08:49:44

Microbac Laboratories Inc.

Data Checklist

Date: 09-MAY-2008
Analyst: ASP
Analyst: CMS
Method: 8260B
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 22170
Analytical Workgroups: WG270872

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
15-MAY-2008

Secondary Reviewer:
15-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-15-2008 14:26:29

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22226
Analytical Workgroups: WG270933

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 13:40:10

Microbac Laboratories Inc.

Data Checklist

Date: 15-MAY-2008
Analyst: TMB
Analyst: FJB
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22238
Analytical Workgroups: WG271288; WG271409

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008
Tiffany Bailey

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 17:00:38

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG270872

Login Number: L08050149

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TB01-050708	05/07/08	05/08/08	05/09/08	14	2.66	05/09/08	14	2.66	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
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Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG271288

Login Number: L08050149

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0139-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.21	05/15/08	14	8.21	
0141-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.13	05/15/08	14	8.13	
0138-SO01-050708 D	05/07/08	05/08/08	05/15/08	14	8.24	05/15/08	14	8.24	
0137-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.22	05/15/08	14	8.22	
0146-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.15	05/15/08	14	8.15	
0141-SO02-050708	05/07/08	05/08/08	05/15/08	14	8.15	05/15/08	14	8.15	
0145-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.22	05/15/08	14	8.22	
0138-SO01-050708	05/07/08	05/08/08	05/15/08	14	8.22	05/15/08	14	8.22	

* EXT = SEE PROJECT QAPP REQUIREMENTS
*ANAL = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
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Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050149
Instrument Id: HPMS8
Workgroup (AAB#): WG270872

Method: 8260
CAL ID: HPMS8-29-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08050149-09	1.00	01	96.2	106	103	104
WG270872-01	1.00	01	98.3	106	101	104
WG270872-02	1.00	01	102	109	103	103

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1097821
Report generated: 05/20/2008 14:18

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050149
Instrument Id: HPMS9
Workgroup (AAB#): WG271288

Method: 8260
CAL ID: HPMS9-12-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050149-01	1.00	01	92.3	102	95.9	99.3
L08050149-02	1.00	01	89.9	99.4	93.5	96.4
L08050149-03	1.00	01	89.9	103	111	109
L08050149-04	1.00	01	90.4	105	112	110
L08050149-05	1.00	01	89.7	103	101	103
L08050149-06	1.00	01	92.3	105	97.0	103
L08050149-07	1.00	01	89.2	101	94.7	97.6
L08050149-08	1.00	01	94.6	107	106	107
WG271288-01	1.00	01	87.3	98.3	96.0	99.2
WG271288-02	1.00	01	89.6	103	96.2	102

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
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Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050149	Work Group:	WG270872
Blank File ID:	8M345114	Blank Sample ID:	WG270872-01
Prep Date:	05/09/08 14:40	Instrument ID:	HPMS8
Analyzed Date:	05/09/08 14:40	Method:	8260B
Analyst:	CMS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG270872-02	8M345115	05/09/08 15:13	01
TB01-050708	L08050149-09	8M345116	05/09/08 15:45	01

Report Name: BLANK_SUMMARY
PDF File ID: 1097814
Report generated 05/20/2008 14:18

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050149
Work Group: WG271288
Blank File ID: 9M61879
Blank Sample ID: WG271288-01
Prep Date: 05/15/08 08:00
Instrument ID: HPMS9
Analyzed Date: 05/15/08 08:00
Method: 8260B
Analyst: TMB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271288-02	9M61880	05/15/08 08:31	01
0139-SO01-050708	L08050149-01	9M61891	05/15/08 14:09	01
0137-SO01-050708	L08050149-02	9M61892	05/15/08 14:39	01
0138-SO01-050708	L08050149-03	9M61893	05/15/08 15:10	01
0138-SO01-050708 D	L08050149-04	9M61894	05/15/08 15:40	01
0145-SO01-050708	L08050149-05	9M61895	05/15/08 16:11	01
0141-SO01-050708	L08050149-06	9M61896	05/15/08 16:42	01
0141-SO02-050708	L08050149-07	9M61897	05/15/08 17:13	01
0146-SO01-050708	L08050149-08	9M61898	05/15/08 17:44	01

Report Name: BLANK_SUMMARY
PDF File ID: 1097814
Report generated 05/20/2008 14:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050149 Prep Date: 05/09/08 14:40 Sample ID: WG270872-01
Instrument ID: HPMS8 Run Date: 05/09/08 14:40 Prep Method: 5030B
File ID: 8M345114 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG270872 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-29-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050149 Prep Date: 05/09/08 14:40 Sample ID: WG270872-01
Instrument ID: HPMS8 Run Date: 05/09/08 14:40 Prep Method: 5030B
File ID: 8M345114 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG270872 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-29-APR-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	98.3	76 - 114	PASS
4-Bromofluorobenzene	101	86 - 115	PASS
Dibromofluoromethane	106	85 - 115	PASS
Toluene-d8	104	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050149 Prep Date: 05/15/08 08:00 Sample ID: WG271288-01
Instrument ID: HPMS9 Run Date: 05/15/08 08:00 Prep Method: 5030B
File ID: 9M61879 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG271288 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050149 Prep Date: 05/15/08 08:00 Sample ID: WG271288-01
Instrument ID: HPMS9 Run Date: 05/15/08 08:00 Prep Method: 5030B
File ID: 9M61879 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG271288 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	87.3	70 - 121	PASS
4-Bromofluorobenzene	96.0	59 - 113	PASS
Dibromofluoromethane	98.3	65 - 135	PASS
Toluene-d8	99.2	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

Report Name:BLANK
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/09/2008 Sample ID: WG270872-02
Instrument ID: HPMS8 Run Time: 15:13 Prep Method: 5030B
File ID: 8M345115 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG270872 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD26208 Cal ID: HPMS8-29-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	22.3	111	67 - 132	
1,1,2,2-Tetrachloroethane	20.0	20.1	101	63 - 128	
1,1,2-Trichloroethane	20.0	20.8	104	70 - 125	
1,1-Dichloroethane	20.0	21.8	109	67 - 133	
1,1-Dichloroethene	20.0	19.5	97.3	68 - 130	
1,2,4-Trichlorobenzene	20.0	22.1	111	65 - 134	
1,2-Dichlorobenzene	20.0	21.3	107	71 - 122	
1,2-Dichloroethane	20.0	20.9	104	69 - 132	
1,2-Dichloropropane	20.0	21.4	107	75 - 125	
1,3-Dichlorobenzene	20.0	21.2	106	75 - 124	
1,4-Dichlorobenzene	20.0	20.0	99.9	74 - 123	
1,4-Dioxane	200	134	66.9	70 - 130	*
2-Butanone	20.0	21.0	105	49 - 136	
2-Hexanone	20.0	18.3	91.5	65 - 135	
4-Methyl-2-pentanone	20.0	19.4	97.2	58 - 134	
Acetone	20.0	21.3	107	30 - 135	
Acrylonitrile	20.0	20.8	104	60 - 135	
Benzene	20.0	22.1	110	81 - 122	
Bromodichloromethane	20.0	22.4	112	76 - 121	
Bromoform	20.0	20.7	103	69 - 128	
Bromomethane	20.0	20.0	99.9	53 - 141	
Carbon disulfide	20.0	19.2	95.9	70 - 130	
Carbon tetrachloride	20.0	20.3	102	66 - 138	
Chlorobenzene	20.0	21.0	105	81 - 122	
Dibromochloromethane	20.0	18.6	93.1	66 - 133	
Chloroethane	20.0	19.9	99.6	58 - 133	
Chloroform	20.0	21.5	107	69 - 128	
Chloromethane	20.0	20.6	103	56 - 131	
cis-1,2-Dichloroethene	20.0	22.6	113	72 - 126	
cis-1,3-Dichloropropene	20.0	21.8	109	69 - 131	
Ethylbenzene	20.0	22.7	114	73 - 127	
Methylene chloride	20.0	19.0	95.1	63 - 137	
Methyltert-butyl ether	20.0	21.1	106	65 - 123	
Styrene	20.0	19.5	97.7	65 - 134	
Tetrachloroethene	20.0	19.3	96.7	66 - 128	
Toluene	20.0	22.3	112	77 - 122	
trans-1,2-Dichloroethene	20.0	22.2	111	63 - 137	
trans-1,3-Dichloropropene	20.0	19.3	96.6	59 - 135	
Trichloroethene	20.0	19.6	98.1	70 - 127	
Vinyl acetate	20.0	10.4	51.9	65 - 130	*
Vinyl chloride	20.0	20.5	102	50 - 134	

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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/09/2008 Sample ID: WG270872-02
Instrument ID: HPMS8 Run Time: 15:13 Prep Method: 5030B
File ID: 8M345115 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG270872 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD26208 Cal ID: HPMS8-29-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	68.4	114	75 - 120	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	102	76 - 114	PASS
4-Bromofluorobenzene	103	86 - 115	PASS
Dibromofluoromethane	109	85 - 115	PASS
Toluene-d8	103	88 - 110	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/15/2008 Sample ID: WG271288-02
Instrument ID: HPMS9 Run Time: 08:31 Prep Method: 5030B
File ID: 9M61880 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG271288 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26314 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	21.4	107	68 - 130	
1,1,2,2-Tetrachloroethane	20.0	19.5	97.4	59 - 140	
1,1,2-Trichloroethane	20.0	20.7	103	62 - 127	
1,1-Dichloroethane	20.0	19.8	98.8	73 - 125	
1,1-Dichloroethene	20.0	20.7	103	65 - 136	
1,2,4-Trichlorobenzene	20.0	21.5	108	65 - 131	
1,2-Dichlorobenzene	20.0	20.9	105	74 - 120	
1,2-Dichloroethane	20.0	18.7	93.5	72 - 137	
1,2-Dichloropropane	20.0	20.3	101	71 - 120	
1,3-Dichlorobenzene	20.0	21.2	106	72 - 124	
1,4-Dichlorobenzene	20.0	20.1	101	72 - 125	
1,4-Dioxane	200	208	104	50 - 150	
2-Butanone	20.0	20.1	100	40 - 135	
2-Hexanone	20.0	17.5	87.4	50 - 140	
4-Methyl-2-pentanone	20.0	19.2	96.0	50 - 140	
Acetone	20.0	17.5	87.7	40 - 141	
Acrylonitrile	20.0	18.6	93.0	60 - 140	
Benzene	20.0	21.1	105	73 - 126	
Bromodichloromethane	20.0	21.2	106	72 - 128	
Bromoform	20.0	22.2	111	60 - 137	
Bromomethane	20.0	24.5	123	45 - 141	
Carbon disulfide	20.0	18.3	91.6	65 - 135	
Carbon tetrachloride	20.0	23.2	116	67 - 133	
Chlorobenzene	20.0	20.8	104	75 - 123	
Dibromochloromethane	20.0	21.5	107	66 - 130	
Chloroethane	20.0	21.5	107	41 - 141	
Chloroform	20.0	20.4	102	72 - 124	
Chloromethane	20.0	19.6	98.2	51 - 129	
cis-1,2-Dichloroethene	20.0	22.7	113	67 - 125	
cis-1,3-Dichloropropene	20.0	20.5	102	72 - 126	
Ethylbenzene	20.0	22.4	112	74 - 127	
Methylene chloride	20.0	19.8	98.8	63 - 137	
Methyltert-butyl ether	20.0	21.3	107	50 - 135	
Styrene	20.0	20.3	101	74 - 128	
Tetrachloroethene	20.0	22.1	111	67 - 139	
Toluene	20.0	21.7	109	71 - 127	
trans-1,2-Dichloroethene	20.0	22.2	111	66 - 134	
trans-1,3-Dichloropropene	20.0	18.6	92.8	65 - 127	
Trichloroethene	20.0	23.4	117	77 - 124	
Vinyl acetate	20.0	17.0	84.9	55 - 130	
Vinyl chloride	20.0	23.2	116	58 - 126	

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/15/2008 Sample ID: WG271288-02
Instrument ID: HPMS9 Run Time: 08:31 Prep Method: 5030B
File ID: 9M61880 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG271288 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26314 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	65.2	109	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	89.6	70 - 121	PASS
4-Bromofluorobenzene	96.2	59 - 113	PASS
Dibromofluoromethane	103	65 - 135	PASS
Toluene-d8	102	86 - 138	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1093492
Report generated: 05/20/2008 14:18

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050149
Instrument: HPMS8
Analyst: CMS
Workgroup: WG269760

Tune ID: WG269760-01
Run Date: 04/29/2008
Run Time: 07:31
File ID: 8M344806
Cal ID: HPMS8-29-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.8	14178	PASS
75.0	95.0	30.0	60.0	51.3	36821	PASS
95.0	95.0	100	100	100	71738	PASS
96.0	95.0	5.00	9.00	7.05	5056	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	70.2	50389	PASS
175	174	5.00	9.00	7.52	3787	PASS
176	174	95.0	101	101	50752	PASS
177	176	5.00	9.00	6.78	3441	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG269760-02	STD	01	04/29/2008 10:12	
WG269760-03	STD	01	04/29/2008 10:44	
WG269760-04	STD	01	04/29/2008 11:16	
WG269760-05	STD	01	04/29/2008 11:48	
WG269760-06	STD	01	04/29/2008 12:20	
WG269760-07	STD	01	04/29/2008 12:54	
WG269760-08	STD-CCV	01	04/29/2008 13:27	
WG269760-09	STD	01	04/29/2008 13:59	
WG269760-10	STD	01	04/29/2008 14:33	
WG269760-11	STD	01	04/29/2008 15:06	
WG269760-12	SSCV	01	04/29/2008 17:28	

* Sample past 12 hour tune limit

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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050149
Instrument: HPMS8
Analyst: CMS
Workgroup: WG270871

Tune ID: WG270871-01
Run Date: 05/09/2008
Run Time: 13:08
File ID: 8M345111
Cal ID: HPMS8-29-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.0	12919	PASS
75.0	95.0	30.0	60.0	53.4	31456	PASS
95.0	95.0	100	100	100	58856	PASS
96.0	95.0	5.00	9.00	6.48	3815	PASS
173	174	0	2.00	0.323	134	PASS
174	95.0	50.0	100	70.5	41466	PASS
175	174	5.00	9.00	7.57	3137	PASS
176	174	95.0	101	99.4	41202	PASS
177	176	5.00	9.00	6.59	2715	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270871-02	CCV	01	05/09/2008 13:35	
WG270872-01	BLANK	01	05/09/2008 14:40	
WG270872-02	LCS	01	05/09/2008 15:13	
L08050149-09	TB01-050708	01	05/09/2008 15:45	
WG270872-03	REF	01	05/09/2008 17:55	
WG270872-04	MS	01	05/09/2008 18:27	
WG270872-05	MSD	01	05/09/2008 18:59	

* Sample past 12 hour tune limit

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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050149
Instrument: HPMS9
Analyst: TMB
Workgroup: WG270933

Tune ID: WG270933-01
Run Date: 05/12/2008
Run Time: 11:07
File ID: 9M61795
Cal ID: HPMS9-02-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.0	3552	PASS
75.0	95.0	30.0	60.0	54.5	8072	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.47	959	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	60.9	9034	PASS
175	174	5.00	9.00	8.38	757	PASS
176	174	95.0	101	95.6	8636	PASS
177	176	5.00	9.00	5.69	491	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270933-03	STD-S	01	05/12/2008 14:31	
WG270933-04	STD-S	01	05/12/2008 15:03	
WG270933-05	STD-S	01	05/12/2008 15:34	
WG270933-06	STD-S	01	05/12/2008 16:05	
WG270933-07	STD-S	01	05/12/2008 16:36	
WG270933-08	STD-CCV-S	01	05/12/2008 17:06	
WG270933-09	STD-S	01	05/12/2008 17:37	
WG270933-10	STD-S	01	05/12/2008 18:08	
WG270933-11	STD-S	01	05/12/2008 18:39	
WG270933-12	SSCV-S	01	05/12/2008 20:12	

* Sample past 12 hour tune limit

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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050149
Instrument: HPMS9
Analyst: TMB
Workgroup: WG271287

Tune ID: WG271287-01
Run Date: 05/15/2008
Run Time: 07:05
File ID: 9M61877
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.3	5909	PASS
75.0	95.0	30.0	60.0	53.1	14083	PASS
95.0	95.0	100	100	100	26518	PASS
96.0	95.0	5.00	9.00	6.83	1811	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	68.4	18142	PASS
175	174	5.00	9.00	6.95	1260	PASS
176	174	95.0	101	95.1	17253	PASS
177	176	5.00	9.00	6.42	1107	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271287-02	CCV-S	01	05/15/2008 07:28	
WG271288-01	BLANK	01	05/15/2008 08:00	
WG271288-02	LCS	01	05/15/2008 08:31	
WG271288-03	REF	01	05/15/2008 09:01	
WG271288-04	MS	01	05/15/2008 09:32	
WG271288-05	MSD	01	05/15/2008 10:03	
WG271288-06	REF	01	05/15/2008 10:34	
WG271288-07	MS	01	05/15/2008 11:05	
WG271288-08	MSD	01	05/15/2008 11:36	
L08050149-01	0139-SO01-050708	01	05/15/2008 14:09	
L08050149-02	0137-SO01-050708	01	05/15/2008 14:39	
L08050149-03	0138-SO01-050708	01	05/15/2008 15:10	
L08050149-04	0138-SO01-050708 D	01	05/15/2008 15:40	
L08050149-05	0145-SO01-050708	01	05/15/2008 16:11	
L08050149-06	0141-SO01-050708	01	05/15/2008 16:42	
L08050149-07	0141-SO02-050708	01	05/15/2008 17:13	
L08050149-08	0146-SO01-050708	01	05/15/2008 17:44	

* Sample past 12 hour tune limit

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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050149 **Instrument ID:** HPMS8
Analytical Method: 8260B **Initial Calibration Date:** 29-APR-08 15:06
ICAL Workgroup: WG269760 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3231	25.0	1.00	
1,2-Dichloropropane	CCC	0.1899	8.75		
Chloroform	CCC	0.4220	6.29		
Ethylbenzene	CCC	0.4044	14.3		
Toluene	CCC	1.107	13.0		
Vinyl Chloride	CCC	0.2007	14.3		
1,1,2,2-Tetrachloroethane	SPCC	0.3870	3.81		
1,1-Dichloroethane	SPCC	0.3901	8.79		
Bromoform	SPCC	0.1296	13.9		
Chlorobenzene	SPCC	0.7661	7.28		
Chloromethane	SPCC	0.2412	14.9		
1,1,1-Trichloroethane		0.3790	13.7		
1,1,2-Trichloroethane		0.1782	3.26		
1,2,4-Trichlorobenzene		0.7539	8.33		
1,2-Dichlorobenzene		1.046	5.42		
1,2-Dichloroethane		0.3026	5.82		
1,3-Dichlorobenzene		1.204	6.18		
1,4-Dichlorobenzene		1.264	9.83		
1,4-Dioxane		0.0009400	17.2	0.998	
2-Butanone		0.04588	4.30		
2-Hexanone		0.04582	13.5		
4-Methyl-2-Pentanone		0.03655	11.8		
Acetone		0.03395	7.59		
Acrylonitrile		0.03932	13.1		
Benzene		0.7935	9.34		
Bromodichloromethane		0.2911	7.48		
Bromomethane		0.1780	10.7		
Carbon Disulfide		0.6547	13.8		
Carbon Tetrachloride		0.3027	21.0		1.00
Chloroethane		0.1714	4.37		
Dibromochloromethane		0.2210	15.7		1.00
Methyl Tert Butyl Ether		0.4145	5.67		
Methylene Chloride		0.2325	10.1		
Styrene		0.7898	16.9		1.00
Tetrachloroethene		0.2158	17.3		1.00
Trichloroethene		0.1909	15.9		1.00
Vinyl Acetate		0.2705	9.72		
cis-1,2-Dichloroethene		0.2108	11.7		
cis-1,3-Dichloropropene		0.3011	10.7		
m-,p-Xylene		0.4954	12.9		
o-Xylene		0.4983	13.2		
trans-1,2-Dichloroethene		0.3057	14.5		
trans-1,3-Dichloropropene		0.3771	9.64		

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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050149 Instrument ID: HPMS8

Analytical Method: 8260B Initial Calibration Date: 29-APR-08 15:06

ICAL Workgroup: WG269760 Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050149 **Instrument ID:** HPMS9
Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39
ICAL Workgroup: WG270933 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.4588	7.55		
1,2-Dichloropropane	CCC	0.2608	10.7		
Chloroform	CCC	0.5162	3.59		
Ethylbenzene	CCC	0.5626	9.19		
Toluene	CCC	1.724	12.5		
Vinyl Chloride	CCC	0.1858	12.0		
1,1,2,2-Tetrachloroethane	SPCC	0.7830	4.40		
1,1-Dichloroethane	SPCC	0.5553	3.69		
Bromoform	SPCC	0.1603	13.5		
Chlorobenzene	SPCC	1.026	3.24		
Chloromethane	SPCC	0.3160	14.7		
1,1,1-Trichloroethane		0.4383	6.48		
1,1,2-Trichloroethane		0.2955	6.26		
1,2,4-Trichlorobenzene		0.8378	12.8		
1,2-Dichlorobenzene		1.288	4.20		
1,2-Dichloroethane		0.4151	5.15		
1,3-Dichlorobenzene		1.452	3.94		
1,4-Dichlorobenzene		1.533	6.37		
1,4-Dioxane		0.001683	22.2	0.997	
2-Butanone		0.1054	8.74		
2-Hexanone		0.2294	14.2		
4-Methyl-2-Pentanone		0.07657	11.7		
Acetone		0.08272	28.3	0.999	
Acrylonitrile		0.07434	13.1		
Benzene		1.089	4.81		
Bromodichloromethane		0.3374	9.35		
Bromomethane		0.1093	8.38		
Carbon Disulfide		0.9167	5.80		
Carbon Tetrachloride		0.3112	13.7		
Chloroethane		0.1761	3.81		
Dibromochloromethane		0.2826	14.3		
Methyl Tert Butyl Ether		0.6528	12.5		
Methylene Chloride		0.2741	12.4		
Styrene		1.015	17.0	1.00	
Tetrachloroethene		0.3176	6.72		
Trichloroethene		0.2225	6.49		
Vinyl Acetate		0.4854	11.1		
cis-1,2-Dichloroethene		0.2590	6.95		
cis-1,3-Dichloropropene		0.3986	15.0		
m-,p-Xylene		0.6677	10.2		
o-Xylene		0.5964	19.4	1.00	
trans-1,2-Dichloroethene		0.2562	9.35		
trans-1,3-Dichloropropene		0.6074	14.3		

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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050149
Analytical Method: 8260B
ICAL Workgroup: WG270933

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 29-APR-08 15:06

Column ID: F

Analyte	WG269760-02			WG269760-03			WG269760-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	2618.00000	0.1934	1.00	6843.00000	0.2062
1,2-Dichloropropane	NA	NA	NA	0.400	2182.00000	0.1612	1.00	5563.00000	0.1676
Chloroform	0.300	4809.00000	0.4510	0.400	5475.00000	0.4045	1.00	12498.0000	0.3766
Ethylbenzene	0.300	3344.00000	0.4288	0.400	3170.00000	0.3165	1.00	7637.00000	0.3117
Toluene	NA	NA	NA	0.400	9223.00000	0.9208	1.00	21952.0000	0.8959
Vinyl Chloride	NA	NA	NA	NA	NA	NA	1.00	8073.00000	0.2433
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1913.00000	0.3701	1.00	5134.00000	0.3960
1,1-Dichloroethane	NA	NA	NA	0.400	4837.00000	0.3573	1.00	10821.0000	0.3261
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2545.00000	0.1039
Chlorobenzene	NA	NA	NA	0.400	7631.00000	0.7619	1.00	18061.0000	0.7371
Chloromethane	NA	NA	NA	0.400	4060.00000	0.2999	1.00	9291.00000	0.2800
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	1.00	9053.00000	0.2728
1,1,2-Trichloroethane	NA	NA	NA	0.400	1725.00000	0.1722	1.00	4346.00000	0.1774
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	3416.00000	0.6609	1.00	8921.00000	0.6881
1,2-Dichlorobenzene	0.300	4352.00000	1.086	0.400	5299.00000	1.025	1.00	12462.0000	0.9612
1,2-Dichloroethane	NA	NA	NA	0.400	4010.00000	0.2962	1.00	10320.0000	0.3110
1,3-Dichlorobenzene	NA	NA	NA	0.400	6239.00000	1.207	1.00	14297.0000	1.103
1,4-Dichlorobenzene	0.300	6107.00000	1.524	0.400	6688.00000	1.294	1.00	15288.0000	1.179
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	9413.00000	0.6954	1.00	22956.0000	0.6918
Bromodichloromethane	NA	NA	NA	0.400	3410.00000	0.2519	1.00	8907.00000	0.2684
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	5244.00000	0.1580
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	18050.0000	0.5439
Carbon Tetrachloride	NA	NA	NA	0.400	2730.00000	0.2017	1.00	6987.00000	0.2105
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	5757.00000	0.1735
Dibromochloromethane	NA	NA	NA	0.400	1577.00000	0.1574	1.00	4505.00000	0.1839
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	13125.0000	0.3955
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	9117.00000	0.2747
Styrene	NA	NA	NA	0.400	5847.00000	0.5838	1.00	15005.0000	0.6124
Tetrachloroethene	NA	NA	NA	0.400	1566.00000	0.1563	1.00	3938.00000	0.1607
Trichloroethene	NA	NA	NA	0.400	1986.00000	0.1467	1.00	4721.00000	0.1423
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	2345.00000	0.1732	1.00	5744.00000	0.1731
cis-1,3-Dichloropropene	NA	NA	NA	0.400	3505.00000	0.2589	1.00	8536.00000	0.2572
m-,p-Xylene	NA	NA	NA	0.800	8613.00000	0.4300	2.00	19616.0000	0.4003
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	9098.00000	0.3713
trans-1,2-Dichloroethene	NA	NA	NA	0.400	3271.00000	0.2416	1.00	7793.00000	0.2348

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 29-APR-08 15:06

Column ID: F

Analyte	WG269760-05			WG269760-06			WG269760-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	25680.0000	0.3628	5.00	51190.0000	0.3037	20.0	247962.000	0.3595
1,2-Dichloropropane	2.00	13933.0000	0.1968	5.00	32177.0000	0.1909	20.0	137990.000	0.2001
Chloroform	2.00	31592.0000	0.4463	5.00	69294.0000	0.4111	20.0	307131.000	0.4453
Ethylbenzene	2.00	23125.0000	0.4552	5.00	50746.0000	0.4110	20.0	233733.000	0.4589
Toluene	2.00	62503.0000	1.230	5.00	141252.000	1.144	20.0	636666.000	1.250
Vinyl Chloride	2.00	15038.0000	0.2124	5.00	34483.0000	0.2046	20.0	138795.000	0.2012
1,1,2,2-Tetrachloroethane	2.00	10760.0000	0.4033	5.00	24016.0000	0.3693	20.0	103471.000	0.3822
1,1-Dichloroethane	2.00	29639.0000	0.4187	5.00	63704.0000	0.3780	20.0	287843.000	0.4173
Bromoform	2.00	5803.00000	0.1142	5.00	14406.0000	0.1167	20.0	69307.0000	0.1361
Chlorobenzene	2.00	42766.0000	0.8417	5.00	95361.0000	0.7724	20.0	413256.000	0.8114
Chloromethane	2.00	18493.0000	0.2613	5.00	40159.0000	0.2383	20.0	156528.000	0.2269
1,1,1-Trichloroethane	2.00	29299.0000	0.4139	5.00	60708.0000	0.3602	20.0	282068.000	0.4090
1,1,2-Trichloroethane	2.00	9352.00000	0.1841	5.00	21628.0000	0.1752	20.0	92450.0000	0.1815
1,2,4-Trichlorobenzene	2.00	19807.0000	0.7424	5.00	48878.0000	0.7516	20.0	222893.000	0.8232
1,2-Dichlorobenzene	2.00	28182.0000	1.056	5.00	68538.0000	1.054	20.0	301526.000	1.114
1,2-Dichloroethane	2.00	23166.0000	0.3273	5.00	52553.0000	0.3118	20.0	213924.000	0.3102
1,3-Dichlorobenzene	2.00	33639.0000	1.261	5.00	80002.0000	1.230	20.0	346183.000	1.279
1,4-Dichlorobenzene	2.00	35100.0000	1.316	5.00	81028.0000	1.246	20.0	350593.000	1.295
1,4-Dioxane	NA	NA	NA	100	2268.00000	0.0007000	150	4404.00000	0.0009000
2-Butanone	NA	NA	NA	5.00	7461.00000	0.04430	20.0	30329.0000	0.04400
2-Hexanone	NA	NA	NA	5.00	4464.00000	0.03620	20.0	20942.0000	0.04110
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4941.00000	0.02930	20.0	23619.0000	0.03420
Acetone	NA	NA	NA	5.00	6020.00000	0.03570	20.0	23004.0000	0.03340
Acrylonitrile	NA	NA	NA	5.00	5375.00000	0.03190	20.0	24643.0000	0.03570
Benzene	2.00	61362.0000	0.8669	5.00	135497.000	0.8039	20.0	594499.000	0.8619
Bromodichloromethane	2.00	21207.0000	0.2996	5.00	48069.0000	0.2852	20.0	211427.000	0.3065
Bromomethane	2.00	12982.0000	0.1834	5.00	25613.0000	0.1520	20.0	117994.000	0.1711
Carbon Disulfide	2.00	46165.0000	0.6522	5.00	87137.0000	0.5170	20.0	475826.000	0.6899
Carbon Tetrachloride	2.00	24760.0000	0.3498	5.00	48577.0000	0.2882	20.0	238757.000	0.3462
Chloroethane	2.00	11304.0000	0.1597	5.00	28263.0000	0.1677	20.0	122631.000	0.1778
Dibromochloromethane	2.00	11007.0000	0.2166	5.00	27385.0000	0.2218	20.0	122005.000	0.2396
Methyl Tert Butyl Ether	2.00	28223.0000	0.3987	5.00	65342.0000	0.3877	20.0	292482.000	0.4241
Methylene Chloride	2.00	18062.0000	0.2552	5.00	37575.0000	0.2229	20.0	154372.000	0.2238
Styrene	2.00	39424.0000	0.7760	5.00	103169.000	0.8356	20.0	471042.000	0.9249
Tetrachloroethene	2.00	12106.0000	0.2383	5.00	26591.0000	0.2154	20.0	123493.000	0.2425
Trichloroethene	2.00	14554.0000	0.2056	5.00	31492.0000	0.1869	20.0	143472.000	0.2080
Vinyl Acetate	2.00	17129.0000	0.2420	5.00	40016.0000	0.2374	20.0	193625.000	0.2807
cis-1,2-Dichloroethene	2.00	15748.0000	0.2225	5.00	34875.0000	0.2069	20.0	157226.000	0.2280
cis-1,3-Dichloropropene	2.00	20314.0000	0.2870	5.00	49238.0000	0.2921	20.0	223695.000	0.3243
m-,p-Xylene	4.00	54847.0000	0.5398	10.0	126273.000	0.5114	40.0	576696.000	0.5662
o-Xylene	2.00	24908.0000	0.4903	5.00	60729.0000	0.4919	20.0	284722.000	0.5591
trans-1,2-Dichloroethene	2.00	23607.0000	0.3335	5.00	50067.0000	0.2971	20.0	232471.000	0.3371

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INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS8

Analytical Method: 8260B **Initial Calibration Date:** 29-APR-08 15:06

Column ID: F

Analyte	WG269760-08			WG269760-09			WG269760-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	718201.000	0.3874	100	1617635.00	0.3886	200	3282581.00	0.3830
1,2-Dichloropropane	50.0	381162.000	0.2056	100	850064.000	0.2042	200	1651183.00	0.1927
Chloroform	50.0	820071.000	0.4424	100	1775318.00	0.4264	200	3383309.00	0.3948
Ethylbenzene	50.0	634414.000	0.4587	100	1296474.00	0.4237	200	2442706.00	0.3751
Toluene	50.0	1715449.00	1.240	100	3550216.00	1.160	200	6622352.00	1.017
Vinyl Chloride	50.0	345497.000	0.1864	100	651175.000	0.1564	NA	NA	NA
1,1,2,2-Tetrachloroethane	50.0	283970.000	0.3852	100	663405.000	0.4094	200	1272502.00	0.3803
1,1-Dichloroethane	50.0	779064.000	0.4202	100	1710386.00	0.4108	200	3364503.00	0.3926
Bromoform	50.0	200091.000	0.1447	100	466047.000	0.1523	200	908659.000	0.1395
Chlorobenzene	50.0	1103069.00	0.7975	100	2294404.00	0.7499	200	4280235.00	0.6572
Chloromethane	50.0	397497.000	0.2144	100	829626.000	0.1993	200	1795930.00	0.2095
1,1,1-Trichloroethane	50.0	781143.000	0.4214	100	1681680.00	0.4039	200	3187638.00	0.3719
1,1,2-Trichloroethane	50.0	248708.000	0.1798	100	569581.000	0.1862	200	1102543.00	0.1693
1,2,4-Trichlorobenzene	50.0	611662.000	0.8296	100	1312598.00	0.8100	200	2427267.00	0.7254
1,2-Dichlorobenzene	50.0	810083.000	1.099	100	1725375.00	1.065	200	3189470.00	0.9532
1,2-Dichloroethane	50.0	557614.000	0.3008	100	1234620.00	0.2966	200	2288422.00	0.2670
1,3-Dichlorobenzene	50.0	935289.000	1.269	100	1948880.00	1.203	200	3621294.00	1.082
1,4-Dichlorobenzene	50.0	932726.000	1.265	100	1933586.00	1.193	200	3569506.00	1.067
1,4-Dioxane	200	7095.00000	0.001000	400	17759.0000	0.001100	NA	NA	NA
2-Butanone	50.0	84264.0000	0.04550	100	205761.000	0.04940	200	398440.000	0.04650
2-Hexanone	50.0	64911.0000	0.04690	100	163545.000	0.05350	200	316765.000	0.04860
4-Methyl-2-Pentanone	50.0	70203.0000	0.03790	100	174064.000	0.04180	200	335234.000	0.03910
Acetone	50.0	61732.0000	0.03330	100	154429.000	0.03710	200	296439.000	0.03460
Acrylonitrile	50.0	75510.0000	0.04070	100	189559.000	0.04550	200	378173.000	0.04410
Benzene	50.0	1596450.00	0.8612	100	3436296.00	0.8254	200	6355691.00	0.7416
Bromodichloromethane	50.0	581652.000	0.3138	100	1295750.00	0.3112	200	2500564.00	0.2918
Bromomethane	50.0	340673.000	0.1838	100	861032.000	0.2068	200	1638382.00	0.1912
Carbon Disulfide	50.0	1377827.00	0.7432	100	3075140.00	0.7387	200	5985319.00	0.6983
Carbon Tetrachloride	50.0	669146.000	0.3610	100	1415922.00	0.3401	200	2775009.00	0.3238
Chloroethane	50.0	329956.000	0.1780	100	742738.000	0.1784	200	1410146.00	0.1645
Dibromochloromethane	50.0	347512.000	0.2512	100	792740.000	0.2591	200	1551369.00	0.2382
Methyl Tert Butyl Ether	50.0	791289.000	0.4268	100	1899257.00	0.4562	200	3536232.00	0.4126
Methylene Chloride	50.0	413785.000	0.2232	100	915206.000	0.2198	200	1784139.00	0.2082
Styrene	50.0	1292634.00	0.9345	100	2697470.00	0.8816	200	5011961.00	0.7696
Tetrachloroethene	50.0	348276.000	0.2518	100	740976.000	0.2422	200	1427653.00	0.2192
Trichloroethene	50.0	406903.000	0.2195	100	898116.000	0.2157	200	1737298.00	0.2027
Vinyl Acetate	50.0	535250.000	0.2887	100	1264933.00	0.3038	200	2319239.00	0.2706
cis-1,2-Dichloroethene	50.0	433310.000	0.2337	100	965294.000	0.2319	200	1857159.00	0.2167
cis-1,3-Dichloropropene	50.0	619455.000	0.3341	100	1406239.00	0.3378	200	2718642.00	0.3172
m-,p-Xylene	100	1560357.00	0.5640	200	3129091.00	0.5114	400	5729697.00	0.4399
o-Xylene	50.0	781709.000	0.5651	100	1625144.00	0.5312	200	3119068.00	0.4789
trans-1,2-Dichloroethene	50.0	643050.000	0.3469	100	1408602.00	0.3384	200	2708016.00	0.3160

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INITIAL CALIBRATION DATA

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Analytical Method: 8260B **Initial Calibration Date:** 29-APR-08 15:06
Column ID: F

Analyte	WG269760-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	600	27062.0000	0.001000
2-Butanone	300	604431.000	0.04560
2-Hexanone	300	464658.000	0.04860
4-Methyl-2-Pentanone	300	490864.000	0.03700
Acetone	300	392070.000	0.02960
Acrylonitrile	300	503200.000	0.03800
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

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INITIAL CALIBRATION DATA

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Analyte	WG269760-02			WG269760-03			WG269760-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	0.400	3207.00000	0.3202	1.00	8087.00000	0.3300

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

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Analytical Method: 8260B
Instrument ID: HPMS8
Initial Calibration Date: 29-APR-08 15:06
Column ID: F

Analyte	WG269760-05			WG269760-06			WG269760-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	19147.0000	0.3769	5.00	46150.0000	0.3738	20.0	205045.000	0.4026

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INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B

Instrument ID: HPMS8
Initial Calibration Date: 29-APR-08 15:06
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Analyte	WG269760-08			WG269760-09			WG269760-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	568649.000	0.4111	100	1289378.00	0.4214	200	2479151.00	0.3807

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B
Instrument ID: HPMS8
Initial Calibration Date: 29-APR-08 15:06
Column ID: F

Analyte	WG269760-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	1.00	6393.00000	0.4071	2.00	13566.0000	0.4272
1,2-Dichloropropane	NA	NA	NA	1.00	3254.00000	0.2072	2.00	8013.00000	0.2523
Chloroform	NA	NA	NA	1.00	7976.00000	0.5079	2.00	15792.0000	0.4973
Ethylbenzene	NA	NA	NA	1.00	4761.00000	0.5005	2.00	9446.00000	0.4974
Toluene	NA	NA	NA	1.00	12626.0000	1.327	2.00	30014.0000	1.580
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	6925.00000	0.2181
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	3345.00000	0.7776	2.00	6577.00000	0.7594
1,1-Dichloroethane	NA	NA	NA	1.00	8631.00000	0.5496	2.00	16963.0000	0.5342
Bromoform	NA	NA	NA	NA	NA	NA	2.00	2429.00000	0.1279
Chlorobenzene	NA	NA	NA	1.00	9933.00000	1.044	2.00	19044.0000	1.003
Chloromethane	NA	NA	NA	1.00	6439.00000	0.4100	2.00	10808.0000	0.3403
1,1,1-Trichloroethane	NA	NA	NA	1.00	6199.00000	0.3948	2.00	13170.0000	0.4147
1,1,2-Trichloroethane	NA	NA	NA	1.00	2516.00000	0.2645	2.00	5653.00000	0.2977
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	2950.00000	0.6858	2.00	6557.00000	0.7571
1,2-Dichlorobenzene	NA	NA	NA	1.00	5430.00000	1.262	2.00	10544.0000	1.217
1,2-Dichloroethane	NA	NA	NA	1.00	6043.00000	0.3848	2.00	13057.0000	0.4112
1,3-Dichlorobenzene	NA	NA	NA	1.00	6160.00000	1.432	2.00	11894.0000	1.373
1,4-Dichlorobenzene	NA	NA	NA	1.00	7367.00000	1.713	2.00	13568.0000	1.567
1,4-Dioxane	NA	NA	NA	NA	NA	NA	50.0	960.000000	0.001200
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	2.00	4290.00000	0.2259
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	2.00	2075.00000	0.06530
Benzene	NA	NA	NA	1.00	15706.0000	1.000	2.00	34249.0000	1.079
Bromodichloromethane	NA	NA	NA	1.00	4703.00000	0.2995	2.00	9583.00000	0.3018
Bromomethane	NA	NA	NA	1.00	1597.00000	0.1017	2.00	3401.00000	0.1071
Carbon Disulfide	NA	NA	NA	1.00	15811.0000	1.007	2.00	29433.0000	0.9268
Carbon Tetrachloride	NA	NA	NA	1.00	3662.00000	0.2332	2.00	9059.00000	0.2853
Chloroethane	NA	NA	NA	1.00	2807.00000	0.1787	2.00	5257.00000	0.1655
Dibromochloromethane	NA	NA	NA	NA	NA	NA	2.00	4240.00000	0.2233
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	17468.0000	0.5501
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	10422.0000	0.3282
Styrene	NA	NA	NA	NA	NA	NA	2.00	13650.0000	0.7188
Tetrachloroethene	NA	NA	NA	1.00	2776.00000	0.2918	2.00	5518.00000	0.2906
Trichloroethene	NA	NA	NA	1.00	3175.00000	0.2022	2.00	6691.00000	0.2107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	14317.0000	0.4508
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3619.00000	0.2305	2.00	7779.00000	0.2450
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	2.00	9719.00000	0.3060
m-,p-Xylene	1.00	5660.00000	0.5719	2.00	11146.0000	0.5858	4.00	23579.0000	0.6208
o-Xylene	NA	NA	NA	1.00	3824.00000	0.4020	2.00	9538.00000	0.5022
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3365.00000	0.2143	2.00	7448.00000	0.2345

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	36896.0000	0.4476	20.0	156692.000	0.4683	50.0	412211.000	0.5025
1,2-Dichloropropane	5.00	21008.0000	0.2549	20.0	86489.0000	0.2585	50.0	235779.000	0.2874
Chloroform	5.00	42879.0000	0.5202	20.0	169069.000	0.5053	50.0	446055.000	0.5438
Ethylbenzene	5.00	26651.0000	0.5399	20.0	115596.000	0.5708	50.0	311046.000	0.6262
Toluene	5.00	83438.0000	1.690	20.0	356327.000	1.759	50.0	951503.000	1.916
Vinyl Chloride	5.00	16451.0000	0.1996	20.0	61278.0000	0.1832	50.0	155260.000	0.1893
1,1,2,2-Tetrachloroethane	5.00	18301.0000	0.7999	20.0	69709.0000	0.7375	50.0	197663.000	0.8470
1,1-Dichloroethane	5.00	46079.0000	0.5590	20.0	183109.000	0.5473	50.0	477051.000	0.5815
Bromoform	5.00	7264.00000	0.1471	20.0	30815.0000	0.1522	50.0	92350.0000	0.1859
Chlorobenzene	5.00	50596.0000	1.025	20.0	200813.000	0.9915	50.0	537818.000	1.083
Chloromethane	5.00	25485.0000	0.3092	20.0	97925.0000	0.2927	50.0	238892.000	0.2912
1,1,1-Trichloroethane	5.00	36085.0000	0.4378	20.0	148594.000	0.4441	50.0	388224.000	0.4733
1,1,2-Trichloroethane	5.00	14699.0000	0.2978	20.0	57520.0000	0.2840	50.0	160693.000	0.3235
1,2,4-Trichlorobenzene	5.00	17715.0000	0.7743	20.0	77361.0000	0.8185	50.0	225695.000	0.9672
1,2-Dichlorobenzene	5.00	29594.0000	1.293	20.0	117796.000	1.246	50.0	320823.000	1.375
1,2-Dichloroethane	5.00	35252.0000	0.4277	20.0	136303.000	0.4074	50.0	366257.000	0.4465
1,3-Dichlorobenzene	5.00	33534.0000	1.466	20.0	134724.000	1.425	50.0	361829.000	1.551
1,4-Dichlorobenzene	5.00	34966.0000	1.528	20.0	136799.000	1.447	50.0	364265.000	1.561
1,4-Dioxane	100	2487.00000	0.001500	150	3412.00000	0.001400	200	6625.00000	0.002000
2-Butanone	5.00	9520.00000	0.1155	20.0	30969.0000	0.09260	50.0	90902.0000	0.1108
2-Hexanone	5.00	8633.00000	0.1749	20.0	40072.0000	0.1979	50.0	127211.000	0.2561
4-Methyl-2-Pentanone	5.00	5157.00000	0.06260	20.0	23191.0000	0.06930	50.0	69458.0000	0.08470
Acetone	5.00	10220.0000	0.1240	20.0	23803.0000	0.07110	50.0	64842.0000	0.07900
Acrylonitrile	5.00	4904.00000	0.05950	20.0	22897.0000	0.06840	50.0	69006.0000	0.08410
Benzene	5.00	90941.0000	1.103	20.0	363548.000	1.087	50.0	951282.000	1.160
Bromodichloromethane	5.00	26456.0000	0.3210	20.0	112426.000	0.3360	50.0	309859.000	0.3777
Bromomethane	5.00	7993.00000	0.09700	20.0	34963.0000	0.1045	50.0	95227.0000	0.1161
Carbon Disulfide	5.00	71112.0000	0.8627	20.0	302228.000	0.9033	50.0	780732.000	0.9517
Carbon Tetrachloride	5.00	24711.0000	0.2998	20.0	109746.000	0.3280	50.0	291285.000	0.3551
Chloroethane	5.00	15115.0000	0.1834	20.0	56124.0000	0.1677	50.0	146967.000	0.1792
Dibromochloromethane	5.00	12361.0000	0.2504	20.0	55464.0000	0.2739	50.0	161009.000	0.3241
Methyl Tert Butyl Ether	5.00	47996.0000	0.5823	20.0	209936.000	0.6275	50.0	617880.000	0.7532
Methylene Chloride	5.00	24991.0000	0.3032	20.0	83872.0000	0.2507	50.0	218794.000	0.2667
Styrene	5.00	45367.0000	0.9190	20.0	205246.000	1.013	50.0	579871.000	1.167
Tetrachloroethene	5.00	15175.0000	0.3074	20.0	65599.0000	0.3239	50.0	170532.000	0.3433
Trichloroethene	5.00	17908.0000	0.2173	20.0	74427.0000	0.2225	50.0	198950.000	0.2425
Vinyl Acetate	5.00	34394.0000	0.4173	20.0	144304.000	0.4313	50.0	450260.000	0.5489
cis-1,2-Dichloroethene	5.00	21509.0000	0.2609	20.0	86093.0000	0.2573	50.0	229982.000	0.2804
cis-1,3-Dichloropropene	5.00	29275.0000	0.3551	20.0	130047.000	0.3887	50.0	372613.000	0.4542
m-,p-Xylene	10.0	66804.0000	0.6766	40.0	279515.000	0.6901	100	749507.000	0.7545
o-Xylene	5.00	27361.0000	0.5543	20.0	125671.000	0.6205	50.0	352077.000	0.7088
trans-1,2-Dichloroethene	5.00	21611.0000	0.2622	20.0	88416.0000	0.2643	50.0	229210.000	0.2794

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	832531.000	0.4962	200	1504017.00	0.4625	NA	NA	NA
1,2-Dichloropropane	100	480649.000	0.2864	200	905931.000	0.2786	NA	NA	NA
Chloroform	100	903271.000	0.5383	200	1627555.00	0.5005	NA	NA	NA
Ethylbenzene	100	601327.000	0.6124	200	1121306.00	0.5909	NA	NA	NA
Toluene	100	1886524.00	1.921	200	3557692.00	1.875	NA	NA	NA
Vinyl Chloride	100	286506.000	0.1707	200	500174.000	0.1538	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	355195.000	0.7746	200	705193.000	0.7848	NA	NA	NA
1,1-Dichloroethane	100	977894.000	0.5828	200	1731421.00	0.5324	NA	NA	NA
Bromoform	100	169772.000	0.1729	200	333140.000	0.1756	NA	NA	NA
Chlorobenzene	100	1024707.00	1.044	200	1885988.00	0.9939	NA	NA	NA
Chloromethane	100	459282.000	0.2737	200	959711.000	0.2951	NA	NA	NA
1,1,1-Trichloroethane	100	790925.000	0.4714	200	1405524.00	0.4322	NA	NA	NA
1,1,2-Trichloroethane	100	302413.000	0.3080	200	555741.000	0.2929	NA	NA	NA
1,2,4-Trichlorobenzene	100	437389.000	0.9538	200	815612.000	0.9077	NA	NA	NA
1,2-Dichlorobenzene	100	614087.000	1.339	200	1152410.00	1.283	NA	NA	NA
1,2-Dichloroethane	100	723954.000	0.4314	200	1289849.00	0.3966	NA	NA	NA
1,3-Dichlorobenzene	100	683969.000	1.492	200	1278695.00	1.423	NA	NA	NA
1,4-Dichlorobenzene	100	687968.000	1.500	200	1268732.00	1.412	NA	NA	NA
1,4-Dioxane	400	13644.0000	0.002000	NA	NA	NA	600	20425.0000	0.002000
2-Butanone	100	170016.000	0.1013	200	320464.000	0.09850	300	575724.000	0.1134
2-Hexanone	100	232440.000	0.2367	200	475176.000	0.2504	300	762913.000	0.2640
4-Methyl-2-Pentanone	100	129991.000	0.07750	200	261419.000	0.08040	300	431135.000	0.08490
Acetone	100	119224.000	0.07110	200	222409.000	0.06840	NA	NA	NA
Acrylonitrile	100	138058.000	0.08230	200	261513.000	0.08040	300	407809.000	0.08040
Benzene	100	1908422.00	1.137	200	3443505.00	1.059	NA	NA	NA
Bromodichloromethane	100	618856.000	0.3688	200	1160199.00	0.3568	NA	NA	NA
Bromomethane	100	195989.000	0.1168	200	397037.000	0.1221	NA	NA	NA
Carbon Disulfide	100	1535985.00	0.9154	200	2765655.00	0.8504	NA	NA	NA
Carbon Tetrachloride	100	587410.000	0.3501	200	1063328.00	0.3270	NA	NA	NA
Chloroethane	100	299319.000	0.1784	200	585303.000	0.1800	NA	NA	NA
Dibromochloromethane	100	310238.000	0.3159	200	584740.000	0.3081	NA	NA	NA
Methyl Tert Butyl Ether	100	1236750.00	0.7370	200	2168088.00	0.6667	NA	NA	NA
Methylene Chloride	100	425995.000	0.2539	200	786904.000	0.2420	NA	NA	NA
Styrene	100	1129465.00	1.150	200	2126229.00	1.121	NA	NA	NA
Tetrachloroethene	100	331921.000	0.3380	200	623274.000	0.3285	NA	NA	NA
Trichloroethene	100	400818.000	0.2389	200	727344.000	0.2237	NA	NA	NA
Vinyl Acetate	100	891726.000	0.5314	200	1575238.00	0.4844	300	2710030.00	0.5340
cis-1,2-Dichloroethene	100	470924.000	0.2807	200	839787.000	0.2582	NA	NA	NA
cis-1,3-Dichloropropene	100	753697.000	0.4492	200	1426324.00	0.4386	NA	NA	NA
m-,p-Xylene	200	1453870.00	0.7403	400	2662835.00	0.7016	NA	NA	NA
o-Xylene	100	686142.000	0.6988	200	1305696.00	0.6881	NA	NA	NA
trans-1,2-Dichloroethene	100	469986.000	0.2801	200	839949.000	0.2583	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	4563.00000	0.4797	2.00	10288.0000	0.5417

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	27404.0000	0.5551	20.0	123023.000	0.6074	50.0	356535.000	0.7178

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	677983.000	0.6905	200	1251013.00	0.6593	NA	NA	NA

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050149 Run Date: 04/29/2008 Sample ID: WG269760-12
Instrument ID: HPMS8 Run Time: 17:28 Method: 8260B
File ID: 8M344824 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG269760 Cal ID: HPMS8 - 29-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.1	ug/L	0.360	4.70	25	
1,2-Dichloropropane	CCC	20.0	21.2	ug/L	0.201	6.00	25	
Chloroform	CCC	20.0	20.5	ug/L	0.433	2.50	25	
Ethylbenzene	CCC	20.0	23.3	ug/L	0.472	16.7	25	
Toluene	CCC	20.0	22.8	ug/L	1.26	14.1	25	
Vinyl Chloride	CCC	20.0	18.6	ug/L	0.186	7.20	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	19.7	ug/L	0.382	1.30	25	
1,1-Dichloroethane	SPCC	20.0	21.0	ug/L	0.409	4.90	25	
Bromoform	SPCC	20.0	19.8	ug/L	0.128	1.00	25	
Chlorobenzene	SPCC	20.0	21.3	ug/L	0.818	6.70	25	
Chloromethane	SPCC	20.0	18.8	ug/L	0.227	5.80	25	
1,1,1-Trichloroethane		20.0	21.0	ug/L	0.397	4.80	25	
1,1,2-Trichloroethane		20.0	20.5	ug/L	0.183	2.70	25	
1,2,4-Trichlorobenzene		20.0	22.0	ug/L	0.828	9.90	25	
1,2-Dichlorobenzene		20.0	21.3	ug/L	1.11	6.30	25	
1,2-Dichloroethane		20.0	19.1	ug/L	0.289	4.40	25	
1,3-Dichlorobenzene		20.0	21.1	ug/L	1.27	5.40	25	
1,4-Dichlorobenzene		20.0	20.0	ug/L	1.26	0.100	25	
1,4-Dioxane		200	213	ug/L	0.00130	6.30	25	
2-Butanone		20.0	19.7	ug/L	0.0451	1.60	25	
2-Hexanone		20.0	18.9	ug/L	0.0433	5.50	25	
4-Methyl-2-Pentanone		20.0	19.3	ug/L	0.0354	3.30	25	
Acetone		20.0	20.0	ug/L	0.0339	0.100	25	
Acrylonitrile		20.0	18.3	ug/L	0.0359	8.70	25	
Benzene		20.0	21.9	ug/L	0.867	9.30	25	
Bromodichloromethane		20.0	21.0	ug/L	0.306	5.10	25	
Bromomethane		20.0	21.2	ug/L	0.188	5.80	25	
Carbon Disulfide		20.0	19.3	ug/L	0.633	3.30	25	
Carbon Tetrachloride		20.0	19.2	ug/L	0.340	3.90	25	
Dibromochloromethane		20.0	18.2	ug/L	0.234	9.20	25	
Chloroethane		20.0	20.9	ug/L	0.179	4.30	25	
cis-1,2-Dichloroethene		20.0	22.8	ug/L	0.240	13.9	25	
cis-1,3-Dichloropropene		20.0	21.3	ug/L	0.321	6.50	25	
Methylene Chloride		20.0	19.4	ug/L	0.226	2.90	25	
Methyl Tert Butyl Ether		20.0	20.5	ug/L	0.426	2.70	25	
Styrene		20.0	19.5	ug/L	0.925	2.70	25	
Tetrachloroethene		20.0	19.8	ug/L	0.251	1.20	25	
trans-1,2-Dichloroethene		20.0	21.4	ug/L	0.327	7.00	25	
trans-1,3-Dichloropropene		20.0	18.9	ug/L	0.357	5.40	25	
Trichloroethene		20.0	20.0	ug/L	0.219	0.200	25	
Vinyl Acetate		20.0	11.8	ug/L	0.160	40.8	25	*
Xylenes		60.0	68.5	ug/L	0.564	14.2	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050149 Run Date: 04/29/2008 Sample ID: WG269760-12
Instrument ID: HPMS8 Run Time: 17:28 Method: 8260B
File ID: 8M344824 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG269760 Cal ID: HPMS8 - 29-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	44.2	ug/L	0.284	10.4	25	
m-,p-Xylene		40.0	46.3	ug/L	0.573	15.7	25	
o-Xylene		20.0	22.3	ug/L	0.555	11.4	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/kg	0.447	2.50	25	
1,2-Dichloropropane	CCC	20.0	21.4	ug/kg	0.279	6.90	25	
Chloroform	CCC	20.0	20.6	ug/kg	0.532	3.00	25	
Ethylbenzene	CCC	20.0	22.1	ug/kg	0.623	10.7	25	
Toluene	CCC	20.0	21.9	ug/kg	1.89	9.70	25	
Vinyl Chloride	CCC	20.0	19.4	ug/kg	0.180	3.10	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/kg	0.871	11.2	25	
1,1-Dichloroethane	SPCC	20.0	20.2	ug/kg	0.562	1.20	25	
Bromoform	SPCC	20.0	21.3	ug/kg	0.171	6.40	25	
Chlorobenzene	SPCC	20.0	21.1	ug/kg	1.08	5.70	25	
Chloromethane	SPCC	20.0	16.8	ug/kg	0.265	16.1	25	
1,1,1-Trichloroethane		20.0	20.5	ug/kg	0.449	2.30	25	
1,1,2-Trichloroethane		20.0	22.3	ug/kg	0.329	11.3	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.897	7.10	25	
1,2-Dichlorobenzene		20.0	21.7	ug/kg	1.40	8.60	25	
1,2-Dichloroethane		20.0	20.4	ug/kg	0.423	2.00	25	
1,3-Dichlorobenzene		20.0	21.4	ug/kg	1.55	7.10	25	
1,4-Dichlorobenzene		20.0	20.0	ug/kg	1.54	0.200	25	
1,4-Dioxane		150	216	ug/kg	0.00270	43.9	25	*
2-Butanone		20.0	23.4	ug/kg	0.124	17.2	25	
2-Hexanone		20.0	20.4	ug/kg	0.234	1.90	25	
4-Methyl-2-Pentanone		20.0	19.9	ug/kg	0.0763	0.400	25	
Acetone		20.0	22.2	ug/kg	0.0905	11.2	25	
Acrylonitrile		20.0	22.4	ug/kg	0.0834	12.1	25	
Benzene		20.0	20.8	ug/kg	1.13	4.10	25	
Bromodichloromethane		20.0	21.9	ug/kg	0.369	9.50	25	
Bromomethane		20.0	19.3	ug/kg	0.105	3.60	25	
Carbon Disulfide		20.0	17.0	ug/kg	0.781	14.8	25	
Carbon Tetrachloride		20.0	20.5	ug/kg	0.319	2.50	25	
Dibromochloromethane		20.0	21.7	ug/kg	0.307	8.60	25	
Chloroethane		20.0	19.0	ug/kg	0.168	4.80	25	
cis-1,2-Dichloroethene		20.0	21.2	ug/kg	0.275	6.20	25	
cis-1,3-Dichloropropene		20.0	20.8	ug/kg	0.414	3.80	25	
Methylene Chloride		20.0	19.2	ug/kg	0.263	4.10	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/kg	0.692	6.00	25	
Styrene		20.0	20.0	ug/kg	1.11	0.200	25	
Tetrachloroethene		20.0	20.5	ug/kg	0.326	2.60	25	
trans-1,2-Dichloroethene		20.0	20.2	ug/kg	0.259	1.00	25	
trans-1,3-Dichloropropene		20.0	20.2	ug/kg	0.613	1.00	25	
Trichloroethene		20.0	20.8	ug/kg	0.231	4.00	25	
Vinyl Acetate		20.0	10.3	ug/kg	0.249	48.7	25	*
Xylenes		60.0	65.5	ug/kg	0.723	9.20	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	41.4	ug/kg	0.267	3.60	25	
o-Xylene		20.0	20.5	ug/kg	0.694	2.60	25	
m-,p-Xylene		40.0	45.0	ug/kg	0.751	12.5	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1097817
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/09/2008 Sample ID: WG270871-02
Instrument ID: HPMS8 Run Time: 13:35 Method: 8260B
File ID: 8M345112 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG270872 Cal ID: HPMS8 - 29-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	49.7	ug/L	0.380	0.692	20	
1,2-Dichloropropane	CCC	50.0	52.9	ug/L	0.201	5.70	20	
Chloroform	CCC	50.0	52.3	ug/L	0.441	4.53	20	
Ethylbenzene	CCC	50.0	55.8	ug/L	0.451	11.5	20	
Toluene	CCC	50.0	54.9	ug/L	1.22	9.77	20	
Vinyl Chloride	CCC	50.0	45.7	ug/L	0.184	8.54	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.2	ug/L	0.365	5.56	20	
1,1-Dichloroethane	SPCC	50.0	54.4	ug/L	0.425	8.89	20	
Bromoform	SPCC	50.0	51.9	ug/L	0.135	3.90	20	
Chlorobenzene	SPCC	50.0	50.8	ug/L	0.778	1.56	20	
Chloromethane	SPCC	50.0	47.2	ug/L	0.228	5.68	20	
1,1,1-Trichloroethane		50.0	55.4	ug/L	0.420	10.7	20	
1,1,2-Trichloroethane		50.0	47.7	ug/L	0.170	4.50	20	
1,2,4-Trichlorobenzene		50.0	53.5	ug/L	0.807	7.04	20	
1,2-Dichlorobenzene		50.0	51.5	ug/L	1.08	3.05	20	
1,2-Dichloroethane		50.0	48.9	ug/L	0.296	2.11	20	
1,3-Dichlorobenzene		50.0	52.7	ug/L	1.27	5.32	20	
1,4-Dichlorobenzene		50.0	49.7	ug/L	1.26	0.647	20	
1,4-Dioxane		200	164	ug/L	0.000700	18.0	20	
2-Butanone		50.0	45.5	ug/L	0.0417	9.04	20	
2-Hexanone		50.0	45.3	ug/L	0.0416	9.31	20	
4-Methyl-2-Pentanone		50.0	47.2	ug/L	0.0345	5.57	20	
Acetone		50.0	46.9	ug/L	0.0319	6.15	20	
Acrylonitrile		50.0	50.3	ug/L	0.0395	0.544	20	
Benzene		50.0	54.3	ug/L	0.862	8.57	20	
Bromodichloromethane		50.0	52.9	ug/L	0.308	5.83	20	
Bromomethane		50.0	50.1	ug/L	0.179	0.277	20	
Carbon Disulfide		50.0	54.4	ug/L	0.712	8.78	20	
Carbon Tetrachloride		50.0	51.0	ug/L	0.359	2.04	20	
Dibromochloromethane		50.0	45.0	ug/L	0.235	10.1	20	
Chloroethane		50.0	49.5	ug/L	0.170	0.962	20	
cis-1,2-Dichloroethene		50.0	56.2	ug/L	0.237	12.4	20	
cis-1,3-Dichloropropene		50.0	55.4	ug/L	0.333	10.7	20	
Methylene Chloride		50.0	46.2	ug/L	0.215	7.52	20	
Methyl Tert Butyl Ether		50.0	48.5	ug/L	0.402	3.06	20	
Styrene		50.0	48.3	ug/L	0.902	3.40	20	
Tetrachloroethene		50.0	48.7	ug/L	0.245	2.57	20	
trans-1,2-Dichloroethene		50.0	57.1	ug/L	0.349	14.2	20	
trans-1,3-Dichloropropene		50.0	50.4	ug/L	0.380	0.869	20	
Trichloroethene		50.0	50.0	ug/L	0.220	0.0800	20	
Vinyl Acetate		50.0	31.2	ug/L	0.169	37.6	20	*
Xylenes		150	167	ug/L	0.552	11.2	20	

CCV - Modified 03/05/2008
PDF File ID: 1097819
Report generated 05/21/2008 16:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/09/2008 Sample ID: WG270871-02

Instrument ID: HPMS8 Run Time: 13:35 Method: 8260B

File ID: 8M345112 Analyst: CMS QC Key: DOWWV2006

Workgroup (AAB#): WG270872 Cal ID: HPMS8 - 29-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	113	ug/L	0.293	13.3	20	
m-,p-Xylene		100	111	ug/L	0.551	11.3	20	
o-Xylene		50.0	55.5	ug/L	0.553	11.0	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1097819
Report generated 05/21/2008 16:16

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/15/2008 Sample ID: WG271287-02
Instrument ID: HPMS9 Run Time: 07:28 Method: 8260B
File ID: 9M61878 Analyst: TMB QC Key: DOWWV2006
Workgroup (AAB#): WG271288 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	48.6	ug/kg	1.11	2.83	20	
1,2-Dichloropropane	CCC	50.0	51.0	ug/kg	0.666	2.09	20	
Chloroform	CCC	50.0	47.8	ug/kg	1.23	4.44	20	
Ethylbenzene	CCC	50.0	54.7	ug/kg	1.54	9.37	20	
Toluene	CCC	50.0	54.1	ug/kg	4.66	8.22	20	
Vinyl Chloride	CCC	50.0	49.8	ug/kg	0.462	0.464	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.5	ug/kg	1.98	1.01	20	
1,1-Dichloroethane	SPCC	50.0	46.3	ug/kg	1.29	7.39	20	
Bromoform	SPCC	50.0	59.8	ug/kg	0.479	19.6	20	
Chlorobenzene	SPCC	50.0	51.4	ug/kg	2.64	2.79	20	
Chloromethane	SPCC	50.0	43.9	ug/kg	0.694	12.2	20	
1,1,1-Trichloroethane		50.0	51.8	ug/kg	1.14	3.64	20	
1,1,2-Trichloroethane		50.0	52.1	ug/kg	0.770	4.25	20	
1,2,4-Trichlorobenzene		50.0	57.3	ug/kg	2.40	14.6	20	
1,2-Dichlorobenzene		50.0	52.8	ug/kg	3.40	5.57	20	
1,2-Dichloroethane		50.0	46.1	ug/kg	0.958	7.71	20	
1,3-Dichlorobenzene		50.0	53.0	ug/kg	3.85	6.05	20	
1,4-Dichlorobenzene		50.0	50.4	ug/kg	3.86	0.812	20	
1,4-Dioxane		150	228	ug/kg	0.00280	52.1	20	*
2-Butanone		50.0	46.3	ug/kg	0.244	7.30	20	
2-Hexanone		50.0	46.4	ug/kg	0.532	7.24	20	
4-Methyl-2-Pentanone		50.0	50.1	ug/kg	0.192	0.150	20	
Acetone		50.0	46.5	ug/kg	0.172	6.98	20	
Acrylonitrile		50.0	50.1	ug/kg	0.186	0.295	20	
Benzene		50.0	52.1	ug/kg	2.84	4.17	20	
Bromodichloromethane		50.0	52.9	ug/kg	0.892	5.75	20	
Bromomethane		50.0	55.5	ug/kg	0.303	10.9	20	
Carbon Disulfide		50.0	46.5	ug/kg	2.13	6.91	20	
Carbon Tetrachloride		50.0	55.9	ug/kg	0.870	11.9	20	
Dibromochloromethane		50.0	57.5	ug/kg	0.813	15.1	20	
Chloroethane		50.0	47.9	ug/kg	0.422	4.20	20	
cis-1,2-Dichloroethene		50.0	51.4	ug/kg	0.665	2.74	20	
cis-1,3-Dichloropropene		50.0	54.8	ug/kg	1.09	9.56	20	
Methylene Chloride		50.0	46.0	ug/kg	0.630	8.01	20	
Methyl Tert Butyl Ether		50.0	51.1	ug/kg	1.67	2.12	20	
Styrene		50.0	50.6	ug/kg	2.84	1.12	20	
Tetrachloroethene		50.0	55.6	ug/kg	0.883	11.1	20	
trans-1,2-Dichloroethene		50.0	51.7	ug/kg	0.662	3.34	20	
trans-1,3-Dichloropropene		50.0	53.7	ug/kg	1.63	7.30	20	
Trichloroethene		50.0	57.3	ug/kg	0.638	14.6	20	
Vinyl Acetate		50.0	40.4	ug/kg	0.981	19.2	20	
Xylenes		150	162	ug/kg	1.79	7.90	20	

CCV - Modified 03/05/2008
PDF File ID: 1097819
Report generated 05/21/2008 16:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/15/2008 Sample ID: WG271287-02

Instrument ID: HPMS9 Run Time: 07:28 Method: 8260B

File ID: 9M61878 Analyst: TMB QC Key: DOWWV2006

Workgroup (AAB#): WG271288 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	103	ug/kg	0.663	3.04	20	
m-,p-Xylene		100	112	ug/kg	1.86	11.5	20	
o-Xylene		50.0	50.3	ug/kg	1.73	0.690	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1097819
Report generated 05/21/2008 16:16

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149
Instrument ID: HPMS8
Workgroup (AAB#): WG270872

ICAL CCV Number: WG269760-08
CAL ID: HPMS8-29-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG269760-08	NA	NA	368633	691602	926916
Upper Limit	NA	NA	737266	1383204	1853832
Lower Limit	NA	NA	184317	345801	463458
L08050149-09	1.00	01	319430	621678	839995
WG270872-01	1.00	01	322075	625151	838086
WG270872-02	1.00	01	346904	650626	853979

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1097820
Report generated 05/20/2008 14:18

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149
Instrument ID: HPMS9
Workgroup (AAB#): WG271288

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050149-01	1.00	01	242684	512394	821765
L08050149-02	1.00	01	228327	494261	797483
L08050149-03	1.00	01	147204	403480	728084
L08050149-04	1.00	01	132974	376589	695173
L08050149-05	1.00	01	192409	444050	737115
L08050149-06	1.00	01	210266	452407	741360
L08050149-07	1.00	01	201787	448032	729792
L08050149-08	1.00	01	167478	407785	691938
WG271288-01	1.00	01	219194	478164	777032
WG271288-02	1.00	01	219156	471414	768978

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1097820
Report generated 05/20/2008 14:18

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149

Instrument ID: HPMS8

Workgroup (AAB#): WG270872

ICAL CCV Number: WG269760-08

CAL ID: HPMS8-29-APR-08

Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG269760-08	NA	NA	17.88	14.86	10.99
Upper Limit	NA	NA	18.38	15.36	11.49
Lower Limit	NA	NA	17.38	14.36	10.49
L08050149-09	1.00	01	17.88	14.86	10.99
WG270872-01	1.00	01	17.89	14.87	10.99
WG270872-02	1.00	01	17.88	14.86	10.99

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1097822

Report generated: 05/20/2008 14:18

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149

Instrument ID: HPMS9

Workgroup (AAB#): WG271288

ICAL CCV Number: WG270933-08

CAL ID: HPMS9-12-MAY-08

Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050149-01	1.00	01	15.2	12.23	8.39
L08050149-02	1.00	01	15.2	12.23	8.39
L08050149-03	1.00	01	15.21	12.23	8.38
L08050149-04	1.00	01	15.21	12.23	8.38
L08050149-05	1.00	01	15.2	12.23	8.39
L08050149-06	1.00	01	15.2	12.23	8.39
L08050149-07	1.00	01	15.2	12.23	8.39
L08050149-08	1.00	01	15.2	12.23	8.39
WG271288-01	1.00	01	15.21	12.23	8.38
WG271288-02	1.00	01	15.21	12.23	8.38

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1097822

Report generated: 05/20/2008 14:18

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS SEMIVOLATILE ORGANICS

Microbac Login No: L08050149

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard yielded a %D for 2,4-dinitrophenol that was beyond the acceptance limit (biased high). All other acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: Samples 03, 04 and 07 were analyzed at dilutions due to the viscosity and/or appearance of the extracts.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must

correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: MES

Approved: 23-MAY-08

LABORATORY REPORT

L08050149

05/23/08 14:33

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0139-SO01-050708	L08050149-01	8270C	1	08-MAY-08
0137-SO01-050708	L08050149-02	8270C	1	08-MAY-08
0138-SO01-050708	L08050149-03	8270C	2	08-MAY-08
0138-SO01-050708 D	L08050149-04	8270C	2	08-MAY-08
0145-SO01-050708	L08050149-05	8270C	1	08-MAY-08
0141-SO01-050708	L08050149-06	8270C	1	08-MAY-08
0141-SO02-050708	L08050149-07	8270C	2	08-MAY-08
0146-SO01-050708	L08050149-08	8270C	1	08-MAY-08

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-01**
Client ID: **0139-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 09:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 16:20**
File ID: **12M21697**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	184	91.8
2,4,6-Trichlorophenol	88-06-2		U	184	91.8
2,4-Dichlorophenol	120-83-2		U	184	91.8
2,4-Dimethylphenol	105-67-9		U	184	91.8
2,4-Dinitrophenol	51-28-5		U	918	458
2,4-Dinitrotoluene	121-14-2		U	184	91.8
2,6-Dinitrotoluene	606-20-2		U	184	91.8
2-Chloronaphthalene	91-58-7		U	184	91.8
2-Chlorophenol	95-57-8		U	184	91.8
2-Methylnaphthalene	91-57-6		U	184	91.8
2-Methylphenol	95-48-7		U	184	91.8
2-Nitroaniline	88-74-4		U	918	458
2-Nitrophenol	88-75-5		U	184	91.8
3,3'-Dichlorobenzidine	91-94-1		U	367	184
3-,4-Methylphenol	106-44-5		U	184	91.8
3-Nitroaniline	99-09-2		U	918	458
4,6-Dinitro-2-methylphenol	534-52-1		U	918	458
4-Bromophenyl phenyl ether	101-55-3		U	184	91.8
4-Chloro-3-methylphenol	59-50-7		U	184	91.8
4-Chloroaniline	106-47-8		U	184	91.8
4-Chlorophenyl phenyl ether	7005-72-3		U	184	91.8
4-Nitroaniline	100-01-6		U	918	458
4-Nitrophenol	100-02-7		U	918	458
Acenaphthene	83-32-9		U	184	91.8
Acenaphthylene	208-96-8		U	184	91.8
Anthracene	120-12-7		U	184	91.8
Benzo(a)anthracene	56-55-3		U	184	91.8
Benzo(a)pyrene	50-32-8		U	184	91.8
Benzo(b)fluoranthene	205-99-2		U	184	91.8
Benzo(g,h,i)Perylene	191-24-2		U	184	91.8
Benzo(k)fluoranthene	207-08-9		U	184	91.8
Bis(2-Chloroethoxy)Methane	111-91-1		U	184	91.8
Bis(2-Chloroethyl)ether	111-44-4		U	184	91.8
bis(2-Chloroisopropyl)ether	39638-32-9		U	184	91.8
bis(2-Ethylhexyl)phthalate	117-81-7		U	184	91.8
Butyl benzyl phthalate	85-68-7		U	184	91.8
Carbazole	86-74-8		U	184	91.8
Chrysene	218-01-9		U	184	91.8
Dibenz(a,h)anthracene	53-70-3		U	184	91.8
Dibenzofuran	132-64-9		U	184	91.8
Diethyl phthalate	84-66-2		U	184	91.8
Dimethyl phthalate	131-11-3		U	184	91.8
Di-N-Butylphthalate	84-74-2		U	184	91.8
Di-n-octyl phthalate	117-84-0		U	184	91.8
Fluoranthene	206-44-0		U	184	91.8
Fluorene	86-73-7		U	184	91.8
Hexachlorobenzene	118-74-1		U	184	91.8
Hexachlorobutadiene	87-68-3		U	184	91.8
Hexachlorocyclopentadiene	77-47-4		U	184	91.8
Hexachloroethane	67-72-1		U	184	91.8
Indeno(1,2,3-cd)pyrene	193-39-5		U	184	91.8
Isophorone	78-59-1		U	184	91.8
Naphthalene	91-20-3		U	184	91.8
Nitrobenzene	98-95-3		U	184	91.8
N-Nitrosodiphenylamine	86-30-6		U	184	91.8
N-Nitrosodipropylamine	621-64-7		U	184	91.8
Pentachlorophenol	87-86-5		U	918	458
Phenanthrene	85-01-8		U	184	91.8
Phenol	108-95-2		U	184	91.8

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0139-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 16:20
Collect Date:	05/07/2008 09:10	Dilution:	1	File ID:	12M21697
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	184	91.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	36.5	19	122	
2-Fluorobiphenyl	55.1	30	115	
2-Fluorophenol	56.8	25	121	
Nitrobenzene-d5	54.8	23	120	
p-Terphenyl-d14	118	18	137	
Phenol-d5	54.6	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-02**
Client ID: **0137-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 16:56**
File ID: **12M21698**
Percent Solid: **89.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	176	88.0
2,4,6-Trichlorophenol	88-06-2		U	176	88.0
2,4-Dichlorophenol	120-83-2		U	176	88.0
2,4-Dimethylphenol	105-67-9		U	176	88.0
2,4-Dinitrophenol	51-28-5		U	880	440
2,4-Dinitrotoluene	121-14-2		U	176	88.0
2,6-Dinitrotoluene	606-20-2		U	176	88.0
2-Chloronaphthalene	91-58-7		U	176	88.0
2-Chlorophenol	95-57-8		U	176	88.0
2-Methylnaphthalene	91-57-6		U	176	88.0
2-Methylphenol	95-48-7		U	176	88.0
2-Nitroaniline	88-74-4		U	880	440
2-Nitrophenol	88-75-5		U	176	88.0
3,3'-Dichlorobenzidine	91-94-1		U	352	176
3-,4-Methylphenol	106-44-5		U	176	88.0
3-Nitroaniline	99-09-2		U	880	440
4,6-Dinitro-2-methylphenol	534-52-1		U	880	440
4-Bromophenyl phenyl ether	101-55-3		U	176	88.0
4-Chloro-3-methylphenol	59-50-7		U	176	88.0
4-Chloroaniline	106-47-8		U	176	88.0
4-Chlorophenyl phenyl ether	7005-72-3		U	176	88.0
4-Nitroaniline	100-01-6		U	880	440
4-Nitrophenol	100-02-7		U	880	440
Acenaphthene	83-32-9		U	176	88.0
Acenaphthylene	208-96-8		U	176	88.0
Anthracene	120-12-7		U	176	88.0
Benzo(a)anthracene	56-55-3		U	176	88.0
Benzo(a)pyrene	50-32-8		U	176	88.0
Benzo(b)fluoranthene	205-99-2		U	176	88.0
Benzo(g,h,i)Perylene	191-24-2		U	176	88.0
Benzo(k)fluoranthene	207-08-9		U	176	88.0
Bis(2-Chloroethoxy)Methane	111-91-1		U	176	88.0
Bis(2-Chloroethyl)ether	111-44-4		U	176	88.0
bis(2-Chloroisopropyl)ether	39638-32-9		U	176	88.0
bis(2-Ethylhexyl)phthalate	117-81-7		U	176	88.0
Butyl benzyl phthalate	85-68-7		U	176	88.0
Carbazole	86-74-8		U	176	88.0
Chrysene	218-01-9		U	176	88.0
Dibenz(a,h)anthracene	53-70-3		U	176	88.0
Dibenzofuran	132-64-9		U	176	88.0
Diethyl phthalate	84-66-2		U	176	88.0
Dimethyl phthalate	131-11-3		U	176	88.0
Di-N-Butylphthalate	84-74-2		U	176	88.0
Di-n-octyl phthalate	117-84-0		U	176	88.0
Fluoranthene	206-44-0		U	176	88.0
Fluorene	86-73-7		U	176	88.0
Hexachlorobenzene	118-74-1		U	176	88.0
Hexachlorobutadiene	87-68-3		U	176	88.0
Hexachlorocyclopentadiene	77-47-4		U	176	88.0
Hexachloroethane	67-72-1		U	176	88.0
Indeno(1,2,3-cd)pyrene	193-39-5		U	176	88.0
Isophorone	78-59-1		U	176	88.0
Naphthalene	91-20-3		U	176	88.0
Nitrobenzene	98-95-3		U	176	88.0
N-Nitrosodiphenylamine	86-30-6		U	176	88.0
N-Nitrosodipropylamine	621-64-7		U	176	88.0
Pentachlorophenol	87-86-5		U	880	440
Phenanthrene	85-01-8		U	176	88.0
Phenol	108-95-2		U	176	88.0

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-02	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0137-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 16:56
Collect Date:	05/07/2008 09:25	Dilution:	1	File ID:	12M21698
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.5

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	176	88.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	37.0	19	122	
2-Fluorobiphenyl	51.0	30	115	
2-Fluorophenol	60.0	25	121	
Nitrobenzene-d5	55.9	23	120	
p-Terphenyl-d14	95.0	18	137	
Phenol-d5	57.1	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-03**
Client ID: **0138-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 09:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 19:19**
File ID: **12M21702**
Percent Solid: **89.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	353	177
2,4,6-Trichlorophenol	88-06-2		U	353	177
2,4-Dichlorophenol	120-83-2		U	353	177
2,4-Dimethylphenol	105-67-9		U	353	177
2,4-Dinitrophenol	51-28-5		U	1770	882
2,4-Dinitrotoluene	121-14-2		U	353	177
2,6-Dinitrotoluene	606-20-2		U	353	177
2-Chloronaphthalene	91-58-7		U	353	177
2-Chlorophenol	95-57-8		U	353	177
2-Methylnaphthalene	91-57-6		U	353	177
2-Methylphenol	95-48-7		U	353	177
2-Nitroaniline	88-74-4		U	1770	882
2-Nitrophenol	88-75-5		U	353	177
3,3'-Dichlorobenzidine	91-94-1		U	706	353
3-,4-Methylphenol	106-44-5		U	353	177
3-Nitroaniline	99-09-2		U	1770	882
4,6-Dinitro-2-methylphenol	534-52-1		U	1770	882
4-Bromophenyl phenyl ether	101-55-3		U	353	177
4-Chloro-3-methylphenol	59-50-7		U	353	177
4-Chloroaniline	106-47-8		U	353	177
4-Chlorophenyl phenyl ether	7005-72-3		U	353	177
4-Nitroaniline	100-01-6		U	1770	882
4-Nitrophenol	100-02-7		U	1770	882
Acenaphthene	83-32-9		U	353	177
Acenaphthylene	208-96-8		U	353	177
Anthracene	120-12-7		U	353	177
Benzo(a)anthracene	56-55-3		U	353	177
Benzo(a)pyrene	50-32-8		U	353	177
Benzo(b)fluoranthene	205-99-2		U	353	177
Benzo(g,h,i)Perylene	191-24-2		U	353	177
Benzo(k)fluoranthene	207-08-9		U	353	177
Bis(2-Chloroethoxy)Methane	111-91-1		U	353	177
Bis(2-Chloroethyl)ether	111-44-4		U	353	177
bis(2-Chloroisopropyl)ether	39638-32-9		U	353	177
bis(2-Ethylhexyl)phthalate	117-81-7		U	353	177
Butyl benzyl phthalate	85-68-7		U	353	177
Carbazole	86-74-8		U	353	177
Chrysene	218-01-9		U	353	177
Dibenz(a,h)anthracene	53-70-3		U	353	177
Dibenzofuran	132-64-9		U	353	177
Diethyl phthalate	84-66-2		U	353	177
Dimethyl phthalate	131-11-3		U	353	177
Di-N-Butylphthalate	84-74-2		U	353	177
Di-n-octyl phthalate	117-84-0		U	353	177
Fluoranthene	206-44-0		U	353	177
Fluorene	86-73-7		U	353	177
Hexachlorobenzene	118-74-1		U	353	177
Hexachlorobutadiene	87-68-3		U	353	177
Hexachlorocyclopentadiene	77-47-4		U	353	177
Hexachloroethane	67-72-1		U	353	177
Indeno(1,2,3-cd)pyrene	193-39-5		U	353	177
Isophorone	78-59-1		U	353	177
Naphthalene	91-20-3		U	353	177
Nitrobenzene	98-95-3		U	353	177
N-Nitrosodiphenylamine	86-30-6		U	353	177
N-Nitrosodipropylamine	621-64-7		U	353	177
Pentachlorophenol	87-86-5		U	1770	882
Phenanthrene	85-01-8		U	353	177
Phenol	108-95-2		U	353	177

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-03	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0138-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 19:19
Collect Date:	05/07/2008 09:50	Dilution:	2	File ID:	12M21702
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	89.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	353	177

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	33.0	19	122	
2-Fluorobiphenyl	46.4	30	115	
2-Fluorophenol	50.0	25	121	
Nitrobenzene-d5	46.2	23	120	
p-Terphenyl-d14	80.6	18	137	
Phenol-d5	48.6	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-04**
Client ID: **0138-SO01-050708 D**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 09:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 19:54**
File ID: **12M21703**
Percent Solid: **92.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	356	178
2,4,6-Trichlorophenol	88-06-2		U	356	178
2,4-Dichlorophenol	120-83-2		U	356	178
2,4-Dimethylphenol	105-67-9		U	356	178
2,4-Dinitrophenol	51-28-5		U	1780	889
2,4-Dinitrotoluene	121-14-2		U	356	178
2,6-Dinitrotoluene	606-20-2		U	356	178
2-Chloronaphthalene	91-58-7		U	356	178
2-Chlorophenol	95-57-8		U	356	178
2-Methylnaphthalene	91-57-6		U	356	178
2-Methylphenol	95-48-7		U	356	178
2-Nitroaniline	88-74-4		U	1780	889
2-Nitrophenol	88-75-5		U	356	178
3,3'-Dichlorobenzidine	91-94-1		U	712	356
3-,4-Methylphenol	106-44-5		U	356	178
3-Nitroaniline	99-09-2		U	1780	889
4,6-Dinitro-2-methylphenol	534-52-1		U	1780	889
4-Bromophenyl phenyl ether	101-55-3		U	356	178
4-Chloro-3-methylphenol	59-50-7		U	356	178
4-Chloroaniline	106-47-8		U	356	178
4-Chlorophenyl phenyl ether	7005-72-3		U	356	178
4-Nitroaniline	100-01-6		U	1780	889
4-Nitrophenol	100-02-7		U	1780	889
Acenaphthene	83-32-9		U	356	178
Acenaphthylene	208-96-8		U	356	178
Anthracene	120-12-7		U	356	178
Benzo(a)anthracene	56-55-3		U	356	178
Benzo(a)pyrene	50-32-8		U	356	178
Benzo(b)fluoranthene	205-99-2		U	356	178
Benzo(g,h,i)Perylene	191-24-2		U	356	178
Benzo(k)fluoranthene	207-08-9		U	356	178
Bis(2-Chloroethoxy)Methane	111-91-1		U	356	178
Bis(2-Chloroethyl)ether	111-44-4		U	356	178
bis(2-Chloroisopropyl)ether	39638-32-9		U	356	178
bis(2-Ethylhexyl)phthalate	117-81-7		U	356	178
Butyl benzyl phthalate	85-68-7		U	356	178
Carbazole	86-74-8		U	356	178
Chrysene	218-01-9		U	356	178
Dibenz(a,h)anthracene	53-70-3		U	356	178
Dibenzofuran	132-64-9		U	356	178
Diethyl phthalate	84-66-2		U	356	178
Dimethyl phthalate	131-11-3		U	356	178
Di-N-Butylphthalate	84-74-2		U	356	178
Di-n-octyl phthalate	117-84-0		U	356	178
Fluoranthene	206-44-0		U	356	178
Fluorene	86-73-7		U	356	178
Hexachlorobenzene	118-74-1		U	356	178
Hexachlorobutadiene	87-68-3		U	356	178
Hexachlorocyclopentadiene	77-47-4		U	356	178
Hexachloroethane	67-72-1		U	356	178
Indeno(1,2,3-cd)pyrene	193-39-5		U	356	178
Isophorone	78-59-1		U	356	178
Naphthalene	91-20-3		U	356	178
Nitrobenzene	98-95-3		U	356	178
N-Nitrosodiphenylamine	86-30-6		U	356	178
N-Nitrosodipropylamine	621-64-7		U	356	178
Pentachlorophenol	87-86-5		U	1780	889
Phenanthrene	85-01-8		U	356	178
Phenol	108-95-2		U	356	178

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-04	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0138-SO01-050708 D	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 19:54
Collect Date:	05/07/2008 09:50	Dilution:	2	File ID:	12M21703
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	92.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	356	178

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	38.1	19	122	
2-Fluorobiphenyl	54.0	30	115	
2-Fluorophenol	56.6	25	121	
Nitrobenzene-d5	49.1	23	120	
p-Terphenyl-d14	83.8	18	137	
Phenol-d5	53.4	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-05**
Client ID: **0145-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 10:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 17:32**
File ID: **12M21699**
Percent Solid: **86.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	186	92.8
2,4,6-Trichlorophenol	88-06-2		U	186	92.8
2,4-Dichlorophenol	120-83-2		U	186	92.8
2,4-Dimethylphenol	105-67-9		U	186	92.8
2,4-Dinitrophenol	51-28-5		U	928	463
2,4-Dinitrotoluene	121-14-2		U	186	92.8
2,6-Dinitrotoluene	606-20-2		U	186	92.8
2-Chloronaphthalene	91-58-7		U	186	92.8
2-Chlorophenol	95-57-8		U	186	92.8
2-Methylnaphthalene	91-57-6		U	186	92.8
2-Methylphenol	95-48-7		U	186	92.8
2-Nitroaniline	88-74-4		U	928	463
2-Nitrophenol	88-75-5		U	186	92.8
3,3'-Dichlorobenzidine	91-94-1		U	371	186
3-,4-Methylphenol	106-44-5		U	186	92.8
3-Nitroaniline	99-09-2		U	928	463
4,6-Dinitro-2-methylphenol	534-52-1		U	928	463
4-Bromophenyl phenyl ether	101-55-3		U	186	92.8
4-Chloro-3-methylphenol	59-50-7		U	186	92.8
4-Chloroaniline	106-47-8		U	186	92.8
4-Chlorophenyl phenyl ether	7005-72-3		U	186	92.8
4-Nitroaniline	100-01-6		U	928	463
4-Nitrophenol	100-02-7		U	928	463
Acenaphthene	83-32-9		U	186	92.8
Acenaphthylene	208-96-8		U	186	92.8
Anthracene	120-12-7		U	186	92.8
Benzo(a)anthracene	56-55-3		U	186	92.8
Benzo(a)pyrene	50-32-8		U	186	92.8
Benzo(b)fluoranthene	205-99-2		U	186	92.8
Benzo(g,h,i)Perylene	191-24-2		U	186	92.8
Benzo(k)fluoranthene	207-08-9		U	186	92.8
Bis(2-Chloroethoxy)Methane	111-91-1		U	186	92.8
Bis(2-Chloroethyl)ether	111-44-4		U	186	92.8
bis(2-Chloroisopropyl)ether	39638-32-9		U	186	92.8
bis(2-Ethylhexyl)phthalate	117-81-7		U	186	92.8
Butyl benzyl phthalate	85-68-7		U	186	92.8
Carbazole	86-74-8		U	186	92.8
Chrysene	218-01-9		U	186	92.8
Dibenz(a,h)anthracene	53-70-3		U	186	92.8
Dibenzofuran	132-64-9		U	186	92.8
Diethyl phthalate	84-66-2		U	186	92.8
Dimethyl phthalate	131-11-3		U	186	92.8
Di-N-Butylphthalate	84-74-2		U	186	92.8
Di-n-octyl phthalate	117-84-0		U	186	92.8
Fluoranthene	206-44-0		U	186	92.8
Fluorene	86-73-7		U	186	92.8
Hexachlorobenzene	118-74-1		U	186	92.8
Hexachlorobutadiene	87-68-3		U	186	92.8
Hexachlorocyclopentadiene	77-47-4		U	186	92.8
Hexachloroethane	67-72-1		U	186	92.8
Indeno(1,2,3-cd)pyrene	193-39-5		U	186	92.8
Isophorone	78-59-1		U	186	92.8
Naphthalene	91-20-3		U	186	92.8
Nitrobenzene	98-95-3		U	186	92.8
N-Nitrosodiphenylamine	86-30-6		U	186	92.8
N-Nitrosodipropylamine	621-64-7		U	186	92.8
Pentachlorophenol	87-86-5		U	928	463
Phenanthrene	85-01-8		U	186	92.8
Phenol	108-95-2		U	186	92.8

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-05	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0145-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 17:32
Collect Date:	05/07/2008 10:50	Dilution:	1	File ID:	12M21699
Sample Tag:	01	Units:	ug/kg	Percent Solid:	86.3

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	186	92.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	29.2	19	122	
2-Fluorobiphenyl	44.1	30	115	
2-Fluorophenol	48.3	25	121	
Nitrobenzene-d5	47.4	23	120	
p-Terphenyl-d14	86.2	18	137	
Phenol-d5	47.4	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-06**
Client ID: **0141-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 18:08**
File ID: **12M21700**
Percent Solid: **85.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	186	92.9
2,4,6-Trichlorophenol	88-06-2		U	186	92.9
2,4-Dichlorophenol	120-83-2		U	186	92.9
2,4-Dimethylphenol	105-67-9		U	186	92.9
2,4-Dinitrophenol	51-28-5		U	929	464
2,4-Dinitrotoluene	121-14-2		U	186	92.9
2,6-Dinitrotoluene	606-20-2		U	186	92.9
2-Chloronaphthalene	91-58-7		U	186	92.9
2-Chlorophenol	95-57-8		U	186	92.9
2-Methylnaphthalene	91-57-6		U	186	92.9
2-Methylphenol	95-48-7		U	186	92.9
2-Nitroaniline	88-74-4		U	929	464
2-Nitrophenol	88-75-5		U	186	92.9
3,3'-Dichlorobenzidine	91-94-1		U	372	186
3-,4-Methylphenol	106-44-5		U	186	92.9
3-Nitroaniline	99-09-2		U	929	464
4,6-Dinitro-2-methylphenol	534-52-1		U	929	464
4-Bromophenyl phenyl ether	101-55-3		U	186	92.9
4-Chloro-3-methylphenol	59-50-7		U	186	92.9
4-Chloroaniline	106-47-8		U	186	92.9
4-Chlorophenyl phenyl ether	7005-72-3		U	186	92.9
4-Nitroaniline	100-01-6		U	929	464
4-Nitrophenol	100-02-7		U	929	464
Acenaphthene	83-32-9		U	186	92.9
Acenaphthylene	208-96-8		U	186	92.9
Anthracene	120-12-7		U	186	92.9
Benzo(a)anthracene	56-55-3		U	186	92.9
Benzo(a)pyrene	50-32-8		U	186	92.9
Benzo(b)fluoranthene	205-99-2		U	186	92.9
Benzo(g,h,i)Perylene	191-24-2		U	186	92.9
Benzo(k)fluoranthene	207-08-9		U	186	92.9
Bis(2-Chloroethoxy)Methane	111-91-1		U	186	92.9
Bis(2-Chloroethyl)ether	111-44-4		U	186	92.9
bis(2-Chloroisopropyl)ether	39638-32-9		U	186	92.9
bis(2-Ethylhexyl)phthalate	117-81-7		U	186	92.9
Butyl benzyl phthalate	85-68-7		U	186	92.9
Carbazole	86-74-8		U	186	92.9
Chrysene	218-01-9		U	186	92.9
Dibenz(a,h)anthracene	53-70-3		U	186	92.9
Dibenzofuran	132-64-9		U	186	92.9
Diethyl phthalate	84-66-2		U	186	92.9
Dimethyl phthalate	131-11-3		U	186	92.9
Di-N-Butylphthalate	84-74-2		U	186	92.9
Di-n-octyl phthalate	117-84-0		U	186	92.9
Fluoranthene	206-44-0		U	186	92.9
Fluorene	86-73-7		U	186	92.9
Hexachlorobenzene	118-74-1		U	186	92.9
Hexachlorobutadiene	87-68-3		U	186	92.9
Hexachlorocyclopentadiene	77-47-4		U	186	92.9
Hexachloroethane	67-72-1		U	186	92.9
Indeno(1,2,3-cd)pyrene	193-39-5		U	186	92.9
Isophorone	78-59-1		U	186	92.9
Naphthalene	91-20-3		U	186	92.9
Nitrobenzene	98-95-3		U	186	92.9
N-Nitrosodiphenylamine	86-30-6		U	186	92.9
N-Nitrosodipropylamine	621-64-7		U	186	92.9
Pentachlorophenol	87-86-5		U	929	464
Phenanthrene	85-01-8		U	186	92.9
Phenol	108-95-2		U	186	92.9

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-06	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0141-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 18:08
Collect Date:	05/07/2008 13:30	Dilution:	1	File ID:	12M21700
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.8

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	186	92.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	19.6	19	122	
2-Fluorobiphenyl	32.8	30	115	
2-Fluorophenol	34.7	25	121	
Nitrobenzene-d5	38.4	23	120	
p-Terphenyl-d14	80.1	18	137	
Phenol-d5	36.9	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-07**
Client ID: **0141-SO02-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 13:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 20:30**
File ID: **12M21704**
Percent Solid: **88.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	369	185
2,4,6-Trichlorophenol	88-06-2		U	369	185
2,4-Dichlorophenol	120-83-2		U	369	185
2,4-Dimethylphenol	105-67-9		U	369	185
2,4-Dinitrophenol	51-28-5		U	1850	922
2,4-Dinitrotoluene	121-14-2		U	369	185
2,6-Dinitrotoluene	606-20-2		U	369	185
2-Chloronaphthalene	91-58-7		U	369	185
2-Chlorophenol	95-57-8		U	369	185
2-Methylnaphthalene	91-57-6		U	369	185
2-Methylphenol	95-48-7		U	369	185
2-Nitroaniline	88-74-4		U	1850	922
2-Nitrophenol	88-75-5		U	369	185
3,3'-Dichlorobenzidine	91-94-1		U	738	369
3-,4-Methylphenol	106-44-5		U	369	185
3-Nitroaniline	99-09-2		U	1850	922
4,6-Dinitro-2-methylphenol	534-52-1		U	1850	922
4-Bromophenyl phenyl ether	101-55-3		U	369	185
4-Chloro-3-methylphenol	59-50-7		U	369	185
4-Chloroaniline	106-47-8		U	369	185
4-Chlorophenyl phenyl ether	7005-72-3		U	369	185
4-Nitroaniline	100-01-6		U	1850	922
4-Nitrophenol	100-02-7		U	1850	922
Acenaphthene	83-32-9	959		369	185
Acenaphthylene	208-96-8		U	369	185
Anthracene	120-12-7	2020		369	185
Benzo(a)anthracene	56-55-3	3010		369	185
Benzo(a)pyrene	50-32-8	2420		369	185
Benzo(b)fluoranthene	205-99-2	2950		369	185
Benzo(g,h,i)Perylene	191-24-2	902		369	185
Benzo(k)fluoranthene	207-08-9	1410		369	185
Bis(2-Chloroethoxy)Methane	111-91-1		U	369	185
Bis(2-Chloroethyl)ether	111-44-4		U	369	185
bis(2-Chloroisopropyl)ether	39638-32-9		U	369	185
bis(2-Ethylhexyl)phthalate	117-81-7		U	369	185
Butyl benzyl phthalate	85-68-7		U	369	185
Carbazole	86-74-8	974		369	185
Chrysene	218-01-9	2720		369	185
Dibenz(a,h)anthracene	53-70-3	522		369	185
Dibenzofuran	132-64-9	762		369	185
Diethyl phthalate	84-66-2		U	369	185
Dimethyl phthalate	131-11-3		U	369	185
Di-N-Butylphthalate	84-74-2		U	369	185
Di-n-octyl phthalate	117-84-0		U	369	185
Fluoranthene	206-44-0	6780		369	185
Fluorene	86-73-7	1180		369	185
Hexachlorobenzene	118-74-1		U	369	185
Hexachlorobutadiene	87-68-3		U	369	185
Hexachlorocyclopentadiene	77-47-4		U	369	185
Hexachloroethane	67-72-1		U	369	185
Indeno(1,2,3-cd)pyrene	193-39-5	927		369	185
Isophorone	78-59-1		U	369	185
Naphthalene	91-20-3		U	369	185
Nitrobenzene	98-95-3		U	369	185
N-Nitrosodiphenylamine	86-30-6		U	369	185
N-Nitrosodipropylamine	621-64-7		U	369	185
Pentachlorophenol	87-86-5		U	1850	922
Phenanthrene	85-01-8	6930		369	185
Phenol	108-95-2		U	369	185

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-07	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0141-SO02-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 20:30
Collect Date:	05/07/2008 13:40	Dilution:	2	File ID:	12M21704
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	88.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0	5050		369	185

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	29.3	19	122	
2-Fluorobiphenyl	36.9	30	115	
2-Fluorophenol	33.6	25	121	
Nitrobenzene-d5	35.3	23	120	
p-Terphenyl-d14	81.9	18	137	
Phenol-d5	35.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number: **L08050149-08**
Client ID: **0146-SO01-050708**
Matrix: **Soil**
Workgroup Number: **WG271106**
Collect Date: **05/07/2008 14:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/09/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/12/2008 18:43**
File ID: **12M21701**
Percent Solid: **82.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	194	96.9
2,4,6-Trichlorophenol	88-06-2		U	194	96.9
2,4-Dichlorophenol	120-83-2		U	194	96.9
2,4-Dimethylphenol	105-67-9		U	194	96.9
2,4-Dinitrophenol	51-28-5		U	969	484
2,4-Dinitrotoluene	121-14-2		U	194	96.9
2,6-Dinitrotoluene	606-20-2		U	194	96.9
2-Chloronaphthalene	91-58-7		U	194	96.9
2-Chlorophenol	95-57-8		U	194	96.9
2-Methylnaphthalene	91-57-6		U	194	96.9
2-Methylphenol	95-48-7		U	194	96.9
2-Nitroaniline	88-74-4		U	969	484
2-Nitrophenol	88-75-5		U	194	96.9
3,3'-Dichlorobenzidine	91-94-1		U	388	194
3-,4-Methylphenol	106-44-5		U	194	96.9
3-Nitroaniline	99-09-2		U	969	484
4,6-Dinitro-2-methylphenol	534-52-1		U	969	484
4-Bromophenyl phenyl ether	101-55-3		U	194	96.9
4-Chloro-3-methylphenol	59-50-7		U	194	96.9
4-Chloroaniline	106-47-8		U	194	96.9
4-Chlorophenyl phenyl ether	7005-72-3		U	194	96.9
4-Nitroaniline	100-01-6		U	969	484
4-Nitrophenol	100-02-7		U	969	484
Acenaphthene	83-32-9		U	194	96.9
Acenaphthylene	208-96-8		U	194	96.9
Anthracene	120-12-7		U	194	96.9
Benzo(a)anthracene	56-55-3		U	194	96.9
Benzo(a)pyrene	50-32-8		U	194	96.9
Benzo(b)fluoranthene	205-99-2		U	194	96.9
Benzo(g,h,i)Perylene	191-24-2		U	194	96.9
Benzo(k)fluoranthene	207-08-9		U	194	96.9
Bis(2-Chloroethoxy)Methane	111-91-1		U	194	96.9
Bis(2-Chloroethyl)ether	111-44-4		U	194	96.9
bis(2-Chloroisopropyl)ether	39638-32-9		U	194	96.9
bis(2-Ethylhexyl)phthalate	117-81-7		U	194	96.9
Butyl benzyl phthalate	85-68-7		U	194	96.9
Carbazole	86-74-8		U	194	96.9
Chrysene	218-01-9		U	194	96.9
Dibenz(a,h)anthracene	53-70-3		U	194	96.9
Dibenzofuran	132-64-9		U	194	96.9
Diethyl phthalate	84-66-2		U	194	96.9
Dimethyl phthalate	131-11-3		U	194	96.9
Di-N-Butylphthalate	84-74-2		U	194	96.9
Di-n-octyl phthalate	117-84-0		U	194	96.9
Fluoranthene	206-44-0		U	194	96.9
Fluorene	86-73-7		U	194	96.9
Hexachlorobenzene	118-74-1		U	194	96.9
Hexachlorobutadiene	87-68-3		U	194	96.9
Hexachlorocyclopentadiene	77-47-4		U	194	96.9
Hexachloroethane	67-72-1		U	194	96.9
Indeno(1,2,3-cd)pyrene	193-39-5		U	194	96.9
Isophorone	78-59-1		U	194	96.9
Naphthalene	91-20-3		U	194	96.9
Nitrobenzene	98-95-3		U	194	96.9
N-Nitrosodiphenylamine	86-30-6		U	194	96.9
N-Nitrosodipropylamine	621-64-7		U	194	96.9
Pentachlorophenol	87-86-5		U	969	484
Phenanthrene	85-01-8		U	194	96.9
Phenol	108-95-2		U	194	96.9

Report Number: **L08050149**
Report Date : **May 23, 2008**

Sample Number:	L08050149-08	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0146-SO01-050708	Prep Method:	3545	Prep Date:	05/09/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271106	Analyst:	MES	Run Date:	05/12/2008 18:43
Collect Date:	05/07/2008 14:10	Dilution:	1	File ID:	12M21701
Sample Tag:	01	Units:	ug/kg	Percent Solid:	82.2

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	194	96.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	26.9	19	122	
2-Fluorobiphenyl	46.8	30	115	
2-Fluorophenol	43.7	25	121	
Nitrobenzene-d5	50.1	23	120	
p-Terphenyl-d14	89.3	18	137	
Phenol-d5	46.8	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet

Microbac

Parameter: BNA Soil SOP #: EXA5E01 Revision #: 10
Extraction Analyst(s): RAH, CAF TV/KD Analyst(s): CPD
Date/Time Extracted: 5/9/08 0800 Date TV/KD: 5-9-08
Spike/Surrogate Analyst: RAH Witness: CAF
Surrogate #: STD253796 Earliest Hold Date: 5/21/08
Spike #: A = STD25007 Spike #: B = —

Extraction Work Group WG270790
Extract Relinquished By: CSH
Extract Received By & Date: mlc 5/10/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500uL		1mL	T				WG270790-02
2	LCS					1		500uL		C				WG -03
3	05-0148-02	827-SPE				20.56g				C				
4	-04 RDF					20.61g				O				WG270790-01
5	-06 MS					20.51g		500uL		O				-04
6	-08 MSD					20.52g		1		O				-05
7	-10					18.21g				E				mud
8	-12					20.30g				C				
9	05-0149-01					20.98g				C				
10	-02					20.94g				C				
11	-03					20.90g				O				
12	-04					20.06g				O				
13	-05					20.60g				C				
14	-06					20.70g				C				
15	-07					20.18g				O				
16	-08					20.72g				C				
17	05-0082-02					20.96g				C				Re Ext in Hold
18	-05					20.28g				C				
19	-09					20.01g				C				1
20														
21														
22														
23														
24														

CPD 5-9-08

Methylene Chloride Lot #: GX6E27
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: E11H04
Reagent: — Lot #: —
Acid: 1:1 Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: COA12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Christi Davis Date: 5-9-08

Extraction Notes For Volume # 298 Page # 197

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: NA

Supervisor Review: _____ Date: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21387	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:29
2	12M21388	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:45
3	12M21389	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:06
4	12M21390	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 09:25
5	12M21391	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:58
6	12M21392	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 10:17
7	12M21393	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 11:21
8	12M21394	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 11:40
9	12M21395	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 12:44
10	12M21396	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:03
11	12M21397	WG269466-03 3 PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:39
12	12M21398	WG269466-04 10 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:14
13	12M21399	WG269466-05 15 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:51
14	12M21400	WG269466-06 25 PPM MEGAMIX STD	1	1	STD25568	04/25/08 15:26
15	12M21401	WG269466-07 80 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:01
16	12M21402	WG269466-08 100 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:36
17	12M21403	WG269466-09 120 PPM MEGAMIX STD	1	1	STD25568	04/25/08 17:11
18	12M21404	WG269466-10 50PPM BNA ALT SOURCE	1	1	STD24887	04/25/08 17:46
19	12M21405	WG269466-11 50PPM A9 ALT SOURCE	1	1	STD24013	04/25/08 18:21
20	12M21406	WG268690-02 BLANK EP0297 PG139	17	1		04/25/08 18:56
21	12M21407	L08040535-01 D1 50X SOIL	10	50		04/25/08 19:31
22	12M21408	L08040356-01 2X	1	2		04/25/08 20:06
23	12M21409	L08040356-03 D1 5X	1	5		04/25/08 20:41
24	12M21410	L08040356-03 D2 50X	1	50		04/25/08 21:16
25	12M21411	L08040356-04	1	1		04/25/08 21:51
26	12M21412	L08040356-04 D1 5X	1	5		04/25/08 22:27
27	12M21413	L08040398-01 TCLP	17	1		04/25/08 23:02
28	12M21414	WG268690-01 L08040398-02 TCLP	17	1		04/25/08 23:37
29	12M21415	WG268690-05 L08040398-02 MS TCLP	17	1		04/26/08 00:13
30	12M21416	L08040398-03 TCLP	17	1		04/26/08 00:48
31	12M21417	BAKE OUT	1	1		04/26/08 01:23
32	12M21418	BAKE OUT	1	1		04/26/08 01:58

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1 Approved: 27-APR-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
2				
	RR DFTPP failed. Retuned MS.			
4				
	Internals low-increased voltage-restarting.			
6				
	Hexachlorobutadiene high. Clipping column-change gold seal.			
8				
	Hexachlorobutadiene high-changing liner.			
22	X	10	Over Calibration Range	12,17,19,22,38
	tph is low. PHL is <10% due to SMI. Not reextracting.			
25				
	Do not report-IS fails.			
30	X	1	Missed Tune	

Page: 2 Approved: 27-APR-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051208
Analyst1: CAA Analyst2: MES
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24110

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271106

Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21684	WG270954-01 50PPM DFTPP STD	1	1	STD25193	05/12/08 08:52
2	12M21685	WG270954-02 50PPM MEGAMIX STD	1	1	STD25568	05/12/08 09:10
3	12M21686	WG270790-02 BLANK EP0298 PG197	7	1		05/12/08 09:49
4	12M21687	WG270790-03 LCS EP0298 PG197	7	1		05/12/08 10:25
5	12M21688	L08050082-02 SOIL	7	1		05/12/08 10:59
6	12M21689	L08050082-05 SOIL	7	1		05/12/08 11:34
7	12M21690	L08050082-09 SOIL	7	1		05/12/08 12:09
8	12M21691	L08050148-02 SOIL	7	1		05/12/08 12:45
9	12M21692	L08050148-10 SOIL	7	1	SOIL	05/12/08 13:21
10	12M21693	L08050148-12 SOIL	7	1	SOIL	05/12/08 13:57
11	12M21694	WG270790-01 L08050148-04 2X SOIL	7	2	SOIL	05/12/08 14:32
12	12M21695	WG270790-04 L08050148-06 2X MS SOIL	7	2	SOIL	05/12/08 15:09
13	12M21696	WG270790-05 L08050148-08 2X MSD SOIL	7	2	SOIL	05/12/08 15:45
14	12M21697	L08050149-01 SOIL	7	1	SOIL	05/12/08 16:20
15	12M21698	L08050149-02 SOIL	7	1	SOIL	05/12/08 16:56
16	12M21699	L08050149-05 SOIL	7	1	SOIL	05/12/08 17:32
17	12M21700	L08050149-06 SOIL	7	1	SOIL	05/12/08 18:08
18	12M21701	L08050149-08 SOIL	7	1	SOIL	05/12/08 18:43
19	12M21702	L08050149-03 2X SOIL	7	2	SOIL	05/12/08 19:19
20	12M21703	L08050149-04 2X SOIL	7	2	SOIL	05/12/08 19:54
21	12M21704	L08050149-07 2X SOIL	7	2	SOIL	05/12/08 20:30
22	12M21705	BAKE OUT	1	1		05/12/08 21:06
23	12M21706	BAKE OUT	1	1		05/12/08 21:42

Comments

Seq.	Rerun	Dil.	Reason	Analytes
5				
	L08050082-02 SOIL - SS TBP low.			
6				
	L08050082-05 SOIL - SS TBP low.			
7				
	L08050082-09 SOIL - SS TBP, 2FP, PHL low.			
12				
	WG270790-04 L08050148-06 2X MS SOIL - 10 compounds low.			
13				

Page: 1 Approved: 13-MAY-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051208

Analyst1: CAA Analyst2: MES

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24110

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271106

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
			WG270790-05 L08050148-08 2X MSD SOIL - 8 compounds low.	

Page: 2 Approved: 13-MAY-08

Microbac Laboratories Inc.

Data Checklist

Date: 25-APR-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 21849
Analytical Workgroups: L08040356,L08040535,L0804398

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
26-APR-2008

Secondary Reviewer:
27-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-27-2008 16:24:20

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: CAA
Analyst: MES
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22148
Analytical Workgroups: L08050082(RE), L08050148, L08050149

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
13-MAY-2008

Secondary Reviewer:
13-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 14:43:51

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271106

Login Number: L08050149

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0139-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.95	05/12/08	40	3.35	
0138-SO01-050708 D	05/07/08	05/08/08	05/09/08	14	1.92	05/12/08	40	3.50	
0138-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.92	05/12/08	40	3.47	
0146-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.74	05/12/08	40	3.45	
0145-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.88	05/12/08	40	3.40	
0141-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.77	05/12/08	40	3.42	
0137-SO01-050708	05/07/08	05/08/08	05/09/08	14	1.94	05/12/08	40	3.37	
0141-SO02-050708	05/07/08	05/08/08	05/09/08	14	1.76	05/12/08	40	3.52	

* EXT = SEE PROJECT QAPP REQUIREMENTS
*ANAL = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1092264
Report generated 05/13/2008 14:42

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050149
Instrument Id: HPMS12
Workgroup (AAB#): WG271106

Method: 8270
CAL ID: HPMS12-25-APR-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050149-01	1.00	01	36.5	55.1	56.8	54.8	118	54.6
L08050149-02	1.00	01	37.0	51.0	60.0	55.9	95.0	57.1
L08050149-03	2.00	DL01	33.0	46.4	50.0	46.2	80.6	48.6
L08050149-04	2.00	DL01	38.1	54.0	56.6	49.1	83.8	53.4
L08050149-05	1.00	01	29.2	44.1	48.3	47.4	86.2	47.4
L08050149-06	1.00	01	19.6	32.8	34.7	38.4	80.1	36.9
L08050149-07	2.00	DL01	29.3	36.9	33.6	35.3	81.9	35.8
L08050149-08	1.00	01	26.9	46.8	43.7	50.1	89.3	46.8
WG270790-02	1.00	01	60.9	52.1	51.3	49.0	99.7	50.7
WG270790-03	1.00	01	73.2	55.6	56.5	58.1	96.8	58.5

Surrogates	Surrogate Limits
1 - 2,4,6-Tribromophenol	19 - 122
2 - 2-Fluorobiphenyl	30 - 115
3 - 2-Fluorophenol	25 - 121
4 - Nitrobenzene-d5	23 - 120
5 - p-Terphenyl-d14	18 - 137
6 - Phenol-d5	24 - 113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1091998
Report generated: 05/13/2008 14:12

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050149
Work Group: WG271106
Blank File ID: 12M21686
Blank Sample ID: WG270790-02
Prep Date: 05/09/08 08:00
Instrument ID: HPMS12
Analyzed Date: 05/12/08 09:49
Method: 8270C
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG270790-03	12M21687	05/12/08 10:25	01
0139-SO01-050708	L08050149-01	12M21697	05/12/08 16:20	01
0137-SO01-050708	L08050149-02	12M21698	05/12/08 16:56	01
0145-SO01-050708	L08050149-05	12M21699	05/12/08 17:32	01
0141-SO01-050708	L08050149-06	12M21700	05/12/08 18:08	01
0146-SO01-050708	L08050149-08	12M21701	05/12/08 18:43	01
0138-SO01-050708	L08050149-03	12M21702	05/12/08 19:19	DL01
0138-SO01-050708 D	L08050149-04	12M21703	05/12/08 19:54	DL01
0141-SO02-050708	L08050149-07	12M21704	05/12/08 20:30	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1092265
Report generated 05/13/2008 14:42

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050149 Prep Date:05/09/08 08:00 Sample ID:WG270790-02
Instrument ID:HPMS12 Run Date:05/12/08 09:49 Prep Method:3545
File ID:12M21686 Analyst:MES Method:8270C
Workgroup (AAB#):WG271106 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1091996
13-MAY-2008 14:42

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050149 Prep Date: 05/09/08 08:00 Sample ID: WG270790-02
Instrument ID: HPMS12 Run Date: 05/12/08 09:49 Prep Method: 3545
File ID: 12M21686 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271106 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	60.9	19 - 122	PASS
2-Fluorobiphenyl	52.1	30 - 115	PASS
2-Fluorophenol	51.3	25 - 121	PASS
Nitrobenzene-d5	49.0	23 - 120	PASS
p-Terphenyl-d14	99.7	18 - 137	PASS
Phenol-d5	50.7	24 - 113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

Report Name:BLANK
PDF ID: 1091996
13-MAY-2008 14:42

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270790-03
Instrument ID: HPMS12 Run Time: 10:25 Prep Method: 3545
File ID: 12M21687 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271106 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS12-25-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4,5-Trichlorophenol	2500	1610	64.2	49 - 125	
2,4,6-Trichlorophenol	2500	1620	64.9	43 - 125	
2,4-Dichlorophenol	2500	1380	55.1	45 - 125	
2,4-Dimethylphenol	2500	1360	54.3	32 - 125	
2,4-Dinitrophenol	2500	2080	83.2	25 - 132	
2,4-Dinitrotoluene	2500	2030	81.3	48 - 125	
2,6-Dinitrotoluene	2500	1640	65.8	48 - 125	
2-Chloronaphthalene	2500	1220	48.7	45 - 125	
2-Chlorophenol	2500	1420	57.0	44 - 125	
2-Methylnaphthalene	2500	1330	53.2	47 - 125	
2-Methylphenol	2500	1400	56.1	40 - 125	
2-Nitroaniline	2500	1750	70.2	44 - 125	
2-Nitrophenol	2500	1360	54.4	42 - 125	
3,3'-Dichlorobenzidine	2500	2410	96.3	20 - 128	
3-,4-Methylphenol	2500	1570	62.9	50 - 120	
3-Nitroaniline	2500	1740	69.7	27 - 125	
4,6-Dinitro-2-methylphenol	2500	2360	94.4	29 - 137	
4-Bromophenyl phenyl ether	2500	1380	55.3	46 - 125	
4-Chloro-3-methylphenol	2500	1450	57.9	46 - 125	
4-Chloroaniline	2500	1200	48.0	20 - 120	
4-Chlorophenyl phenyl ether	2500	1460	58.2	47 - 125	
4-Nitroaniline	2500	1740	69.7	34 - 125	
4-Nitrophenol	2500	2130	85.3	25 - 138	
Acenaphthene	2500	1500	59.9	46 - 125	
Acenaphthylene	2500	1480	59.3	44 - 125	
Anthracene	2500	1870	74.7	53 - 125	
Benzo(a)anthracene	2500	2450	97.8	52 - 125	
Benzo(a)pyrene	2500	2530	101	50 - 125	
Benzo(b)fluoranthene	2500	2510	100	45 - 125	
Benzo(g,h,i)Perylene	2500	2390	95.4	38 - 126	
Benzo(k)fluoranthene	2500	2600	104	45 - 125	
Bis(2-Chloroethoxy)Methane	2500	1330	53.1	43 - 125	
Bis(2-Chloroethyl)ether	2500	1390	55.6	38 - 125	
bis(2-Chloroisopropyl)ether	2500	1510	60.3	25 - 125	
bis(2-Ethylhexyl)phthalate	2500	2660	106	47 - 127	
Butyl benzyl phthalate	2500	2620	105	49 - 125	
Carbazole	2500	2000	79.9	40 - 135	
Chrysene	2500	2520	101	53 - 125	
Dibenz(a,h)anthracene	2500	2270	90.7	41 - 125	
Dibenzofuran	2500	1500	60.1	51 - 125	
Diethyl phthalate	2500	1840	73.5	50 - 125	

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270790-03
Instrument ID: HPMS12 Run Time: 10:25 Prep Method: 3545
File ID: 12M21687 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271106 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS12-25-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Dimethyl phthalate	2500	1630	65.3	49 - 125	
Di-N-Butylphthalate	2500	2150	86.0	56 - 125	
Di-n-octyl phthalate	2500	2610	104	41 - 132	
Fluoranthene	2500	2300	92.2	54 - 125	
Fluorene	2500	1520	60.9	49 - 125	
Hexachlorobenzene	2500	1830	73.0	47 - 125	
Hexachlorobutadiene	2500	1520	60.8	40 - 125	
Hexachlorocyclopentadiene	2500	1500	60.0	10 - 150	
Hexachloroethane	2500	1460	58.3	34 - 125	
Indeno(1,2,3-cd)pyrene	2500	2430	97.2	38 - 125	
Isophorone	2500	1550	61.9	43 - 125	
Naphthalene	2500	1280	51.2	40 - 125	
Nitrobenzene	2500	1370	55.0	41 - 125	
N-Nitrosodiphenylamine	2500	1360	54.5	49 - 125	
N-Nitrosodipropylamine	2500	1410	56.4	40 - 125	
Pentachlorophenol	2500	2150	86.0	25 - 125	
Phenanthrene	2500	1780	71.2	50 - 125	
Phenol	2500	1440	57.6	39 - 125	
Pyrene	2500	2400	96.0	46 - 125	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	73.2	19 - 122	PASS
2-Fluorobiphenyl	55.6	30 - 115	PASS
2-Fluorophenol	56.5	25 - 121	PASS
Nitrobenzene-d5	58.1	23 - 120	PASS
p-Terphenyl-d14	96.8	18 - 137	PASS
Phenol-d5	58.5	24 - 113	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1091997
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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050149
Instrument: HPMS12
Analyst: MES
Workgroup: WG269466

Tune ID: WG269466-01
Run Date: 04/25/2008
Run Time: 12:44
File ID: 12M21395
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.7	68129	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.6	73016	PASS
70.0	69.0	0	2.00	0.823	601	PASS
127	198	40.0	60.0	47.2	80904	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	171541	PASS
199	198	5.00	9.00	7.11	12203	PASS
275	198	10.0	30.0	28.8	49362	PASS
365	198	1.00	100	4.52	7750	PASS
441	443	0.0100	100	81.0	16290	PASS
442	198	40.0	100	60.4	103578	PASS
443	442	17.0	23.0	19.4	20104	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG269466-02	STD-CCV	01	04/25/2008 13:03	
WG269466-03	STD	01	04/25/2008 13:39	
WG269466-04	STD	01	04/25/2008 14:14	
WG269466-05	STD	01	04/25/2008 14:51	
WG269466-06	STD	01	04/25/2008 15:26	
WG269466-07	STD	01	04/25/2008 16:01	
WG269466-08	STD	01	04/25/2008 16:36	
WG269466-09	STD	01	04/25/2008 17:11	
WG269466-10	SSCV	01	04/25/2008 17:46	
WG269466-11	SSCV	01	04/25/2008 18:21	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1092268
Report generated 05/13/2008 14:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050149
Instrument: HPMS12
Analyst: MES
Workgroup: WG270954

Tune ID: WG270954-01
Run Date: 05/12/2008
Run Time: 08:52
File ID: 12M21684
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	37.4	55498	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	41.0	60922	PASS
70.0	69.0	0	2.00	0.478	291	PASS
127	198	40.0	60.0	45.3	67322	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	148501	PASS
199	198	5.00	9.00	7.36	10931	PASS
275	198	10.0	30.0	28.6	42410	PASS
365	198	1.00	100	4.02	5966	PASS
441	443	0.0100	100	79.7	13452	PASS
442	198	40.0	100	60.7	90074	PASS
443	442	17.0	23.0	18.7	16875	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270954-02	CCV	01	05/12/2008 09:10	
WG270790-02	BLANK	01	05/12/2008 09:49	
WG270790-03	LCS	01	05/12/2008 10:25	
WG270790-01	REF	DL01	05/12/2008 14:32	
WG270790-04	MS	DL01	05/12/2008 15:09	
WG270790-05	MSD	DL01	05/12/2008 15:45	
L08050149-01	0139-SO01-050708	01	05/12/2008 16:20	
L08050149-02	0137-SO01-050708	01	05/12/2008 16:56	
L08050149-05	0145-SO01-050708	01	05/12/2008 17:32	
L08050149-06	0141-SO01-050708	01	05/12/2008 18:08	
L08050149-08	0146-SO01-050708	01	05/12/2008 18:43	
L08050149-03	0138-SO01-050708	DL01	05/12/2008 19:19	
L08050149-04	0138-SO01-050708 D	DL01	05/12/2008 19:54	
L08050149-07	0141-SO02-050708	DL01	05/12/2008 20:30	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050149 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.4184	12.6		
2,4-Dichlorophenol	CCC	0.3488	10.2		
2-Nitrophenol	CCC	0.1857	15.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3870	7.61		
Acenaphthene	CCC	1.193	10.8		
Benzo[a]pyrene	CCC	1.217	8.97		
Di-n-Octyl Phthalate	CCC	1.218	15.7	0.998	
Fluoranthene	CCC	1.397	7.10		
Hexachlorobutadiene	CCC	0.3276	1.94		
Pentachlorophenol	CCC	0.1518	27.4	0.996	
Phenol	CCC	1.661	4.60		
n-Nitrosodiphenylamine	CCC	0.6676	7.80		
2,4-Dinitrophenol	SPCC	0.1449	38.6		0.999
4-Nitrophenol	SPCC	0.3133	6.27		
Hexachlorocyclopentadiene	SPCC	0.4039	22.4	0.999	
n-Nitrosodipropylamine	SPCC	1.032	3.83		
2,4,5-Trichlorophenol		0.4429	11.9		
2,4-Dimethylphenol		0.3697	10.3		
2,4-Dinitrotoluene		0.3792	14.5		
2,6-Dinitrotoluene		0.2941	9.67		
2-Chloronaphthalene		1.315	3.32		
2-Chlorophenol		1.236	5.81		
2-Methylnaphthalene		0.7859	6.94		
2-Methylphenol		1.020	7.51		
2-Nitroaniline		0.3601	4.92		
3,3'-Dichlorobenzidine		0.3636	16.5	0.999	
3-,4-Methylphenol		1.298	7.04		
3-Nitroaniline		0.3089	8.98		
4,6-Dinitro-2-Methylphenol		0.1347	28.2		0.999
4-Bromophenyl Phenyl Ether		0.2811	7.81		
4-Chloroaniline		0.5825	6.96		
4-Chlorophenyl Phenyl Ether		0.8612	3.69		
4-Nitroaniline		0.3089	8.98		
Acenaphthylene		1.775	6.34		
Anthracene		1.126	9.03		
Benzo[a]anthracene		1.309	5.38		
Benzo[b]fluoranthene		1.326	8.38		
Benzo[ghi]perylene		1.106	9.48		
Benzo[k]fluoranthene		1.269	5.91		
Butyl Benzyl Phthalate		0.5165	8.89		
Carbazole		0.9738	11.7		
Chrysene		1.186	5.12		
Di-n-Butyl Phthalate		1.286	8.69		
Dibenz[ah]anthracene		1.102	24.4	0.999	
Dibenzofuran		1.704	4.05		

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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050149 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.411	3.07		
Dimethylphthalate		1.337	3.14		
Fluorene		1.450	6.38		
Hexachlorobenzene		0.2639	8.27		
Hexachloroethane		0.6253	4.95		
Indeno[1,2,3-cd]pyrene		1.329	12.2		
Isophorone		0.7407	4.75		
Naphthalene		1.124	6.22		
Nitrobenzene		0.4858	5.44		
Phenanthrene		1.147	7.41		
Pyrene		1.286	5.08		
bis(2-Chloroethoxy)methane		0.4267	3.78		
bis(2-Chloroethyl)ether		0.8758	4.88		
bis(2-Chloroisopropyl)ether		1.246	2.66		
bis(2-Ethylhexyl)phthalate		0.6818	12.8		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	136367.000	0.4388	3.00	5918.00000	0.3142	10.0	23239.0000	0.3862
2,4-Dichlorophenol	50.0	158754.000	0.3588	3.00	7927.00000	0.2918	10.0	26920.0000	0.3173
2-Nitrophenol	50.0	86369.0000	0.1952	3.00	3432.00000	0.1263	10.0	14327.0000	0.1689
4-Chloro-3-Methylphenol	50.0	178838.000	0.4042	3.00	8857.00000	0.3260	10.0	30942.0000	0.3647
Acenaphthene	50.0	375627.000	1.209	3.00	18689.0000	0.9923	10.0	64516.0000	1.072
Benzo[a]pyrene	50.0	697864.000	1.374	3.00	32607.0000	1.036	10.0	123380.000	1.125
Di-n-Octyl Phthalate	50.0	749327.000	1.475	3.00	29699.0000	0.9436	10.0	111236.000	1.014
Fluoranthene	50.0	810612.000	1.296	3.00	42795.0000	1.234	10.0	154789.000	1.366
Hexachlorobutadiene	50.0	148516.000	0.3356	3.00	8617.00000	0.3172	10.0	28017.0000	0.3302
Pentachlorophenol	50.0	92466.0000	0.1479	NA	NA	NA	10.0	9878.00000	0.08720
Phenol	50.0	222209.000	1.683	3.00	12237.0000	1.552	10.0	38761.0000	1.581
n-Nitrosodiphenylamine	50.0	392845.000	0.6283	3.00	20330.0000	0.5860	10.0	72097.0000	0.6364
2,4-Dinitrophenol	50.0	39482.0000	0.1271	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	108610.000	0.3495	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	141345.000	0.4548	3.00	4274.00000	0.2269	10.0	19516.0000	0.3243
n-Nitrosodipropylamine	50.0	145764.000	1.104	3.00	7583.00000	0.9620	10.0	25176.0000	1.027
2,4,5-Trichlorophenol	50.0	144110.000	0.4637	3.00	6389.00000	0.3392	10.0	24278.0000	0.4035
2,4-Dimethylphenol	50.0	162609.000	0.3675	3.00	8024.00000	0.2954	10.0	28316.0000	0.3337
2,4-Dinitrotoluene	50.0	121879.000	0.3922	3.00	5034.00000	0.2673	10.0	20446.0000	0.3398
2,6-Dinitrotoluene	50.0	94251.0000	0.3033	3.00	4342.00000	0.2306	10.0	16831.0000	0.2797
2-Chloronaphthalene	50.0	407576.000	1.312	3.00	23579.0000	1.252	10.0	77192.0000	1.283
2-Chlorophenol	50.0	163796.000	1.241	3.00	8755.00000	1.111	10.0	29242.0000	1.193
2-Methylnaphthalene	50.0	340978.000	0.7706	3.00	19262.0000	0.7091	10.0	63484.0000	0.7482
2-Methylphenol	50.0	139033.000	1.053	3.00	7022.00000	0.8908	10.0	23075.0000	0.9411
2-Nitroaniline	50.0	122870.000	0.3954	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	252297.000	0.4242	3.00	9541.00000	0.2593	10.0	38536.0000	0.3037
3-,4-Methylphenol	50.0	174305.000	1.320	3.00	9115.00000	1.156	10.0	29102.0000	1.187
3-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	71843.0000	0.1149	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	160280.000	0.2563	3.00	8943.00000	0.2578	10.0	29851.0000	0.2635
4-Chloroaniline	50.0	256808.000	0.5804	3.00	14696.0000	0.5410	10.0	44482.0000	0.5243
4-Chlorophenyl Phenyl Ether	50.0	268008.000	0.8624	3.00	15432.0000	0.8194	10.0	49083.0000	0.8157
4-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	556722.000	1.792	3.00	30007.0000	1.593	10.0	99847.0000	1.659
Anthracene	50.0	659857.000	1.055	3.00	33177.0000	0.9564	10.0	122454.000	1.081
Benzo[a]anthracene	50.0	856517.000	1.440	3.00	44797.0000	1.217	10.0	155466.000	1.225
Benzo[b]fluoranthene	50.0	744041.000	1.465	3.00	35475.0000	1.127	10.0	137001.000	1.249
Benzo[ghi]perylene	50.0	634281.000	1.249	3.00	28793.0000	0.9148	10.0	110138.000	1.004
Benzo[k]fluoranthene	50.0	720586.000	1.418	3.00	36969.0000	1.175	10.0	135918.000	1.239
Butyl Benzyl Phthalate	50.0	353129.000	0.5938	3.00	16206.0000	0.4404	10.0	60984.0000	0.4806
Carbazole	50.0	583195.000	0.9327	3.00	27605.0000	0.7957	10.0	97064.0000	0.8567
Chrysene	50.0	780963.000	1.313	3.00	41677.0000	1.133	10.0	142455.000	1.123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	785864.000	1.257	3.00	37116.0000	1.070	10.0	136904.000	1.208
Dibenz[ah]anthracene	50.0	668824.000	1.317	3.00	15272.0000	0.4852	10.0	111770.000	1.019
Dibenzofuran	50.0	530596.000	1.707	3.00	29342.0000	1.558	10.0	100820.000	1.676
Diethylphthalate	50.0	452344.000	1.456	3.00	24871.0000	1.321	10.0	83818.0000	1.393
Dimethylphthalate	50.0	420899.000	1.354	3.00	23726.0000	1.260	10.0	78749.0000	1.309
Fluorene	50.0	454404.000	1.462	3.00	24326.0000	1.292	10.0	83747.0000	1.392
Hexachlorobenzene	50.0	147756.000	0.2363	3.00	8064.00000	0.2325	10.0	29006.0000	0.2560
Hexachloroethane	50.0	84931.0000	0.6433	3.00	4341.00000	0.5507	10.0	15476.0000	0.6312
Indeno[1,2,3-cd]pyrene	50.0	771409.000	1.519	3.00	32705.0000	1.039	10.0	128253.000	1.169
Isophorone	50.0	356238.000	0.8051	3.00	18428.0000	0.6784	10.0	61327.0000	0.7228
Naphthalene	50.0	496713.000	1.123	3.00	27895.0000	1.027	10.0	89924.0000	1.060
Nitrobenzene	50.0	230519.000	0.5210	3.00	12396.0000	0.4563	10.0	43364.0000	0.5111
Phenanthrene	50.0	673951.000	1.078	3.00	36064.0000	1.040	10.0	122363.000	1.080
Pyrene	50.0	858213.000	1.443	3.00	45464.0000	1.236	10.0	159485.000	1.257
bis(2-Chloroethoxy)methane	50.0	196099.000	0.4432	3.00	10594.0000	0.3900	10.0	36560.0000	0.4309
bis(2-Chloroethyl)ether	50.0	120076.000	0.9095	3.00	7560.00000	0.9591	10.0	21099.0000	0.8605
bis(2-Chloroisopropyl)ether	50.0	168561.000	1.277	3.00	9772.00000	1.240	10.0	31239.0000	1.274
bis(2-Ethylhexyl)phthalate	50.0	473337.000	0.7959	3.00	19278.0000	0.5239	10.0	77603.0000	0.6115

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	37239.0000	0.3892	25.0	98728.0000	0.4309	80.0	279987.000	0.4502
2,4-Dichlorophenol	15.0	43596.0000	0.3229	25.0	114408.000	0.3521	80.0	319185.000	0.3681
2-Nitrophenol	15.0	24186.0000	0.1791	25.0	61605.0000	0.1896	80.0	175038.000	0.2019
4-Chloro-3-Methylphenol	15.0	52064.0000	0.3856	25.0	127250.000	0.3916	80.0	344375.000	0.3972
Acenaphthene	15.0	108002.000	1.129	25.0	270752.000	1.182	80.0	782768.000	1.259
Benzo[a]pyrene	15.0	211381.000	1.155	25.0	535905.000	1.219	80.0	1534154.00	1.240
Di-n-Octyl Phthalate	15.0	196277.000	1.073	25.0	533784.000	1.214	80.0	1600340.00	1.293
Fluoranthene	15.0	249915.000	1.365	25.0	615392.000	1.436	80.0	1671315.00	1.481
Hexachlorobutadiene	15.0	45100.0000	0.3340	25.0	107508.000	0.3309	80.0	278572.000	0.3213
Pentachlorophenol	15.0	20553.0000	0.1123	25.0	62391.0000	0.1456	80.0	200096.000	0.1773
Phenol	15.0	63090.0000	1.595	25.0	160868.000	1.683	80.0	427551.000	1.710
n-Nitrosodiphenylamine	15.0	118973.000	0.6498	25.0	290222.000	0.6772	80.0	791950.000	0.7018
2,4-Dinitrophenol	15.0	5805.00000	0.06070	25.0	25500.0000	0.1113	80.0	104015.000	0.1673
4-Nitrophenol	15.0	28275.0000	0.2955	25.0	68859.0000	0.3005	80.0	190640.000	0.3065
Hexachlorocyclopentadiene	15.0	35338.0000	0.3694	25.0	99354.0000	0.4336	80.0	288927.000	0.4646
n-Nitrosodipropylamine	15.0	40475.0000	1.023	25.0	100435.000	1.051	80.0	258884.000	1.036
2,4,5-Trichlorophenol	15.0	40465.0000	0.4230	25.0	104764.000	0.4572	80.0	293599.000	0.4721
2,4-Dimethylphenol	15.0	51431.0000	0.3809	25.0	130875.000	0.4028	80.0	324020.000	0.3737
2,4-Dinitrotoluene	15.0	35097.0000	0.3669	25.0	91689.0000	0.4001	80.0	253364.000	0.4074
2,6-Dinitrotoluene	15.0	28223.0000	0.2950	25.0	69700.0000	0.3042	80.0	190771.000	0.3068
2-Chloronaphthalene	15.0	124189.000	1.298	25.0	302662.000	1.321	80.0	817846.000	1.315
2-Chlorophenol	15.0	46771.0000	1.182	25.0	119193.000	1.247	80.0	321563.000	1.286
2-Methylnaphthalene	15.0	100887.000	0.7471	25.0	253922.000	0.7815	80.0	705363.000	0.8136
2-Methylphenol	15.0	38574.0000	0.9750	25.0	99916.0000	1.045	80.0	265250.000	1.061
2-Nitroaniline	15.0	33956.0000	0.3549	25.0	82121.0000	0.3584	80.0	218250.000	0.3509
3,3'-Dichlorobenzidine	15.0	67580.0000	0.3290	25.0	185573.000	0.3758	80.0	538090.000	0.3943
3-,4-Methylphenol	15.0	50298.0000	1.271	25.0	124501.000	1.302	80.0	338084.000	1.352
3-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
4,6-Dinitro-2-Methylphenol	15.0	14678.0000	0.08020	25.0	48640.0000	0.1135	80.0	172873.000	0.1532
4-Bromophenyl Phenyl Ether	15.0	49966.0000	0.2729	25.0	122137.000	0.2850	80.0	332607.000	0.2947
4-Chloroaniline	15.0	75575.0000	0.5597	25.0	190168.000	0.5853	80.0	521274.000	0.6012
4-Chlorophenyl Phenyl Ether	15.0	82230.0000	0.8595	25.0	200371.000	0.8745	80.0	537412.000	0.8642
4-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
Acenaphthylene	15.0	164778.000	1.722	25.0	413595.000	1.805	80.0	1135611.00	1.826
Anthracene	15.0	197050.000	1.076	25.0	491615.000	1.147	80.0	1366240.00	1.211
Benzo[a]anthracene	15.0	264299.000	1.287	25.0	650627.000	1.318	80.0	1796598.00	1.317
Benzo[b]fluoranthene	15.0	235779.000	1.289	25.0	590199.000	1.343	80.0	1595206.00	1.289
Benzo[ghi]perylene	15.0	196842.000	1.076	25.0	499944.000	1.137	80.0	1411076.00	1.140
Benzo[k]fluoranthene	15.0	224378.000	1.226	25.0	553580.000	1.259	80.0	1553835.00	1.256
Butyl Benzyl Phthalate	15.0	102371.000	0.4984	25.0	253670.000	0.5137	80.0	713612.000	0.5229
Carbazole	15.0	171716.000	0.9379	25.0	428714.000	1.000	80.0	1208224.00	1.071
Chrysene	15.0	235937.000	1.149	25.0	579470.000	1.174	80.0	1618976.00	1.186

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	232437.000	1.270	25.0	563217.000	1.314	80.0	1547150.00	1.371
Dibenz[ah]anthracene	15.0	200539.000	1.096	25.0	505358.000	1.150	80.0	1505496.00	1.217
Dibenzofuran	15.0	162303.000	1.697	25.0	394959.000	1.724	80.0	1074465.00	1.728
Diethylphthalate	15.0	137877.000	1.441	25.0	328909.000	1.435	80.0	868238.000	1.396
Dimethylphthalate	15.0	127130.000	1.329	25.0	312530.000	1.364	80.0	830445.000	1.335
Fluorene	15.0	134267.000	1.403	25.0	330753.000	1.444	80.0	920136.000	1.480
Hexachlorobenzene	15.0	48740.0000	0.2662	25.0	113654.000	0.2652	80.0	311857.000	0.2764
Hexachloroethane	15.0	25151.0000	0.6357	25.0	61542.0000	0.6437	80.0	158937.000	0.6357
Indeno[1,2,3-cd]pyrene	15.0	230092.000	1.257	25.0	599639.000	1.364	80.0	1731397.00	1.399
Isophorone	15.0	99381.0000	0.7360	25.0	245328.000	0.7550	80.0	642420.000	0.7410
Naphthalene	15.0	146165.000	1.082	25.0	361079.000	1.111	80.0	1006802.00	1.161
Nitrobenzene	15.0	69269.0000	0.5130	25.0	159759.000	0.4917	80.0	402450.000	0.4642
Phenanthrene	15.0	202627.000	1.107	25.0	493338.000	1.151	80.0	1370037.00	1.214
Pyrene	15.0	259537.000	1.264	25.0	637423.000	1.291	80.0	1725768.00	1.265
bis(2-Chloroethoxy)methane	15.0	57561.0000	0.4263	25.0	138912.000	0.4275	80.0	369360.000	0.4260
bis(2-Chloroethyl)ether	15.0	35230.0000	0.8905	25.0	82944.0000	0.8676	80.0	210681.000	0.8427
bis(2-Chloroisopropyl)ether	15.0	50752.0000	1.283	25.0	121163.000	1.267	80.0	303941.000	1.216
bis(2-Ethylhexyl)phthalate	15.0	131164.000	0.6386	25.0	339497.000	0.6876	80.0	972062.000	0.7123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	377204.000	0.4596	120	482469.000	0.4781
2,4-Dichlorophenol	100	440715.000	0.3829	120	570611.000	0.3965
2-Nitrophenol	100	239517.000	0.2081	120	311803.000	0.2166
4-Chloro-3-Methylphenol	100	469454.000	0.4079	120	602506.000	0.4186
Acenaphthene	100	1079901.00	1.316	120	1396579.00	1.384
Benzo[a]pyrene	100	2086082.00	1.270	120	2632858.00	1.319
Di-n-Octyl Phthalate	100	2184046.00	1.329	120	2800418.00	1.403
Fluoranthene	100	2215701.00	1.492	120	2755326.00	1.509
Hexachlorobutadiene	100	373087.000	0.3242	120	470703.000	0.3270
Pentachlorophenol	100	283307.000	0.1908	120	367345.000	0.2012
Phenol	100	580096.000	1.707	120	749079.000	1.774
n-Nitrosodiphenylamine	100	1066689.00	0.7182	120	1356134.00	0.7428
2,4-Dinitrophenol	100	157333.000	0.1917	120	213452.000	0.2115
4-Nitrophenol	100	252092.000	0.3072	120	323723.000	0.3208
Hexachlorocyclopentadiene	100	387575.000	0.4723	120	489911.000	0.4855
n-Nitrosodipropylamine	100	344175.000	1.013	120	438122.000	1.037
2,4,5-Trichlorophenol	100	394373.000	0.4806	120	508384.000	0.5038
2,4-Dimethylphenol	100	456542.000	0.3967	120	585962.000	0.4071
2,4-Dinitrotoluene	100	344032.000	0.4192	120	444879.000	0.4409
2,6-Dinitrotoluene	100	255107.000	0.3109	120	325195.000	0.3223
2-Chloronaphthalene	100	1099288.00	1.340	120	1413873.00	1.401
2-Chlorophenol	100	439835.000	1.294	120	563310.000	1.334
2-Methylnaphthalene	100	970956.000	0.8437	120	1256929.00	0.8733
2-Methylphenol	100	365442.000	1.076	120	472314.000	1.118
2-Nitroaniline	100	284645.000	0.3468	120	357321.000	0.3541
3,3'-Dichlorobenzidine	100	733235.000	0.4024	120	940493.000	0.4198
3-,4-Methylphenol	100	465577.000	1.370	120	602765.000	1.427
3-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
4,6-Dinitro-2-Methylphenol	100	246356.000	0.1659	120	329033.000	0.1802
4-Bromophenyl Phenyl Ether	100	451448.000	0.3040	120	574210.000	0.3145
4-Chloroaniline	100	718485.000	0.6243	120	926485.000	0.6437
4-Chlorophenyl Phenyl Ether	100	723357.000	0.8814	120	920890.000	0.9126
4-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
Acenaphthylene	100	1529219.00	1.863	120	1960028.00	1.942
Anthracene	100	1822066.00	1.227	120	2287957.00	1.253
Benzo[a]anthracene	100	2405433.00	1.320	120	3012702.00	1.345
Benzo[b]fluoranthene	100	2336636.00	1.422	120	2840065.00	1.423
Benzo[ghi]perylene	100	1892297.00	1.152	120	2342145.00	1.173
Benzo[k]fluoranthene	100	2043397.00	1.244	120	2665882.00	1.335
Butyl Benzyl Phthalate	100	970519.000	0.5326	120	1230823.00	0.5494
Carbazole	100	1604741.00	1.081	120	2037702.00	1.116
Chrysene	100	2170926.00	1.191	120	2734443.00	1.221

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050149 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2062132.00	1.389	120	2572387.00	1.409
Dibenz[ah]anthracene	100	2048294.00	1.247	120	2575721.00	1.290
Dibenzofuran	100	1433623.00	1.747	120	1812183.00	1.796
Diethylphthalate	100	1153162.00	1.405	120	1453341.00	1.440
Dimethylphthalate	100	1103240.00	1.344	120	1416244.00	1.404
Fluorene	100	1257267.00	1.532	120	1611047.00	1.597
Hexachlorobenzene	100	420081.000	0.2828	120	539403.000	0.2955
Hexachloroethane	100	211552.000	0.6226	120	270148.000	0.6397
Indeno[1,2,3-cd]pyrene	100	2335820.00	1.422	120	2927052.00	1.466
Isophorone	100	848363.000	0.7371	120	1079868.00	0.7503
Naphthalene	100	1372849.00	1.193	120	1779526.00	1.236
Nitrobenzene	100	535447.000	0.4652	120	667562.000	0.4638
Phenanthrene	100	1836910.00	1.237	120	2321323.00	1.272
Pyrene	100	2295342.00	1.260	120	2860075.00	1.277
bis(2-Chloroethoxy)methane	100	495133.000	0.4302	120	633036.000	0.4398
bis(2-Chloroethyl)ether	100	281115.000	0.8273	120	358453.000	0.8488
bis(2-Chloroisopropyl)ether	100	407669.000	1.200	120	512593.000	1.214
bis(2-Ethylhexyl)phthalate	100	1331118.00	0.7305	120	1689210.00	0.7541

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050149 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	53700	ug/L	0.449	7.40	25	
2,4-Dichlorophenol	CCC	50000	49600	ug/L	0.346	0.900	25	
2-Nitrophenol	CCC	50000	50700	ug/L	0.207	1.50	25	
Benzo[a]pyrene	CCC	50000	56600	ug/L	1.38	13.2	25	
Di-n-Octyl Phthalate	CCC	50000	51100	ug/L	1.36	2.20	25	
Fluoranthene	CCC	50000	57200	ug/L	1.60	14.5	25	
Hexachlorobutadiene	CCC	50000	54300	ug/L	0.356	8.60	25	
Pentachlorophenol	CCC	50000	57800	ug/L	0.205	15.5	25	
Phenol	CCC	50000	49100	ug/L	1.63	1.80	25	
2,4-Dinitrophenol	SPCC	50000	62900	ug/L	0.186	25.8	25	*
4-Nitrophenol	SPCC	50000	44900	ug/L	0.282	10.2	25	
Hexachlorocyclopentadiene	SPCC	50000	47600	ug/L	0.437	4.80	25	
2,4,5-Trichlorophenol		50000	53500	ug/L	0.474	7.00	25	
2,4-Dinitrotoluene		50000	57500	ug/L	0.436	15.0	25	
2,6-Dinitrotoluene		50000	54700	ug/L	0.322	9.30	25	
2-Chloronaphthalene		50000	46100	ug/L	1.21	7.70	25	
2-Chlorophenol		50000	49800	ug/L	1.23	0.400	25	
2-Methylnaphthalene		50000	53500	ug/L	0.840	6.90	25	
4,6-Dinitro-2-Methylphenol		50000	61500	ug/L	0.165	23.1	25	
4-Chloroaniline		50000	51100	ug/L	0.596	2.30	25	
4-Chlorophenyl Phenyl Ether		50000	48600	ug/L	0.837	2.90	25	
Anthracene		50000	56000	ug/L	1.26	12.1	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	7.90	25	
Benzo[b]fluoranthene		50000	54100	ug/L	1.43	8.20	25	
Benzo[k]fluoranthene		50000	55600	ug/L	1.41	11.3	25	
bis(2-Chloroethoxy)methane		50000	48400	ug/L	0.413	3.30	25	
bis(2-Chloroisopropyl)ether		50000	45300	ug/L	1.13	9.40	25	
bis(2-Ethylhexyl)phthalate		50000	53800	ug/L	0.733	7.50	25	
Butyl Benzyl Phthalate		50000	54000	ug/L	0.558	8.00	25	
Carbazole		50000	53800	ug/L	1.05	7.60	25	
Chrysene		50000	53500	ug/L	1.27	6.90	25	
Dibenz[ah]anthracene		50000	51200	ug/L	1.27	2.30	25	
Dibenzofuran		50000	53400	ug/L	1.82	6.70	25	
Hexachlorobenzene		50000	56800	ug/L	0.300	13.6	25	
Hexachloroethane		50000	49300	ug/L	0.617	1.40	25	
Isophorone		50000	55400	ug/L	0.820	10.7	25	
Naphthalene		50000	53000	ug/L	1.19	6.10	25	
Nitrobenzene		50000	47600	ug/L	0.463	4.80	25	
Phenanthrene		50000	54500	ug/L	1.25	8.90	25	
Pyrene		50000	55800	ug/L	1.44	11.6	25	

* Exceeds %D Limit

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270954-02
Instrument ID: HPMS12 Run Time: 09:10 Method: 8270C
File ID: 12M21685 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271106 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	54100	ug/L	0.453	8.17	20	
2,4-Dichlorophenol	CCC	50000	53000	ug/L	0.370	6.01	20	
2-Nitrophenol	CCC	50000	51500	ug/L	0.210	2.92	20	
4-Chloro-3-Methylphenol	CCC	50000	53100	ug/L	0.411	6.21	20	
Acenaphthene	CCC	50000	52500	ug/L	1.25	5.05	20	
Benzo[a]pyrene	CCC	50000	56200	ug/L	1.37	12.4	20	
Di-n-Octyl Phthalate	CCC	50000	57300	ug/L	1.54	14.7	20	
Fluoranthene	CCC	50000	48900	ug/L	1.37	2.20	20	
Hexachlorobutadiene	CCC	50000	55500	ug/L	0.364	11.0	20	
n-Nitrosodiphenylamine	CCC	50000	46600	ug/L	0.622	6.88	20	
Pentachlorophenol	CCC	50000	43400	ug/L	0.146	13.2	20	
Phenol	CCC	50000	50000	ug/L	1.66	0.0234	20	
1,4-Dichlorobenzene	CCC	50000	50400	ug/L	1.54	0.896	25	
2,4-Dinitrophenol	SPCC	50000	49400	ug/L	0.130	1.18	25	
4-Nitrophenol	SPCC	50000	51200	ug/L	0.321	2.31	25	
Hexachlorocyclopentadiene	SPCC	50000	55300	ug/L	0.513	10.6	25	
n-Nitrosodipropylamine	SPCC	50000	54600	ug/L	1.13	9.18	25	
2,4,5-Trichlorophenol		50000	53400	ug/L	0.473	6.77	25	
2,4-Dimethylphenol		50000	49200	ug/L	0.364	1.55	25	
2,4-Dinitrotoluene		50000	52800	ug/L	0.400	5.57	25	
2,6-Dinitrotoluene		50000	52200	ug/L	0.307	4.32	25	
2-Chloronaphthalene		50000	49100	ug/L	1.29	1.76	25	
2-Chlorophenol		50000	50900	ug/L	1.26	1.87	25	
2-Methylnaphthalene		50000	50200	ug/L	0.789	0.407	25	
2-Methylphenol		50000	51100	ug/L	1.04	2.12	25	
2-Nitroaniline		50000	53100	ug/L	0.382	6.13	25	
3,3'-Dichlorobenzidine		50000	50700	ug/L	0.407	1.48	25	
3-,4-Methylphenol		50000	49000	ug/L	1.27	2.01	25	
3-Nitroaniline		50000	44700	ug/L	0.276	10.7	25	
4,6-Dinitro-2-Methylphenol		50000	54400	ug/L	0.140	8.75	25	
4-Bromophenyl Phenyl Ether		50000	47500	ug/L	0.267	4.90	25	
4-Chloroaniline		50000	48600	ug/L	0.566	2.88	25	
4-Chlorophenyl Phenyl Ether		50000	50700	ug/L	0.874	1.50	25	
4-Nitroaniline		50000	44700	ug/L	0.276	10.7	25	
Acenaphthylene		50000	50500	ug/L	1.79	1.02	25	
Anthracene		50000	46700	ug/L	1.05	6.69	25	
Benzo[a]anthracene		50000	54300	ug/L	1.42	8.70	25	
Benzo[b]fluoranthene		50000	57700	ug/L	1.53	15.5	25	
Benzo[ghi]perylene		50000	56300	ug/L	1.24	12.5	25	
Benzo[k]fluoranthene		50000	55700	ug/L	1.41	11.5	25	
bis(2-Chloroethoxy)methane		50000	51300	ug/L	0.437	2.50	25	
bis(2-Chloroethyl)ether		50000	51600	ug/L	0.904	3.27	25	

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050149 Run Date: 05/12/2008 Sample ID: WG270954-02
Instrument ID: HPMS12 Run Time: 09:10 Method: 8270C
File ID: 12M21685 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271106 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	53500	ug/L	1.33	6.98	25	
bis(2-Ethylhexyl)phthalate		50000	59100	ug/L	0.806	18.2	25	
Butyl Benzyl Phthalate		50000	55900	ug/L	0.577	11.7	25	
Carbazole		50000	46200	ug/L	0.900	7.60	25	
Chrysene		50000	54800	ug/L	1.30	9.55	25	
Dibenz[ah]anthracene		50000	53400	ug/L	1.33	6.80	25	
Dibenzofuran		50000	49000	ug/L	1.67	2.00	25	
Diethylphthalate		50000	53000	ug/L	1.50	6.00	25	
Dimethylphthalate		50000	52600	ug/L	1.41	5.14	25	
Di-n-Butyl Phthalate		50000	50000	ug/L	1.28	0.0920	25	
Fluorene		50000	51000	ug/L	1.48	1.91	25	
Hexachlorobenzene		50000	48800	ug/L	0.257	2.50	25	
Hexachloroethane		50000	53500	ug/L	0.669	6.96	25	
Indeno[1,2,3-cd]pyrene		50000	57500	ug/L	1.53	15.0	25	
Isophorone		50000	54400	ug/L	0.805	8.73	25	
Naphthalene		50000	50200	ug/L	1.13	0.356	25	
Nitrobenzene		50000	53200	ug/L	0.517	6.49	25	
Phenanthrene		50000	46800	ug/L	1.07	6.48	25	
Pyrene		50000	52300	ug/L	1.35	4.69	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1092269
Report generated 05/13/2008 14:11

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149 ICAL CCV Number: WG269466-02

Instrument ID: HPMS12 CAL ID: HPMS12-25-APR-08

Workgroup (AAB#): WG271106 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	105623	248605	475757	353994	406408	500222
Upper Limit	NA	NA	211246	497210	951514	707988	812816	1000444
Lower Limit	NA	NA	52812	124303	237879	176997	203204	250111
L08050149-01	1.00	01	88610	199313	366975	291955	308691	379002
L08050149-02	1.00	01	81438	191669	371828	274701	310148	373229
L08050149-03	2.00	DL01	74760	173514	355421	254106	281527	342082
L08050149-04	2.00	DL01	76277	180632	363345	261331	290238	354285
L08050149-05	1.00	01	78241	182159	356891	261652	293851	350403
L08050149-06	1.00	01	99981	236753	458019	340386	376019	447516
L08050149-07	2.00	DL01	71026	167664	366554	241041	296420	339332
L08050149-08	1.00	01	72854	172548	348190	243988	283400	328672
WG270790-02	1.00	01	84229	192750	373366	277202	320072	375882
WG270790-03	1.00	01	74997	179478	384914	273116	337251	356756

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1092270
Report generated 05/13/2008 14:11

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050149 ICAL CCV Number: WG269466-02

Instrument ID: HPMS12 CAL ID: HPMS12-25-APR-08

Workgroup (AAB#): WG271106 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	9.63	13.31	17.91	11.24	20.8	14.94
Upper Limit	NA	NA	10.13	13.81	18.41	11.74	21.3	15.44
Lower Limit	NA	NA	9.13	12.81	17.41	10.74	20.3	14.44
L08050149-01	1.00	01	9.62	13.3	17.89	11.23	20.76	14.93
L08050149-02	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93
L08050149-03	2.00	DL01	9.62	13.3	17.89	11.23	20.76	14.93
L08050149-04	2.00	DL01	9.62	13.3	17.89	11.23	20.76	14.93
L08050149-05	1.00	01	9.62	13.3	17.89	11.23	20.76	14.93
L08050149-06	1.00	01	9.63	13.3	17.89	11.23	20.76	14.93
L08050149-07	2.00	DL01	9.62	13.3	17.9	11.23	20.76	14.93
L08050149-08	1.00	01	9.62	13.3	17.89	11.23	20.76	14.93
WG270790-02	1.00	01	9.63	13.3	17.9	11.23	20.77	14.93
WG270790-03	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1092271
Report generated: 05/13/2008 14:12

2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG270880 Analyst:JDH ADT(on):05/09/2008 13:50
Method:D2216-90 Instrument:BAL001 ADT(off):05/12/2008 08:49
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050148-02	1.25	41.08	34.3			82.98	
L08050148-04	1.26	16.73	13.93			81.90	
L08050148-06	1.26	16.73	13.93			81.90	
L08050148-08	1.26	16.73	13.93			81.90	
L08050148-10	1.26	29.39	25.04			84.54	
L08050148-12	1.25	18.11	15.95			87.19	
L08050149-01	1.27	17.64	15.3			85.71	
L08050149-02	1.27	16.26	14.69			89.53	
L08050149-03	1.27	32.85	29.51			89.42	
L08050149-04	1.26	28.8	26.71			92.41	
L08050149-05	1.27	39.83	34.56			86.33	
L08050149-06	1.26	24.1	20.85			85.77	
L08050149-07	1.26	28.52	25.41			88.59	
L08050149-08	1.26	24.04	19.98			82.18	
L08050159-01	1.27	25.74	21.5			82.67	
L08050159-02	1.26	25.47	21.66			84.26	
L08050159-03	1.26	29.88	25.51			84.73	
L08050173-02	1.25	26.45	21.9			81.94	
L08050173-04	1.25	26.45	21.9			81.94	
L08050173-06	1.25	26.45	21.9			81.94	
L08050173-08	1.27	32.24	25.59			78.53	
L08050173-10	1.27	32.24	25.59			78.53	
L08050173-12	1.27	32.24	25.59			78.53	
L08050173-14	1.26	31.88	25.82			80.21	
L08050173-16	1.27	35.79	29			80.33	
L08050173-18	1.27	23.82	20.02			83.15	
L08050173-20	1.27	22.12	17.62			78.42	
WG270880-01	1.26	31.88	25.82			80.21	19.79
WG270880-02	1.28	28.4	22.75			79.17	20.83
WG270880-03	1.27	22.12	17.62			78.42	21.58
WG270880-04	1.27	23.84	18.82			77.76	22.24

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1090440
Report generated: 05/12/2008 08:57

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
May 29, 2008

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
AML – ANTHONY M. LONG	ASP – AARON S. PETRIE	BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS	CAH – CHARLES A. HALL
CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD	CLW – CHARISSA L. WINTERS
CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
CTB – CHRIS T. BUCINA	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
DR – DEANNA ROBERTS	DSF – DEBRA S. FREDERICK	ECL – ERIC C. LAWSON
ED – EMILY E. DECKER	ERE – ERIN R. ELDER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JBK – JEREMY B. KINNEY
JC – JOHN L. CONLEY	JDH – JUSTIN D. HESSON	JKP – JACQUELINE K. PARSONS
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES
KJW – KATIE J. WIEFERICH	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	NPM – NATHANIEL P. MILLER	RAH – ROY A. HALSTEAD
RB – ROBERT BUCHANAN	REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SDH – SHANA D. HINYARD	SDL – SHELLY D. LENT
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE
TDH – TRICIA D. HUCK	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
May 29, 2008

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 82108

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Paul Wehn

Contact Phone #: 919-875-4311

Turn Around Requirements: standard

Location: Tech Cntr

Project ID: Property Divestiture / 371881.01.SI. / Post

Sampler (print): Patrick K

Signature: Patrick K

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

ADDITIONAL REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC's	SVOC's										TOTAL # (LAB USE)
0140-S001-050708			5/7/08	0855	S	4		X	X	sample not received					KR 5/8/08				
0139-S001-050708				0910		4		X	X										
0137-S001-050708				0925		4		X	X										
0138-S001-050708 FD				0950		8		X	X										
0145-S001-050708				1050		4		X	X										
0141-S001-050708				1330		4		X	X										
0141-S002-050708				1340		4		X	X										
0146-S001-050708				1410		4		X	X										
TB01-050708				1600	W	2													

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Patrick K	5/7/08	1600					

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
			Kelli Kliger	5-8-08	1016	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Microbac Laboratories, Inc.

SAMPLE RECEIPT FORM

158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	CH2M Hill
Workorder Number:	B 15295
Date Received:	5-8-08
Delivered by:	(✓) Fedx ( ) UPS ( ) Client ( ) Courier **Time:** 1016
Opened by:	RLK
IR Temp Gun:	(✓) D ( ) G
Logged by:	RLK L 0805A149

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
1935	3	7993 2058 2178	82108	encores (SH)

Inspection Checklist	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓			
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)			✓	
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?			✓	
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

* Per KRA - Sample 0140-5001-050708(4) was cancelled.

Distribution

Name of Microbac representative:	KRA
Client/Company:	CH2MHill
Person Contacted:	Patricia Kish
Date contacted:	05/08/08

Resolution/other comments:

VOC encores will be recollected for Sample 0140-5001-050708.

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-02	455796	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050149-06	455809	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

Samplenum	Container ID	Products
L08050149-08	455815	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:42	MRT	RLK

Samplenum	Container ID	Products
L08050149-03	455800	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-04	455804	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-01	455794	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

Samplenum	Container ID	Products
L08050149-07	455813	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:06	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-02	455797	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-03	455799	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050149-06	455808	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-09	455817	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	08-MAY-2008 13:24	RLK	
2	ANALYZ	V1	ORG4	09-MAY-2008 11:36	MRT	RLK
3	STORE	ORG4	A2	22-MAY-2008 09:48	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	08-MAY-2008 13:24	RLK	
2	ANALYZ	V1	ORG4	09-MAY-2008 11:36	MRT	RLK
3	STORE	ORG4	A2	22-MAY-2008 09:48	RLK	MRT

Samplenum	Container ID	Products
L08050149-04	455802	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Samplenum	Container ID	Products
L08050149-01	455795	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-05	455807	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-04	455803	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

Samplenum	Container ID	Products
L08050149-05	455805	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-03	455801	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-06	455810	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-05	455806	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

Samplenum	Container ID	Products
L08050149-07	455812	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-02	455798	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:07	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-08	455816	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	08-MAY-2008 13:24	RLK	
2	PREP	W1	EXT	09-MAY-2008 06:41	CEB	JKT
3	STORE	EXT	W1	09-MAY-2008 09:06	JKT	CEB
4	ANALYZ	W1	WET	09-MAY-2008 13:16	JDH	RLK
5	STORE	WET	A2	12-MAY-2008 08:12	RLK	DIH

Samplenum	Container ID	Products
L08050149-01	455793	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050149
Account: 2736
Project: 2736.042
Samples: 9
Due Date: 22-MAY-2008

Samplenum	Container ID	Products
L08050149-07	455811	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:43	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Samplenum	Container ID	Products
L08050149-08	455814	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:42	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:42	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	F1	08-MAY-2008 13:24	RLK	
2	ANALYZ	F1	VOAY	08-MAY-2008 13:42	MRT	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:42	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Quick Facts

Microbac®

Look closer. Go further. Do more.

Corporate Information:

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President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate –Wide: 18 Divisions, 28 locations across 15 states

Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.) , in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.

Microbac®

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Ohio Valley Division
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Laboratory Report Number: L08050189

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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Jacqueline Parsons	*Team Assistant*	jparsons@microbac.com

This report was reviewed on May 29, 2008.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on May 29, 2008.

David Vandenberg - Managing Director

Accrediting authority: Department of Environmental Protection (West Virginia) ID:037
This report contains a total of 178 pages.

Look closer. Go further. Do more.

Microbac REPORT L08050189
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08050189

CHAIN OF CUSTODY: The chain of custody number was 04544.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 0 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L08050189-01	0143-SO01-050808
L08050189-02	0143-SO01-050808
L08050189-03	0143-SO01-050808
L08050189-04	0142-SO01-050808
L08050189-05	0144-SO01-050808
L08050189-06	0140-SO01-050808
L08050189-07	TB01-050808

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 12-MAY-08

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS VOLATILE ORGANICS

Microbac Login No: L08050189

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower control limit in the water alternate source analyzed 04/18/08 on HPMS-6. 1,4-Dioxane exceeded the upper control limit and vinyl acetate was below the lower control limit in the soil alternate source analyzed 05/12/08 on HPMS-9. All other acceptance criteria were met.

Continuing Calibration and Tune: Bromoform, 1,4-dioxane, 4-methyl-2-pentanone, and bromomethane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 05/18/08 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spike: Vinyl acetate was not detected in the MS and MSD and 1,1,2,2-tetrachloroethane was not detected in the MSD, 1,1,2,2-tetrachloroethane, 1,3-dichlorobenzene and 1,4-dichlorobenzene were below the lower control limits, and 2-butanone, acetone, and trichloroethene exceeded the upper control limits in the MS/MSD analyses of sample 01. Outliers were acceptable in the associated LCS. 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.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: CMS

Approved: 27-MAY-08

LABORATORY REPORT

L08050189

05/27/08 12:42

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	QC Type	Lab ID	Method	Dilution	Date Received
0143-SO01-050808		L08050189-01	8260B	1	09-MAY-08
0143-SO01-050808	MS	L08050189-02	8260B	1	09-MAY-08
0143-SO01-050808	MSD	L08050189-03	8260B	1	09-MAY-08
0142-SO01-050808		L08050189-04	8260B	1	09-MAY-08
0144-SO01-050808		L08050189-05	8260B	1	09-MAY-08
0140-SO01-050808		L08050189-06	8260B	1	09-MAY-08
TB01-050808		L08050189-07	8260B	1	09-MAY-08

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-01**
Client ID: **0143-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271622**
Collect Date: **05/08/2008 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/19/2008 15:28**
Cal Date: **05/12/2008 18:39**
Run Date: **05/19/2008 15:28**
File ID: **9M61971**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.81	0.481
1,1,2,2-Tetrachloroethane	79-34-5		U	4.81	0.481
1,1,2-Trichloroethane	79-00-5		U	4.81	0.481
1,1-Dichloroethane	75-34-3		U	4.81	0.961
1,1-Dichloroethene	75-35-4		U	4.81	0.481
1,2,4-Trichlorobenzene	120-82-1		U	4.81	0.481
1,2-Dichlorobenzene	95-50-1		U	4.81	0.481
1,2-Dichloroethane	107-06-2		U	4.81	0.481
1,2-Dichloropropane	78-87-5		U	4.81	0.481
1,3-Dichlorobenzene	541-73-1		U	4.81	0.481
1,4-Dichlorobenzene	106-46-7		U	4.81	0.481
1,4-Dioxane	123-91-1		U	1630	48.1
2-Butanone	78-93-3		U	24.0	2.40
2-Hexanone	591-78-6		U	9.61	2.40
4-Methyl-2-pentanone	108-10-1		U	9.61	2.40
Acetone	67-64-1		U	96.1	4.81
Acrylonitrile	107-13-1		U	96.1	2.40
Benzene	71-43-2		U	4.81	0.481
Bromodichloromethane	75-27-4		U	4.81	0.481
Bromoform	75-25-2		U	4.81	0.481
Bromomethane	74-83-9		U	9.61	0.961
Carbon disulfide	75-15-0		U	4.81	0.481
Carbon tetrachloride	56-23-5		U	4.81	0.481
Chlorobenzene	108-90-7		U	4.81	0.481
Dibromochloromethane	124-48-1		U	4.81	0.481
Chloroethane	75-00-3		U	9.61	0.961
Chloroform	67-66-3		U	4.81	0.481
Chloromethane	74-87-3		U	9.61	1.92
cis-1,2-Dichloroethene	156-59-2		U	4.81	0.481
cis-1,3-Dichloropropene	10061-01-5		U	4.81	0.481
Ethylbenzene	100-41-4		U	4.81	0.481
Methylene chloride	75-09-2		U	4.81	0.961
Methyltert-butyl ether	1634-04-4		U	9.61	0.481
Styrene	100-42-5		U	4.81	0.481
Tetrachloroethene	127-18-4		U	4.81	0.481
Toluene	108-88-3		U	4.81	0.481
trans-1,2-Dichloroethene	156-60-5		U	4.81	0.481
trans-1,3-Dichloropropene	10061-02-6		U	4.81	0.481
Trichloroethene	79-01-6		U	4.81	0.481
Vinyl acetate	108-05-4		U	9.61	0.961
Vinyl chloride	75-01-4		U	9.61	0.961
Xylenes	1330-20-7		U	9.61	0.481

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.9	70	121	
4-Bromofluorobenzene	99.0	59	113	
Dibromofluoromethane	104	65	135	
Toluene-d8	100	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-02	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0143-SO01-050808	Prep Method:	5030B	Prep Date:	05/19/2008 15:59
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271622	Analyst:	FJB	Run Date:	05/19/2008 15:59
Collect Date:	05/08/2008 10:10	Dilution:	1	File ID:	9M61972
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6	19.5		4.89	0.489
1,1,2,2-Tetrachloroethane	79-34-5	0.830	J	4.89	0.489
1,1,2-Trichloroethane	79-00-5	19.4		4.89	0.489
1,1-Dichloroethane	75-34-3	18.5		4.89	0.977
1,1-Dichloroethene	75-35-4	18.6		4.89	0.489
1,2,4-Trichlorobenzene	120-82-1	16.3		4.89	0.489
1,2-Dichlorobenzene	95-50-1	17.0		4.89	0.489
1,2-Dichloroethane	107-06-2	17.4		4.89	0.489
1,2-Dichloropropane	78-87-5	19.1		4.89	0.489
1,3-Dichlorobenzene	541-73-1	16.6		4.89	0.489
1,4-Dichlorobenzene	106-46-7	15.4		4.89	0.489
1,4-Dioxane	123-91-1	255	J	1660	48.9
2-Butanone	78-93-3	22.9	J	24.4	2.44
2-Hexanone	591-78-6	16.4		9.77	2.44
4-Methyl-2-pentanone	108-10-1	19.3		9.77	2.44
Acetone	67-64-1	54.9	J	97.7	4.89
Acrylonitrile	107-13-1	18.1	J	97.7	2.44
Benzene	71-43-2	20.1		4.89	0.489
Bromodichloromethane	75-27-4	19.7		4.89	0.489
Bromoform	75-25-2	19.3		4.89	0.489
Bromomethane	74-83-9	21.9		9.77	0.977
Carbon disulfide	75-15-0	14.7		4.89	0.489
Carbon tetrachloride	56-23-5	20.3		4.89	0.489
Chlorobenzene	108-90-7	17.9		4.89	0.489
Dibromochloromethane	124-48-1	19.5		4.89	0.489
Chloroethane	75-00-3	20.2		9.77	0.977
Chloroform	67-66-3	18.8		4.89	0.489
Chloromethane	74-87-3	17.4		9.77	1.95
cis-1,2-Dichloroethene	156-59-2	21.5		4.89	0.489
cis-1,3-Dichloropropene	10061-01-5	19.0		4.89	0.489
Ethylbenzene	100-41-4	18.9		4.89	0.489
Methylene chloride	75-09-2	18.0		4.89	0.977
Methyltert-butyl ether	1634-04-4	20.8		9.77	0.489
Styrene	100-42-5	17.3		4.89	0.489
Tetrachloroethene	127-18-4	22.9		4.89	0.489
Toluene	108-88-3	19.1		4.89	0.489
trans-1,2-Dichloroethene	156-60-5	20.4		4.89	0.489
trans-1,3-Dichloropropene	10061-02-6	16.4		4.89	0.489
Trichloroethene	79-01-6	37.8		4.89	0.489
Vinyl acetate	108-05-4		U	9.77	0.977
Vinyl chloride	75-01-4	20.7		9.77	0.977
Xylenes	1330-20-7	56.8		9.77	0.489

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	88.3	70	121	
4-Bromofluorobenzene	94.6	59	113	
Dibromofluoromethane	99.7	65	135	
Toluene-d8	99.3	86	138	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-03	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0143-SO01-050808	Prep Method:	5030B	Prep Date:	05/19/2008 16:32
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271622	Analyst:	FJB	Run Date:	05/19/2008 16:32
Collect Date:	05/08/2008 10:10	Dilution:	1	File ID:	9M61973
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6	15.9		4.64	0.464
1,1,2,2-Tetrachloroethane	79-34-5		U	4.64	0.464
1,1,2-Trichloroethane	79-00-5	16.3		4.64	0.464
1,1-Dichloroethane	75-34-3	15.5		4.64	0.928
1,1-Dichloroethene	75-35-4	16.8		4.64	0.464
1,2,4-Trichlorobenzene	120-82-1	12.7		4.64	0.464
1,2-Dichlorobenzene	95-50-1	14.3		4.64	0.464
1,2-Dichloroethane	107-06-2	14.9		4.64	0.464
1,2-Dichloropropane	78-87-5	17.2		4.64	0.464
1,3-Dichlorobenzene	541-73-1	13.2		4.64	0.464
1,4-Dichlorobenzene	106-46-7	12.6		4.64	0.464
1,4-Dioxane	123-91-1	232	J	1580	46.4
2-Butanone	78-93-3	25.3		23.2	2.32
2-Hexanone	591-78-6	17.0		9.28	2.32
4-Methyl-2-pentanone	108-10-1	21.4		9.28	2.32
Acetone	67-64-1	74.3	J	92.8	4.64
Acrylonitrile	107-13-1	17.4	J	92.8	2.32
Benzene	71-43-2	17.9		4.64	0.464
Bromodichloromethane	75-27-4	16.6		4.64	0.464
Bromoform	75-25-2	18.2		4.64	0.464
Bromomethane	74-83-9	20.9		9.28	0.928
Carbon disulfide	75-15-0	13.1		4.64	0.464
Carbon tetrachloride	56-23-5	16.4		4.64	0.464
Chlorobenzene	108-90-7	15.7		4.64	0.464
Dibromochloromethane	124-48-1	17.2		4.64	0.464
Chloroethane	75-00-3	18.5		9.28	0.928
Chloroform	67-66-3	15.9		4.64	0.464
Chloromethane	74-87-3	16.8		9.28	1.86
cis-1,2-Dichloroethene	156-59-2	17.7		4.64	0.464
cis-1,3-Dichloropropene	10061-01-5	17.0		4.64	0.464
Ethylbenzene	100-41-4	16.3		4.64	0.464
Methylene chloride	75-09-2	16.1		4.64	0.928
Methyltert-butyl ether	1634-04-4	18.3		9.28	0.464
Styrene	100-42-5	14.9		4.64	0.464
Tetrachloroethene	127-18-4	20.5		4.64	0.464
Toluene	108-88-3	17.2		4.64	0.464
trans-1,2-Dichloroethene	156-60-5	16.0		4.64	0.464
trans-1,3-Dichloropropene	10061-02-6	14.5		4.64	0.464
Trichloroethene	79-01-6	34.3		4.64	0.464
Vinyl acetate	108-05-4		U	9.28	0.928
Vinyl chloride	75-01-4	19.4		9.28	0.928
Xylenes	1330-20-7	48.6		9.28	0.464

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	81.8	70	121	
4-Bromofluorobenzene	95.0	59	113	
Dibromofluoromethane	65.1	65	135	
Toluene-d8	98.9	86	138	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-04**
Client ID: **0142-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271622**
Collect Date: **05/08/2008 10:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/19/2008 17:04**
Cal Date: **05/12/2008 18:39**
Run Date: **05/19/2008 17:04**
File ID: **9M61974**
Percent Solid: **84.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.87	0.487
1,1,2,2-Tetrachloroethane	79-34-5		U	4.87	0.487
1,1,2-Trichloroethane	79-00-5		U	4.87	0.487
1,1-Dichloroethane	75-34-3		U	4.87	0.973
1,1-Dichloroethene	75-35-4		U	4.87	0.487
1,2,4-Trichlorobenzene	120-82-1		U	4.87	0.487
1,2-Dichlorobenzene	95-50-1		U	4.87	0.487
1,2-Dichloroethane	107-06-2		U	4.87	0.487
1,2-Dichloropropane	78-87-5		U	4.87	0.487
1,3-Dichlorobenzene	541-73-1		U	4.87	0.487
1,4-Dichlorobenzene	106-46-7		U	4.87	0.487
1,4-Dioxane	123-91-1		U	1650	48.7
2-Butanone	78-93-3		U	24.3	2.43
2-Hexanone	591-78-6		U	9.73	2.43
4-Methyl-2-pentanone	108-10-1		U	9.73	2.43
Acetone	67-64-1		U	97.3	4.87
Acrylonitrile	107-13-1		U	97.3	2.43
Benzene	71-43-2		U	4.87	0.487
Bromodichloromethane	75-27-4		U	4.87	0.487
Bromoform	75-25-2		U	4.87	0.487
Bromomethane	74-83-9		U	9.73	0.973
Carbon disulfide	75-15-0		U	4.87	0.487
Carbon tetrachloride	56-23-5		U	4.87	0.487
Chlorobenzene	108-90-7		U	4.87	0.487
Dibromochloromethane	124-48-1		U	4.87	0.487
Chloroethane	75-00-3		U	9.73	0.973
Chloroform	67-66-3		U	4.87	0.487
Chloromethane	74-87-3		U	9.73	1.95
cis-1,2-Dichloroethene	156-59-2		U	4.87	0.487
cis-1,3-Dichloropropene	10061-01-5		U	4.87	0.487
Ethylbenzene	100-41-4		U	4.87	0.487
Methylene chloride	75-09-2		U	4.87	0.973
Methyltert-butyl ether	1634-04-4		U	9.73	0.487
Styrene	100-42-5		U	4.87	0.487
Tetrachloroethene	127-18-4		U	4.87	0.487
Toluene	108-88-3		U	4.87	0.487
trans-1,2-Dichloroethene	156-60-5		U	4.87	0.487
trans-1,3-Dichloropropene	10061-02-6		U	4.87	0.487
Trichloroethene	79-01-6		U	4.87	0.487
Vinyl acetate	108-05-4		U	9.73	0.973
Vinyl chloride	75-01-4		U	9.73	0.973
Xylenes	1330-20-7		U	9.73	0.487

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	85.0	70	121	
4-Bromofluorobenzene	106	59	113	
Dibromofluoromethane	99.9	65	135	
Toluene-d8	104	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-05**
Client ID: **0144-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271622**
Collect Date: **05/08/2008 11:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/19/2008 17:35**
Cal Date: **05/12/2008 18:39**
Run Date: **05/19/2008 17:35**
File ID: **9M61975**
Percent Solid: **77.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.29	0.529
1,1,2,2-Tetrachloroethane	79-34-5		U	5.29	0.529
1,1,2-Trichloroethane	79-00-5		U	5.29	0.529
1,1-Dichloroethane	75-34-3		U	5.29	1.06
1,1-Dichloroethene	75-35-4		U	5.29	0.529
1,2,4-Trichlorobenzene	120-82-1		U	5.29	0.529
1,2-Dichlorobenzene	95-50-1		U	5.29	0.529
1,2-Dichloroethane	107-06-2		U	5.29	0.529
1,2-Dichloropropane	78-87-5		U	5.29	0.529
1,3-Dichlorobenzene	541-73-1		U	5.29	0.529
1,4-Dichlorobenzene	106-46-7		U	5.29	0.529
1,4-Dioxane	123-91-1		U	1800	52.9
2-Butanone	78-93-3		U	26.5	2.65
2-Hexanone	591-78-6		U	10.6	2.65
4-Methyl-2-pentanone	108-10-1		U	10.6	2.65
Acetone	67-64-1		U	106	5.29
Acrylonitrile	107-13-1		U	106	2.65
Benzene	71-43-2		U	5.29	0.529
Bromodichloromethane	75-27-4		U	5.29	0.529
Bromoform	75-25-2		U	5.29	0.529
Bromomethane	74-83-9		U	10.6	1.06
Carbon disulfide	75-15-0		U	5.29	0.529
Carbon tetrachloride	56-23-5		U	5.29	0.529
Chlorobenzene	108-90-7		U	5.29	0.529
Dibromochloromethane	124-48-1		U	5.29	0.529
Chloroethane	75-00-3		U	10.6	1.06
Chloroform	67-66-3		U	5.29	0.529
Chloromethane	74-87-3		U	10.6	2.12
cis-1,2-Dichloroethene	156-59-2		U	5.29	0.529
cis-1,3-Dichloropropene	10061-01-5		U	5.29	0.529
Ethylbenzene	100-41-4		U	5.29	0.529
Methylene chloride	75-09-2		U	5.29	1.06
Methyltert-butyl ether	1634-04-4		U	10.6	0.529
Styrene	100-42-5		U	5.29	0.529
Tetrachloroethene	127-18-4		U	5.29	0.529
Toluene	108-88-3		U	5.29	0.529
trans-1,2-Dichloroethene	156-60-5		U	5.29	0.529
trans-1,3-Dichloropropene	10061-02-6		U	5.29	0.529
Trichloroethene	79-01-6		U	5.29	0.529
Vinyl acetate	108-05-4		U	10.6	1.06
Vinyl chloride	75-01-4		U	10.6	1.06
Xylenes	1330-20-7		U	10.6	0.529

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.4	70	121	
4-Bromofluorobenzene	96.8	59	113	
Dibromofluoromethane	105	65	135	
Toluene-d8	100	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-06**
Client ID: **0140-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271622**
Collect Date: **05/08/2008 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/19/2008 18:07**
Cal Date: **05/12/2008 18:39**
Run Date: **05/19/2008 18:07**
File ID: **9M61976**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.71	0.471
1,1,2,2-Tetrachloroethane	79-34-5		U	4.71	0.471
1,1,2-Trichloroethane	79-00-5		U	4.71	0.471
1,1-Dichloroethane	75-34-3		U	4.71	0.941
1,1-Dichloroethene	75-35-4		U	4.71	0.471
1,2,4-Trichlorobenzene	120-82-1		U	4.71	0.471
1,2-Dichlorobenzene	95-50-1		U	4.71	0.471
1,2-Dichloroethane	107-06-2		U	4.71	0.471
1,2-Dichloropropane	78-87-5		U	4.71	0.471
1,3-Dichlorobenzene	541-73-1		U	4.71	0.471
1,4-Dichlorobenzene	106-46-7		U	4.71	0.471
1,4-Dioxane	123-91-1		U	1600	47.1
2-Butanone	78-93-3		U	23.5	2.35
2-Hexanone	591-78-6		U	9.41	2.35
4-Methyl-2-pentanone	108-10-1		U	9.41	2.35
Acetone	67-64-1		U	94.1	4.71
Acrylonitrile	107-13-1		U	94.1	2.35
Benzene	71-43-2		U	4.71	0.471
Bromodichloromethane	75-27-4		U	4.71	0.471
Bromoform	75-25-2		U	4.71	0.471
Bromomethane	74-83-9		U	9.41	0.941
Carbon disulfide	75-15-0		U	4.71	0.471
Carbon tetrachloride	56-23-5		U	4.71	0.471
Chlorobenzene	108-90-7		U	4.71	0.471
Dibromochloromethane	124-48-1		U	4.71	0.471
Chloroethane	75-00-3		U	9.41	0.941
Chloroform	67-66-3		U	4.71	0.471
Chloromethane	74-87-3		U	9.41	1.88
cis-1,2-Dichloroethene	156-59-2		U	4.71	0.471
cis-1,3-Dichloropropene	10061-01-5		U	4.71	0.471
Ethylbenzene	100-41-4		U	4.71	0.471
Methylene chloride	75-09-2		U	4.71	0.941
Methyltert-butyl ether	1634-04-4		U	9.41	0.471
Styrene	100-42-5		U	4.71	0.471
Tetrachloroethene	127-18-4		U	4.71	0.471
Toluene	108-88-3		U	4.71	0.471
trans-1,2-Dichloroethene	156-60-5		U	4.71	0.471
trans-1,3-Dichloropropene	10061-02-6		U	4.71	0.471
Trichloroethene	79-01-6		U	4.71	0.471
Vinyl acetate	108-05-4		U	9.41	0.941
Vinyl chloride	75-01-4		U	9.41	0.941
Xylenes	1330-20-7		U	9.41	0.471

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	87.2	70	121	
4-Bromofluorobenzene	104	59	113	
Dibromofluoromethane	102	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-07**
Client ID: **TB01-050808**
Matrix: **Water**
Workgroup Number: **WG271172**
Collect Date: **05/08/2008 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **05/14/2008 11:51**
Cal Date: **04/17/2008 17:34**
Run Date: **05/14/2008 11:51**
File ID: **6M75098**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	93.5	76	114	
4-Bromofluorobenzene	103	86	115	
Dibromofluoromethane	95.6	85	115	
Toluene-d8	107	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a\left(c - y\right)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: MRL/CMS/TMB Date Prepared/Preserved: 5-9-08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L08050173-16	A	5-8-08	1310	1222	NA	NA	5.78	5	–	5	
	B		〃	〃			5.61	5	–		
	C		〃	〃			5.74	–	10		
-14	A		1300	1225			5.64	5	–		
	B		〃				5.94	5	–		
	C		〃				5.90	–	10		
-18	A		1455				5.32	5	–		
	B		〃				5.38	5	–		
	C		〃				5.87	–	10		
MRL 5-9-08 -20	A		1600				5.08	5	–		
	B		〃				5.21	5	–		
	C		〃				5.60	–	10		
MRL 5-9-08 L08050173-07	A	5-8-08	0900	1215	NA	NA	5.68	5	–	5	
	B	〃	〃	〃	〃	〃	5.02	5	–	〃	
	C	〃	〃	〃	〃	〃	5.82	–	10	〃	
L08050062-08	A	~~4-28-08~~	NA	NA	NA	NA	5.12	NA	10		
08DUP	〃	〃	〃	〃	〃	〃	5.10	〃	〃		
18	〃	4-29-08	〃	〃	〃	〃	5.17	〃	〃		
19	〃	〃	〃	〃	〃	〃	4.92	〃	〃		
21	〃	〃	〃	〃	〃	〃	4.90	〃	〃		
L08040858-22	A	4-27-08	NA	NA	NA	NA	1.05	5	NA		
-23	〃	〃	〃	〃	〃	〃	5.03	〃	〃		
L08050062-06	A	4-28-08	NA	NA	NA	NA	4.94	NA	10		
L08050189-01	A	5-8-08	1010	1650	NA	NA	6.26	5	–	5	

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

Mi[illegible]bac

mul

VOA Preparation/Preservation and Extraction Log

Analyst: MRY / TMB Date Prepared/Preserved: 5-9-08 Method: GRO / 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L08050170-01	A	5-6-08	NA	NA	NA	NA	5.01	5	NA	GRO	
⊥ -02	⊥	⊥	⊥	⊥	⊥	⊥	5.03	⊥	⊥	⊥	
L08050170-02	A	5-6-08	NA	NA TMB 5/8	NA	NA	.95	5	NA	GRO	
L08050189-01	B	5-8-08	1010	1650 NA 1650	NA	NA	6.07	5	—	5	
⊥	C	⊥	⊥	1650	⊥	⊥	6.22	NA	10	⊥	
ms 02	A	⊥	⊥	1700	⊥	⊥	5.97	5	—	⊥	
⊥	B	⊥	⊥	⊥	⊥	⊥	6.20	⊥	—	⊥	
⊥	C	⊥	⊥	⊥	⊥	⊥	6.21	—	10	⊥	
msd 03	A	⊥	1010	1705	⊥	⊥	6.29	5	—	⊥	
⊥	B	⊥	⊥	⊥	⊥	⊥	6.14	⊥	—	⊥	
⊥	C	⊥	⊥	⊥	⊥	⊥	5.72	—	10	⊥	
04	A	⊥	1040	1710	⊥	⊥	6.09	5	—	⊥	
⊥	B	⊥	⊥	⊥	⊥	⊥	6.11	⊥	—	⊥	
⊥	C	⊥	⊥	⊥	⊥	⊥	6.32	—	10	⊥	
05	A	⊥	1110	1715	⊥	⊥	6.10	5	—	⊥	
⊥	B	⊥	⊥	⊥	⊥	⊥	6.36	⊥	—	⊥	
⊥	C	⊥	⊥	⊥	⊥	⊥	5.82	—	10	⊥	
06	A	⊥	1145	1720	⊥	⊥	5.91	5	—	⊥	
⊥	B	⊥	⊥	⊥	⊥	⊥	6.00	⊥	—	⊥	
⊥	C	⊥	⊥	⊥	⊥	⊥	6.16	—	10	⊥	

TMB 5/8/08

MRY 5/12/08

Comments:
1 = improperly sealed cap
2 = preserved out of hold
(past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041708
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 23802

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74324	WG268581-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/17/08 08:37
2	6M74325	WG268581-02 0.30ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:07
3	6M74326	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:41
4	6M74327	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:14
5	6M74328	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:47
6	6M74329	WG268581-06 5ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:22
7	6M74330	WG268581-07 20ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:55
8	6M74331	WG268581-08 50ug/L STD 8260	NA	1	1	STD25741	04/17/08 12:30
9	6M74332	WG268581-09 100ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:03
10	6M74333	WG268581-10 200ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:36
11	6M74334	WG268581-11 300ug/L STD 8260	NA	1	1	STD25741	04/17/08 14:09
12	6M74335	SYSTEM BLANK	NA	1	1		04/17/08 14:49
13	6M74336	SYSTEM BLANK	NA	1	1		04/17/08 15:22
14	6M74337	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 15:55
15	6M74338	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 16:28
16	6M74339	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:01
17	6M74340	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:34
18	6M74341	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/17/08 18:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X			
File ID: 6M74326				
	DNR			
4	X			
File ID: 6M74327				
	DNR			
5	X			
File ID: 6M74328				
	DNR			
18	X			
File ID: 6M74341				
	DNR			

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74343	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:29
2	6M74344	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:46
3	6M74345	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:14
4	6M74346	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:41
5	6M74347	WG268744-02 50ug/L STD 8260	NA	1	1	STD25741	04/18/08 12:10
6	6M74348	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 12:49
7	6M74349	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 13:22
8	6M74350	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/18/08 13:55
9	6M74351	WG268745-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/18/08 14:28
10	6M74352	WG268745-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25665	04/18/08 15:01
11	6M74353	L08040217-08 A 8260	<2	1	1		04/18/08 15:35
12	6M74354	L08040217-06 A 8260	<2	1	1		04/18/08 16:08
13	6M74355	L08040222-05 A 8260	<2	1	1		04/18/08 16:41
14	6M74356	L08040217-01 A 50X 8260	<2	1	50		04/18/08 17:14
15	6M74357	L08040217-03 A 50X 8260	<2	1	50		04/18/08 17:47
16	6M74358	L08040217-04 A 50X 8260	<2	1	50		04/18/08 18:21
17	6M74359	L08040217-05 A 50X 8260	<2	1	50		04/18/08 18:54
18	6M74360	L08040217-07 A 50X 8260	<2	1	50		04/18/08 19:27
19	6M74361	L08040222-01 A 50X 8260	<2	1	50		04/18/08 20:00
20	6M74362	L08040222-02 A 50X 8260	7	1	50		04/18/08 20:33
21	6M74363	L08040222-03 A 50X 8260	<2	1	50		04/18/08 21:07
22	6M74364	L08040222-04 A 50X 8260	<2	1	50		04/18/08 21:40
23	6M74365	L08040222-06 A 50X 8260	<2	1	50		04/18/08 22:13
24	6M74366	L08040222-08 A 50X 8260	<2	1	50		04/18/08 22:46
25	6M74367	L08040222-10 A 50X 8260	<2	1	50		04/18/08 23:20
26	6M74368	SYSTEM CHECK	NA	1	1		04/18/08 23:53
27	6M74369	SYSTEM CHECK	NA	1	1		04/19/08 00:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 6M74344				
	Replaced septa.			

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 6M74345				
Calibrated mass axis and peak width.				
6	X			
File ID: 6M74348				
14	X	1	Analyzed too dilute	
File ID: 6M74356				
15	X	1	Analyzed too dilute	
File ID: 6M74357				
16	X	1	Analyzed too dilute	
File ID: 6M74358				
17	X	1	Analyzed too dilute	
File ID: 6M74359				
19	X	1	Analyzed too dilute	
File ID: 6M74361				
20	X	1	Analyzed too dilute	
File ID: 6M74362				
21	X	1	Analyzed too dilute	
File ID: 6M74363				
22	X	1	Analyzed too dilute	
File ID: 6M74364				
23	X	1	Analyzed too dilute	
File ID: 6M74365				
24	X	1	Analyzed too dilute	
File ID: 6M74366				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
25	X	1	Analyzed too dilute	
File ID: 6M74367				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61788	system blank	NA	7	1		05/12/08 07:18
2	9M61789	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:17
3	9M61790	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:37
4	9M61792	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 09:35
5	9M61793	WG270933-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26262	05/12/08 10:06
6	9M61794	SYSTEM CHECK	NA	7	1		05/12/08 10:40
7	9M61795	WG270933-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/12/08 11:07
8	9M61797	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 12:03
9	9M61798	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 12:43
10	9M61799	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 13:24
11	9M61800	SYSTEM BLANK	NA	7	1		05/12/08 13:59
12	9M61801	WG270933-03 0.5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 14:31
13	9M61802	WG270933-04 1ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:03
14	9M61803	WG270933-05 2ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:34
15	9M61804	WG270933-06 5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:05
16	9M61805	WG270933-07 20ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:36
17	9M61806	WG270933-08 50ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:06
18	9M61807	WG270933-09 100ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:37
19	9M61808	WG270933-10 200ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:08
20	9M61809	WG270933-11 300ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:39
21	9M61810	SYSTEM BLANK	NA	7	1		05/12/08 19:10
22	9M61811	SYSTEM BLANK	NA	7	1		05/12/08 19:41
23	9M61812	WG270933-12 20ug/Kg ALT SRC STD 826	NA	7	1	STD26314	05/12/08 20:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M61797				
	DNR.			
9				
File ID: 9M61798				
	DNR.			
10				

Approved: May 16, 2008

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61799				
	DNR. Had to run a curve.			
11				
File ID: 9M61800				
	DNR.			

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 051408
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24208

Internal Standard: STD26223 Surrogate Standard: STD26032
CCV: STD26262 LCS: STD26208 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271172

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M75091	WG271171-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/14/08 07:48
2	6M75092	WG271171-02 50ug/L STD 8260	NA	1	1	STD26262	05/14/08 08:14
3	6M75093	WG271172-01 VBLK0514 BLK STD 8260	NA	1	1		05/14/08 09:05
4	6M75094	WG271172-01 VBLK0514 BLK STD 8260	NA	1	1		05/14/08 09:39
5	6M75095	WG271172-02 20ug/L LCS STD 8260	NA	1	1	STD26208	05/14/08 10:12
6	6M75096	WG271172-03 20ug/L LCSDUP STD 8260	NA	1	1	STD26208	05/14/08 10:45
7	6M75097	L08050172-12 B 5X 826-LOW D1	<2	1	5		05/14/08 11:18
8	6M75098	L08050189-07 A 826-SPE	<2	1	1		05/14/08 11:51
9	6M75099	L08050186-01 B 826-SPE	<2	1	1		05/14/08 12:24
10	6M75100	L08050172-10 B 20X 826-LOW D1	<2	1	20		05/14/08 12:57
11	6M75101	L08050193-17 A 826-SPE	<2	1	1		05/14/08 13:30
12	6M75102	L08050193-23 A 826-SPE	<2	1	1		05/14/08 14:03
13	6M75103	L08050193-18 A 100X 826-SPE	<2	1	100		05/14/08 14:35
14	6M75104	L08050193-19 A 826-SPE	<2	1	1		05/14/08 15:08
15	6M75105	L08050193-20 A 826-SPE	<2	1	1		05/14/08 15:41
16	6M75106	L08050193-21 A 500X 826-SPE	<2	1	500		05/14/08 16:14
17	6M75107	L08050193-22 A 826-SPE	<2	1	1		05/14/08 16:47
18	6M75108	L08050188-16 A 826-SPE1	<2	1	1		05/14/08 17:20
19	6M75109	L08050188-17 A 826-SPE1	<2	1	1		05/14/08 17:53
20	6M75110	L08050188-18 A 826-SPE1	<2	1	1		05/14/08 18:26
21	6M75111	L08050188-19 A 826-SPE1	<2	1	1		05/14/08 19:00
22	6M75112	L08050188-20 A 826-SPE1	<2	1	1		05/14/08 19:33
23	6M75113	sysytem blank	NA	1	1		05/14/08 20:06
24	6M75114	sysytem check	NA	1	1		05/14/08 20:39

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 6M75093				
	DNR			
20	X	10	Over Calibration Range	PCE
File ID: 6M75110				
22	X		Internal standard failure	

Approved: May 19, 2008

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 051408
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24208

Internal Standard: STD26223 Surrogate Standard: STD26032
CCV: STD26262 LCS: STD26208 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271172

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 6M75112				
	DNR			

Approved: May 19, 2008

Page: 2

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051908
Analyst1: FJB Analyst2: TMB
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24229

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26411 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271622; WG271700

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61959	WG271621-01 50ng BFB STD 8260	NA	7	1	STD26149	05/19/08 09:09
2	9M61960	WG271621-02 50ug/L STD 8260	NA	7	1	STD26411	05/19/08 09:35
3	9M61961	WG271621-02 50ug/L STD 8260	NA	7	1	STD26411	05/19/08 10:13
4	9M61962	WG271622-01 VBLK0519 BLANK 8260	NA	7	1		05/19/08 10:45
5	9M61963	WG271622-02 20ug/L LCS STD 8260	NA	7	1	STD26340	05/19/08 11:17
6	9M61964	L08050321-03 B 826-SPE	NA	7	1		05/19/08 11:48
7	9M61965	L08050309-02 A 8260	NA	7	1		05/19/08 12:20
8	9M61966	L08050309-04 A 8260	NA	7	1		05/19/08 12:52
9	9M61967	L08050321-09 A 826-SPE	NA	7	1		05/19/08 13:23
10	9M61968	L08050321-11 A 826-SPE	NA	7	1		05/19/08 13:54
11	9M61969	L08050321-13 A 826-SPE	NA	7	1		05/19/08 14:26
12	9M61970	L08050321-15 A 826-SPE	NA	7	1		05/19/08 14:57
13	9M61971	L08050189-01 B 826-SPE	NA	7	1		05/19/08 15:28
14	9M61972	L08050189-02 MS A 826-SPE	NA	7	1	STD26340	05/19/08 15:59
15	9M61973	L08050189-03 MSD A 826-SPE	NA	7	1	STD26340	05/19/08 16:32
16	9M61974	L08050189-04 A 826-SPE	NA	7	1		05/19/08 17:04
17	9M61975	L08050189-05 A 826-SPE	NA	7	1		05/19/08 17:35
18	9M61976	L08050189-06 A 826-SPE	NA	7	1		05/19/08 18:07
19	9M61977	L08050289-08 A 826-SPE	NA	7	1		05/19/08 18:38
20	9M61978	L08050289-09 A 826-SPE	NA	7	1		05/19/08 19:09
29	9M61979	WG271699-01 50ng BFB STD 8260	NA	7	1	STD26149	05/19/08 20:03
28	9M61980	WG271699-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26411	05/19/08 20:29
21	9M61981	WG271700-01 VBLK0519 BLANK STD 826	NA	7	1		05/19/08 21:01
22	9M61982	WG271700-02 20ug/L LCS STD 8260	NA	7	1	STD26340	05/19/08 21:33
23	9M61983	L08050309-04 5X D1 8260	NA	7	1		05/19/08 22:04
24	9M61984	L08050333-01 A 826-SPE	NA	7	1		05/19/08 22:35
25	9M61985	L08050333-02 A 826-SPE	NA	7	1		05/19/08 23:07
26	9M61986	L08050333-03 A 826-SPE	NA	7	1		05/19/08 23:38
27	9M61987	L08050333-04 A 826-SPE	NA	7	1		05/20/08 00:10

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			

Approved: May 21, 2008

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051908
Analyst1: FJB Analyst2: TMB
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24229

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26411 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271622; WG271700

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61960				
	Gases were low. DNR.			
8	X	5	Internal standard and surrogate standard failure	ACE
File ID: 9M61966				
	ACE was over the calibration range.			
27				
File ID: 9M61987				
	Instrument errored and no more samples ran. The ms/msd did not run either. Needs a case narrative.			

Approved: May 21, 2008

Microbac Laboratories Inc.

Data Checklist

Date: 17-APR-2008
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21761
Analytical Workgroups: WG268581

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
22-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:57:54

Microbac Laboratories Inc.

Data Checklist

Date: 18-APR-2008
Analyst: ASP
Analyst: CMS
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21767
Analytical Workgroups: WG268745

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:58:36

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22226
Analytical Workgroups: WG270933

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 13:40:10

Microbac Laboratories Inc.

Data Checklist

Date: 14-MAY-2008
Analyst: CMS
Analyst: NA
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 22255
Analytical Workgroups: WG271172

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
19-MAY-2008

Secondary Reviewer:
19-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-19-2008 15:40:04

Microbac Laboratories Inc.

Data Checklist

Date: 19-MAY-2008
Analyst: FJB
Analyst: TMB
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22284
Analytical Workgroups: WG271622; WG271700

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
20-MAY-2008

Secondary Reviewer:
21-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-21-2008 09:20:35

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG271172

Login Number: L08050189

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TB01-050808	05/08/08	05/09/08	05/14/08	14	6.49	05/14/08	14	6.49	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG271622

Login Number: L08050189

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0143-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.2	05/19/08	14	11.2	
0140-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.3	05/19/08	14	11.3	
0142-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.3	05/19/08	14	11.3	
0143-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.3	05/19/08	14	11.3	
0143-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.2	05/19/08	14	11.2	
0144-SO01-050808	05/08/08	05/09/08	05/19/08	14	11.3	05/19/08	14	11.3	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1099203
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050189
Instrument Id: HPMS9
Workgroup (AAB#): WG271622

Method: 8260
CAL ID: HPMS9-12-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050189-01	1.00	01	89.9	104	99.0	100
L08050189-02	1.00	01	88.3	99.7	94.6	99.3
L08050189-03	1.00	01	81.8	65.1	95.0	98.9
L08050189-04	1.00	01	85.0	99.9	106	104
L08050189-05	1.00	01	89.4	105	96.8	100
L08050189-06	1.00	01	87.2	102	104	103
WG271622-01	1.00	01	87.3	104	94.7	98.5
WG271622-02	1.00	01	88.9	104	96.0	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1099209
Report generated: 05/21/2008 12:11

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050189
Instrument Id: HPMS6
Workgroup (AAB#): WG271172

Method: 8260
CAL ID: HPMS6-17-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08050189-07	1.00	01	93.5	95.6	103	107
WG271172-01	1.00	01	93.6	97.4	105	109
WG271172-02	1.00	01	93.5	97.4	101	106
WG271172-03	1.00	01	90.9	95.6	99.5	108

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1099209
Report generated: 05/21/2008 12:11

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050189	Work Group:	WG271172
Blank File ID:	6M75094	Blank Sample ID:	WG271172-01
Prep Date:	05/14/08 09:39	Instrument ID:	HPMS6
Analyzed Date:	05/14/08 09:39	Method:	8260B
Analyst:	CMS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271172-02	6M75095	05/14/08 10:12	01
LCS2	WG271172-03	6M75096	05/14/08 10:45	01
TB01-050808	L08050189-07	6M75098	05/14/08 11:51	01

Report Name: BLANK_SUMMARY
PDF File ID: 1099204
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050189	Work Group:	WG271622
Blank File ID:	9M61962	Blank Sample ID:	WG271622-01
Prep Date:	05/19/08 10:45	Instrument ID:	HPMS9
Analyzed Date:	05/19/08 10:45	Method:	8260B
Analyst:	FJB		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271622-02	9M61963	05/19/08 11:17	01
0143-SO01-050808	L08050189-01	9M61971	05/19/08 15:28	01
0143-SO01-050808	L08050189-02	9M61972	05/19/08 15:59	01
0143-SO01-050808	L08050189-03	9M61973	05/19/08 16:32	01
0142-SO01-050808	L08050189-04	9M61974	05/19/08 17:04	01
0144-SO01-050808	L08050189-05	9M61975	05/19/08 17:35	01
0140-SO01-050808	L08050189-06	9M61976	05/19/08 18:07	01

Report Name: BLANK_SUMMARY
PDF File ID: 1099204
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/14/08 09:39 Sample ID: WG271172-01
Instrument ID: HPMS6 Run Date: 05/14/08 09:39 Prep Method: 5030B
File ID: 6M75094 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271172 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

Report Name:BLANK
PDF ID: 1099205
23-MAY-2008 16:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/14/08 09:39 Sample ID: WG271172-01
Instrument ID: HPMS6 Run Date: 05/14/08 09:39 Prep Method: 5030B
File ID: 6M75094 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271172 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.6	76 - 114	PASS
4-Bromofluorobenzene	105	86 - 115	PASS
Dibromofluoromethane	97.4	85 - 115	PASS
Toluene-d8	109	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1099205
23-MAY-2008 16:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/19/08 10:45 Sample ID: WG271622-01
Instrument ID: HPMS9 Run Date: 05/19/08 10:45 Prep Method: 5030B
File ID: 9M61962 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271622 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
PDF ID: 1099205
23-MAY-2008 16:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/19/08 10:45 Sample ID: WG271622-01
Instrument ID: HPMS9 Run Date: 05/19/08 10:45 Prep Method: 5030B
File ID: 9M61962 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271622 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	87.3	70 - 121	PASS
4-Bromofluorobenzene	94.7	59 - 113	PASS
Dibromofluoromethane	104	65 - 135	PASS
Toluene-d8	98.5	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1099205
23-MAY-2008 16:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Run Date: 05/19/2008 Sample ID: WG271622-02
Instrument ID: HPMS9 Run Time: 11:17 Prep Method: 5030B
File ID: 9M61963 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271622 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	22.0	110	68 - 130	
1,1,2,2-Tetrachloroethane	20.0	20.0	99.9	59 - 140	
1,1,2-Trichloroethane	20.0	22.0	110	62 - 127	
1,1-Dichloroethane	20.0	20.4	102	73 - 125	
1,1-Dichloroethene	20.0	20.6	103	65 - 136	
1,2,4-Trichlorobenzene	20.0	22.3	111	65 - 131	
1,2-Dichlorobenzene	20.0	21.3	107	74 - 120	
1,2-Dichloroethane	20.0	19.0	95.2	72 - 137	
1,2-Dichloropropane	20.0	21.4	107	71 - 120	
1,3-Dichlorobenzene	20.0	21.0	105	72 - 124	
1,4-Dichlorobenzene	20.0	20.0	99.9	72 - 125	
1,4-Dioxane	200	214	107	50 - 150	
2-Butanone	20.0	21.0	105	40 - 135	
2-Hexanone	20.0	21.0	105	50 - 140	
4-Methyl-2-pentanone	20.0	22.7	113	50 - 140	
Acetone	20.0	17.5	87.5	40 - 141	
Acrylonitrile	20.0	20.6	103	60 - 140	
Benzene	20.0	21.8	109	73 - 126	
Bromodichloromethane	20.0	22.1	110	72 - 128	
Bromoform	20.0	23.3	117	60 - 137	
Bromomethane	20.0	24.7	124	45 - 141	
Carbon disulfide	20.0	18.2	91.0	65 - 135	
Carbon tetrachloride	20.0	23.5	117	67 - 133	
Chlorobenzene	20.0	21.1	106	75 - 123	
Dibromochloromethane	20.0	22.4	112	66 - 130	
Chloroethane	20.0	22.3	111	41 - 141	
Chloroform	20.0	20.9	104	72 - 124	
Chloromethane	20.0	19.1	95.7	51 - 129	
cis-1,2-Dichloroethene	20.0	23.9	119	67 - 125	
cis-1,3-Dichloropropene	20.0	21.2	106	72 - 126	
Ethylbenzene	20.0	22.5	112	74 - 127	
Methylene chloride	20.0	20.3	101	63 - 137	
Methyltert-butyl ether	20.0	22.5	113	50 - 135	
Styrene	20.0	20.8	104	74 - 128	
Tetrachloroethene	20.0	22.2	111	67 - 139	
Toluene	20.0	22.0	110	71 - 127	
trans-1,2-Dichloroethene	20.0	23.2	116	66 - 134	
trans-1,3-Dichloropropene	20.0	18.6	92.9	65 - 127	
Trichloroethene	20.0	24.1	121	77 - 124	
Vinyl acetate	20.0	12.4	62.1	55 - 130	
Vinyl chloride	20.0	22.9	114	58 - 126	

LCS - Modified 03/06/2008
PDF File ID: 1098579
Report generated: 05/23/2008 16:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Run Date: 05/19/2008 Sample ID: WG271622-02
Instrument ID: HPMS9 Run Time: 11:17 Prep Method: 5030B
File ID: 9M61963 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271622 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	65.5	109	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	88.9	70 - 121	PASS
4-Bromofluorobenzene	96.0	59 - 113	PASS
Dibromofluoromethane	104	65 - 135	PASS
Toluene-d8	101	86 - 138	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1098579
Report generated: 05/23/2008 16:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG271172 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26208

Sample ID: WG271172-02 LCS File ID: 6M75095 Run Date: 05/14/2008 10:12
Sample ID: WG271172-03 LCS2 File ID: 6M75096 Run Date: 05/14/2008 10:45

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	20.7	103	20.0	20.2	101	2.15	67 - 132	20	
1,1,2,2-Tetrachloroethane	20.0	20.6	103	20.0	20.4	102	1.06	63 - 128	20	
1,1,2-Trichloroethane	20.0	21.0	105	20.0	21.5	108	2.35	70 - 125	20	
1,1-Dichloroethane	20.0	21.8	109	20.0	21.4	107	1.50	67 - 133	20	
1,1-Dichloroethene	20.0	20.9	104	20.0	20.1	101	3.59	68 - 130	20	
1,2,4-Trichlorobenzene	20.0	22.3	112	20.0	22.7	113	1.55	65 - 134	20	
1,2-Dichlorobenzene	20.0	21.7	109	20.0	21.8	109	0.516	71 - 122	20	
1,2-Dichloroethane	20.0	21.0	105	20.0	20.4	102	3.15	69 - 132	20	
1,2-Dichloropropane	20.0	20.7	103	20.0	20.4	102	1.16	75 - 125	20	
1,3-Dichlorobenzene	20.0	21.8	109	20.0	21.8	109	0.268	75 - 124	20	
1,4-Dichlorobenzene	20.0	21.0	105	20.0	20.8	104	1.10	74 - 123	20	
1,4-Dioxane	200	144	72.2	200	161	80.4	10.8	70 - 130	20	
2-Butanone	20.0	21.1	106	20.0	21.9	109	3.44	49 - 136	20	
2-Hexanone	20.0	18.3	91.7	20.0	18.1	90.5	1.30	65 - 135	20	
4-Methyl-2-pentanone	20.0	21.4	107	20.0	21.1	106	1.20	58 - 134	20	
Acetone	20.0	20.6	103	20.0	20.6	103	0.107	30 - 135	20	
Acrylonitrile	20.0	22.3	111	20.0	20.8	104	6.78	60 - 135	20	
Benzene	20.0	21.8	109	20.0	21.6	108	1.00	81 - 122	20	
Bromodichloromethane	20.0	22.9	114	20.0	22.7	114	0.649	76 - 121	20	
Bromoform	20.0	19.5	97.6	20.0	19.4	96.8	0.775	69 - 128	20	
Bromomethane	20.0	25.2	126	20.0	25.5	127	0.995	53 - 141	20	
Carbon disulfide	20.0	20.2	101	20.0	19.6	98.0	3.17	70 - 130	20	
Carbon tetrachloride	20.0	21.2	106	20.0	20.4	102	3.56	66 - 138	20	
Chlorobenzene	20.0	21.1	105	20.0	21.2	106	0.679	81 - 122	20	
Dibromochloromethane	20.0	19.6	98.2	20.0	19.5	97.6	0.656	66 - 133	20	
Chloroethane	20.0	18.1	90.7	20.0	17.8	88.9	2.00	58 - 133	20	
Chloroform	20.0	22.2	111	20.0	21.7	109	2.06	69 - 128	20	
Chloromethane	20.0	21.2	106	20.0	21.5	108	1.42	56 - 131	20	
cis-1,2-Dichloroethene	20.0	23.7	118	20.0	23.5	117	0.763	72 - 126	20	
cis-1,3-Dichloropropene	20.0	19.6	97.9	20.0	19.4	97.1	0.879	69 - 131	20	
Ethylbenzene	20.0	23.1	116	20.0	23.1	116	0.0300	73 - 127	20	
Methylene chloride	20.0	19.8	99.0	20.0	19.1	95.4	3.67	63 - 137	20	
Methyltert-butyl ether	20.0	22.6	113	20.0	22.4	112	0.930	65 - 123	20	
Styrene	20.0	20.0	99.9	20.0	20.1	100	0.465	65 - 134	20	
Tetrachloroethene	20.0	23.6	118	20.0	23.7	119	0.488	66 - 128	20	
Toluene	20.0	23.3	116	20.0	23.3	116	0.0620	77 - 122	20	
trans-1,2-Dichloroethene	20.0	20.5	102	20.0	20.6	103	0.488	63 - 137	20	
trans-1,3-Dichloropropene	20.0	19.4	97.0	20.0	19.3	96.5	0.490	59 - 135	20	
Trichloroethene	20.0	20.2	101	20.0	19.9	99.6	1.61	70 - 127	20	
Vinyl acetate	20.0	20.5	103	20.0	19.6	98.2	4.46	65 - 130	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096860
Report generated: 05/21/2008 12:11

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG271172 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26208

Sample ID: WG271172-02 LCS File ID: 6M75095 Run Date: 05/14/2008 10:12
Sample ID: WG271172-03 LCS2 File ID: 6M75096 Run Date: 05/14/2008 10:45

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	24.3	121	20.0	24.0	120	1.05	50 - 134	20	
Xylenes	60.0	66.2	110	60.0	67.1	112	1.36	75 - 120	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	97.4	95.6	85 - 115	PASS
1,2-Dichloroethane-d4	93.5	90.9	76 - 114	PASS
Toluene-d8	106	108	88 - 110	PASS
4-Bromofluorobenzene	101	99.5	86 - 115	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096860
Report generated: 05/21/2008 12:11

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L08050189 Cal ID: HPMS9-12-MAY-08 Worknum: WG271622

Instrument ID: HPMS9 Contract #: Prep Method: 5030B

Parent ID: L08050189-01 File ID: 9M61971 Dil: 1 Method: 8260B

Sample ID: L08050189-02 MS File ID: 9M61972 Dil: 1 Matrix: Soil

Sample ID: L08050189-03 MSD File ID: 9M61973 Dil: 1 Units: ug/kg

Percent Solid: 85.7

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1-Trichloroethane	U	19.5	19.5	99.7	18.6	15.9	85.7	20.3	68 - 130	30	
1,1,2,2-Tetrachloroethane	U	19.5	0.830	4.25	18.6	0	0	200	59 - 140	30	*#
1,1,2-Trichloroethane	U	19.5	19.4	99.1	18.6	16.3	87.8	17.3	62 - 127	30	
1,1-Dichloroethane	U	19.5	18.5	94.5	18.6	15.5	83.5	17.6	73 - 125	30	
1,1-Dichloroethene	U	19.5	18.6	95.3	18.6	16.8	90.6	10.3	65 - 136	30	
1,2,4-Trichlorobenzene	U	19.5	16.3	83.2	18.6	12.7	68.2	25.0	65 - 131	30	
1,2-Dichlorobenzene	U	19.5	17.0	87.2	18.6	14.3	76.8	17.8	74 - 120	30	
1,2-Dichloroethane	U	19.5	17.4	88.8	18.6	14.9	80.1	15.5	72 - 137	30	
1,2-Dichloropropane	U	19.5	19.1	97.8	18.6	17.2	92.5	10.9	71 - 120	30	
1,3-Dichlorobenzene	U	19.5	16.6	85.1	18.6	13.2	71.3	22.8	72 - 124	30	*
1,4-Dichlorobenzene	U	19.5	15.4	78.8	18.6	12.6	68.0	19.9	72 - 125	30	*
1,4-Dioxane	U	195	255	131	186	232	125	9.36	50 - 150	30	
2-Butanone	U	19.5	22.9	117	18.6	25.3	137	10.1	40 - 135	30	*
2-Hexanone	U	19.5	16.4	83.7	18.6	17.0	91.7	3.89	50 - 140	30	
4-Methyl-2-pentanone	U	19.5	19.3	98.8	18.6	21.4	115	10.3	50 - 140	30	
Acetone	U	19.5	54.9	281	18.6	74.3	401	30.1	40 - 141	30	*#
Acrylonitrile	U	19.5	18.1	92.4	18.6	17.4	93.8	3.74	60 - 140	30	
Benzene	U	19.5	20.1	103	18.6	17.9	96.3	11.6	73 - 126	30	
Bromodichloromethane	U	19.5	19.7	101	18.6	16.6	89.6	17.0	72 - 128	30	
Bromoform	U	19.5	19.3	98.9	18.6	18.2	98.3	5.84	60 - 137	30	
Bromomethane	U	19.5	21.9	112	18.6	20.9	113	4.78	45 - 141	30	
Carbon disulfide	U	19.5	14.7	75.0	18.6	13.1	70.7	11.2	65 - 135	30	
Carbon tetrachloride	U	19.5	20.3	104	18.6	16.4	88.4	21.4	67 - 133	30	
Chlorobenzene	U	19.5	17.9	91.7	18.6	15.7	84.4	13.5	75 - 123	30	
Dibromochloromethane	U	19.5	19.5	99.7	18.6	17.2	92.9	12.3	66 - 130	30	
Chloroethane	U	19.5	20.2	103	18.6	18.5	99.8	8.65	41 - 141	30	
Chloroform	U	19.5	18.8	96.1	18.6	15.9	85.7	16.6	72 - 124	30	
Chloromethane	U	19.5	17.4	88.8	18.6	16.8	90.7	3.12	51 - 129	30	
cis-1,2-Dichloroethene	U	19.5	21.5	110	18.6	17.7	95.3	19.3	67 - 125	30	
cis-1,3-Dichloropropene	U	19.5	19.0	97.0	18.6	17.0	91.6	10.9	72 - 126	30	
Ethylbenzene	U	19.5	18.9	96.4	18.6	16.3	88.1	14.3	74 - 127	30	
Methylene chloride	U	19.5	18.0	91.8	18.6	16.1	86.7	11.0	63 - 137	30	
Methyltert-butyl ether	U	19.5	20.8	106	18.6	18.3	98.9	12.5	50 - 135	30	
Styrene	U	19.5	17.3	88.3	18.6	14.9	80.4	14.5	74 - 128	30	
Tetrachloroethene	U	19.5	22.9	117	18.6	20.5	111	10.7	67 - 139	30	
Toluene	U	19.5	19.1	97.9	18.6	17.2	92.7	10.7	71 - 127	30	
trans-1,2-Dichloroethene	U	19.5	20.4	104	18.6	16.0	86.2	24.1	66 - 134	30	
trans-1,3-Dichloropropene	U	19.5	16.4	84.0	18.6	14.5	78.2	12.3	65 - 127	30	
Trichloroethene	U	19.5	37.8	193	18.6	34.3	185	9.69	77 - 124	30	*
Vinyl acetate	U	19.5	0	0	18.6	0	0	NA	55 - 130	30	*#
Vinyl chloride	U	19.5	20.7	106	18.6	19.4	105	6.41	58 - 126	30	

MS_MSD - Modified 03/06/2008

PDF File ID: 1098580

Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L08050189 Cal ID: HPMS9 12-MAY-08 Worknum: WG271622

Instrument ID: HPMS9 Contract #: Prep Method: 5030B

Parent ID: L08050189-01 File ID: 9M61971 Dil: 1 Method: 8260B

Sample ID: L08050189-02 MS File ID: 9M61972 Dil: 1 Matrix: Soil

Sample ID: L08050189-03 MSD File ID: 9M61973 Dil: 1 Units: ug/kg

Percent Solid: 85.7

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Xylenes	U	58.6	56.8	96.9	55.7	48.6	87.3	15.6	75 - 130	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1098580

Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050189
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268581

Tune ID: WG268581-01
Run Date: 04/17/2008
Run Time: 08:37
File ID: 6M74324
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.7	5835	PASS
75.0	95.0	30.0	60.0	54.3	12819	PASS
95.0	95.0	100	100	100	23626	PASS
96.0	95.0	5.00	9.00	6.76	1597	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	65.0	15368	PASS
175	174	5.00	9.00	6.51	1001	PASS
176	174	95.0	101	99.4	15270	PASS
177	176	5.00	9.00	6.11	933	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-02	STD	01	04/17/2008 09:07	
WG268581-06	STD	01	04/17/2008 11:22	
WG268581-07	STD	01	04/17/2008 11:55	
WG268581-08	STD-CCV	01	04/17/2008 12:30	
WG268581-09	STD	01	04/17/2008 13:03	
WG268581-10	STD	01	04/17/2008 13:36	
WG268581-11	STD	01	04/17/2008 14:09	
WG268581-05	STD	01	04/17/2008 16:28	
WG268581-04	STD	01	04/17/2008 17:01	
WG268581-03	STD	01	04/17/2008 17:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1099207
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050189
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268744

Tune ID: WG268744-01
Run Date: 04/18/2008
Run Time: 11:41
File ID: 6M74346
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.1	6222	PASS
75.0	95.0	30.0	60.0	54.1	14553	PASS
95.0	95.0	100	100	100	26922	PASS
96.0	95.0	5.00	9.00	6.39	1719	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	61.5	16556	PASS
175	174	5.00	9.00	7.12	1179	PASS
176	174	95.0	101	98.6	16324	PASS
177	176	5.00	9.00	5.68	927	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-12	SSCV	01	04/18/2008 13:55	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1099207
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050189
Instrument: HPMS6
Analyst: CMS
Workgroup: WG271171

Tune ID: WG271171-01
Run Date: 05/14/2008
Run Time: 07:48
File ID: 6M75091
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.5	6934	PASS
75.0	95.0	30.0	60.0	50.0	15386	PASS
95.0	95.0	100	100	100	30781	PASS
96.0	95.0	5.00	9.00	6.43	1978	PASS
173	174	0	2.00	0.744	144	PASS
174	95.0	50.0	100	62.9	19357	PASS
175	174	5.00	9.00	7.91	1532	PASS
176	174	95.0	101	98.0	18968	PASS
177	176	5.00	9.00	7.04	1335	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271171-02	CCV	01	05/14/2008 08:14	
WG271172-01	BLANK	01	05/14/2008 09:39	
WG271172-02	LCS	01	05/14/2008 10:12	
WG271172-03	LCS2	01	05/14/2008 10:45	
L08050189-07	TB01-050808	01	05/14/2008 11:51	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1099207
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050189
Instrument: HPMS9
Analyst: TMB
Workgroup: WG270933

Tune ID: WG270933-01
Run Date: 05/12/2008
Run Time: 11:07
File ID: 9M61795
Cal ID: HPMS9-02-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.0	3552	PASS
75.0	95.0	30.0	60.0	54.5	8072	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.47	959	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	60.9	9034	PASS
175	174	5.00	9.00	8.38	757	PASS
176	174	95.0	101	95.6	8636	PASS
177	176	5.00	9.00	5.69	491	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270933-03	STD-S	01	05/12/2008 14:31	
WG270933-04	STD-S	01	05/12/2008 15:03	
WG270933-05	STD-S	01	05/12/2008 15:34	
WG270933-06	STD-S	01	05/12/2008 16:05	
WG270933-07	STD-S	01	05/12/2008 16:36	
WG270933-08	STD-CCV-S	01	05/12/2008 17:06	
WG270933-09	STD-S	01	05/12/2008 17:37	
WG270933-10	STD-S	01	05/12/2008 18:08	
WG270933-11	STD-S	01	05/12/2008 18:39	
WG270933-12	SSCV-S	01	05/12/2008 20:12	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1099207
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050189
Instrument: HPMS9
Analyst: FJB
Workgroup: WG271621

Tune ID: WG271621-01
Run Date: 05/19/2008
Run Time: 09:09
File ID: 9M61959
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.8	2938	PASS
75.0	95.0	30.0	60.0	50.2	7443	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.42	952	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	64.5	9565	PASS
175	174	5.00	9.00	6.94	664	PASS
176	174	95.0	101	97.4	9314	PASS
177	176	5.00	9.00	6.22	579	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271621-02	CCV-S	01	05/19/2008 10:13	
WG271622-01	BLANK	01	05/19/2008 10:45	
WG271622-02	LCS	01	05/19/2008 11:17	
L08050189-01	0143-SO01-050808	01	05/19/2008 15:28	
WG271622-03	REF	01	05/19/2008 15:28	
L08050189-02	0143-SO01-050808	01	05/19/2008 15:59	
WG271622-04	MS	01	05/19/2008 15:59	
L08050189-03	0143-SO01-050808	01	05/19/2008 16:32	
WG271622-05	MSD	01	05/19/2008 16:32	
L08050189-04	0142-SO01-050808	01	05/19/2008 17:04	
L08050189-05	0144-SO01-050808	01	05/19/2008 17:35	
L08050189-06	0140-SO01-050808	01	05/19/2008 18:07	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
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Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050189 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

ICAL Workgroup: WG268581 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3223	21.7		1.00
1,2-Dichloropropane	CCC	0.2059	11.4		
Chloroform	CCC	0.4245	7.77		
Ethylbenzene	CCC	0.3544	14.0		
Toluene	CCC	0.9880	9.37		
Vinyl Chloride	CCC	0.1848	14.0		
1,1,2,2-Tetrachloroethane	SPCC	0.3941	11.3		
1,1-Dichloroethane	SPCC	0.4171	11.5		
Bromoform	SPCC	0.1346	18.5	1.00	
Chlorobenzene	SPCC	0.7123	4.25		
Chloromethane	SPCC	0.2801	7.35		
1,1,1-Trichloroethane		0.3724	21.9	1.00	
1,1,2-Trichloroethane		0.1864	5.86		
1,2,4-Trichlorobenzene		0.6579	6.63		
1,2-Dichlorobenzene		0.9364	5.40		
1,2-Dichloroethane		0.3502	4.00		
1,3-Dichlorobenzene		1.022	4.90		
1,4-Dichlorobenzene		1.092	3.52		
1,4-Dioxane		0.001133	35.0		0.991
2-Butanone		0.06587	11.1		
2-Hexanone		0.1291	11.8		
4-Methyl-2-Pentanone		0.05044	22.0	0.998	
Acetone		0.04653	7.11		
Acrylonitrile		0.04803	23.6		1.00
Benzene		0.7533	10.3		
Bromodichloromethane		0.3033	14.3		
Bromomethane		0.1167	38.7		1.00
Carbon Disulfide		0.5297	21.1		1.00
Carbon Tetrachloride		0.2937	24.1	1.00	
Chloroethane		0.1615	22.2		1.00
Dibromochloromethane		0.2280	16.2	1.00	
Methyl Tert Butyl Ether		0.4486	15.5		
Methylene Chloride		0.2016	11.2		
Styrene		0.7948	17.1		1.00
Tetrachloroethene		0.2174	14.0		
Trichloroethene		0.1669	19.2		1.00
Vinyl Acetate		0.3242	5.78		
cis-1,2-Dichloroethene		0.1906	14.2		
cis-1,3-Dichloropropene		0.3033	22.4		1.00
m-,p-Xylene		0.4460	13.9		
o-Xylene		0.4387	16.7		1.00
trans-1,2-Dichloroethene		0.1703	18.7		1.00
trans-1,3-Dichloropropene		0.4226	12.9		

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050189
Analytical Method: 8260B
ICAL Workgroup: WG268581

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1099206
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050189 **Instrument ID:** HPMS9
Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39
ICAL Workgroup: WG270933 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.4588	7.55		
1,2-Dichloropropane	CCC	0.2608	10.7		
Chloroform	CCC	0.5162	3.59		
Ethylbenzene	CCC	0.5626	9.19		
Toluene	CCC	1.724	12.5		
Vinyl Chloride	CCC	0.1858	12.0		
1,1,2,2-Tetrachloroethane	SPCC	0.7830	4.40		
1,1-Dichloroethane	SPCC	0.5553	3.69		
Bromoform	SPCC	0.1603	13.5		
Chlorobenzene	SPCC	1.026	3.24		
Chloromethane	SPCC	0.3160	14.7		
1,1,1-Trichloroethane		0.4383	6.48		
1,1,2-Trichloroethane		0.2955	6.26		
1,2,4-Trichlorobenzene		0.8378	12.8		
1,2-Dichlorobenzene		1.288	4.20		
1,2-Dichloroethane		0.4151	5.15		
1,3-Dichlorobenzene		1.452	3.94		
1,4-Dichlorobenzene		1.533	6.37		
1,4-Dioxane		0.001683	22.2	0.997	
2-Butanone		0.1054	8.74		
2-Hexanone		0.2294	14.2		
4-Methyl-2-Pentanone		0.07657	11.7		
Acetone		0.08272	28.3	0.999	
Acrylonitrile		0.07434	13.1		
Benzene		1.089	4.81		
Bromodichloromethane		0.3374	9.35		
Bromomethane		0.1093	8.38		
Carbon Disulfide		0.9167	5.80		
Carbon Tetrachloride		0.3112	13.7		
Chloroethane		0.1761	3.81		
Dibromochloromethane		0.2826	14.3		
Methyl Tert Butyl Ether		0.6528	12.5		
Methylene Chloride		0.2741	12.4		
Styrene		1.015	17.0	1.00	
Tetrachloroethene		0.3176	6.72		
Trichloroethene		0.2225	6.49		
Vinyl Acetate		0.4854	11.1		
cis-1,2-Dichloroethene		0.2590	6.95		
cis-1,3-Dichloropropene		0.3986	15.0		
m-,p-Xylene		0.6677	10.2		
o-Xylene		0.5964	19.4	1.00	
trans-1,2-Dichloroethene		0.2562	9.35		
trans-1,3-Dichloropropene		0.6074	14.3		

INT_CAL - Modified 03/06/2008
PDF File ID: 1099206
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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050189
Analytical Method: 8260B
ICAL Workgroup: WG270933

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1099206
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	1.00	7093.00000	0.2582
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	5051.00000	0.1839
Chloroform	0.300	3813.00000	0.4238	0.400	4177.00000	0.3953	1.00	10990.0000	0.4000
Ethylbenzene	NA	NA	NA	0.400	2333.00000	0.3035	1.00	6244.00000	0.3128
Toluene	NA	NA	NA	0.400	7027.00000	0.9142	1.00	17568.0000	0.8802
Vinyl Chloride	NA	NA	NA	0.400	1684.00000	0.1594	1.00	5494.00000	0.2000
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1339.00000	0.3131	1.00	4089.00000	0.3658
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	1.00	10008.0000	0.3643
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2140.00000	0.1072
Chlorobenzene	NA	NA	NA	0.400	5272.00000	0.6859	1.00	13791.0000	0.6909
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	7787.00000	0.2835
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	1.00	7587.00000	0.2762
1,1,2-Trichloroethane	NA	NA	NA	0.400	1285.00000	0.1672	1.00	3704.00000	0.1856
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	2689.00000	0.6287	1.00	6958.00000	0.6224
1,2-Dichlorobenzene	0.300	3091.00000	0.8576	0.400	4000.00000	0.9353	1.00	10075.0000	0.9012
1,2-Dichloroethane	NA	NA	NA	0.400	3634.00000	0.3439	1.00	9523.00000	0.3466
1,3-Dichlorobenzene	NA	NA	NA	0.400	4191.00000	0.9799	1.00	11119.0000	0.9946
1,4-Dichlorobenzene	0.300	4089.00000	1.135	0.400	4893.00000	1.144	1.00	11757.0000	1.052
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	7108.00000	0.6726	1.00	18411.0000	0.6702
Bromodichloromethane	NA	NA	NA	0.400	2541.00000	0.2405	1.00	7121.00000	0.2592
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	1611.00000	0.05860
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	11751.0000	0.4277
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	5717.00000	0.2081
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	3438.00000	0.1251
Dibromochloromethane	NA	NA	NA	0.400	1320.00000	0.1717	1.00	3588.00000	0.1798
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	9325.00000	0.3394
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	6632.00000	0.2414
Styrene	NA	NA	NA	NA	NA	NA	1.00	11488.0000	0.5756
Tetrachloroethene	NA	NA	NA	NA	NA	NA	1.00	3763.00000	0.1885
Trichloroethene	NA	NA	NA	NA	NA	NA	1.00	3623.00000	0.1319
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	1546.00000	0.1463	1.00	4737.00000	0.1724
cis-1,3-Dichloropropene	NA	NA	NA	0.400	2062.00000	0.1951	1.00	6617.00000	0.2409
m-,p-Xylene	NA	NA	NA	0.800	5491.00000	0.3572	2.00	15909.0000	0.3985
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	6824.00000	0.3419
trans-1,2-Dichloroethene	NA	NA	NA	0.400	1317.00000	0.1246	1.00	3871.00000	0.1409

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	11704.0000	0.2057	5.00	39967.0000	0.2960	20.0	210973.000	0.3754
1,2-Dichloropropane	2.00	9770.00000	0.1717	5.00	26235.0000	0.1943	20.0	119890.000	0.2133
Chloroform	2.00	20663.0000	0.3632	5.00	57384.0000	0.4250	20.0	259831.000	0.4623
Ethylbenzene	2.00	11462.0000	0.2815	5.00	34219.0000	0.3489	20.0	166968.000	0.4040
Toluene	2.00	35511.0000	0.8721	5.00	98405.0000	1.003	20.0	460399.000	1.114
Vinyl Chloride	2.00	8770.00000	0.1542	5.00	24211.0000	0.1793	20.0	127011.000	0.2260
1,1,2,2-Tetrachloroethane	2.00	8347.00000	0.3633	5.00	22149.0000	0.3944	20.0	99609.0000	0.4112
1,1-Dichloroethane	2.00	19558.0000	0.3438	5.00	53741.0000	0.3980	20.0	252955.000	0.4501
Bromoform	2.00	3892.00000	0.09560	5.00	12605.0000	0.1285	20.0	60095.0000	0.1454
Chlorobenzene	2.00	27110.0000	0.6658	5.00	70575.0000	0.7195	20.0	310688.000	0.7518
Chloromethane	2.00	14056.0000	0.2471	5.00	37656.0000	0.2789	20.0	169543.000	0.3017
1,1,1-Trichloroethane	2.00	14284.0000	0.2511	5.00	46362.0000	0.3434	20.0	240250.000	0.4275
1,1,2-Trichloroethane	2.00	6995.00000	0.1718	5.00	18567.0000	0.1893	20.0	80316.0000	0.1944
1,2,4-Trichlorobenzene	2.00	13797.0000	0.6005	5.00	35236.0000	0.6275	20.0	170762.000	0.7049
1,2-Dichlorobenzene	2.00	20148.0000	0.8769	5.00	52836.0000	0.9409	20.0	241736.000	0.9978
1,2-Dichloroethane	2.00	18683.0000	0.3284	5.00	49174.0000	0.3642	20.0	208067.000	0.3702
1,3-Dichlorobenzene	2.00	21553.0000	0.9381	5.00	56922.0000	1.014	20.0	260893.000	1.077
1,4-Dichlorobenzene	2.00	24026.0000	1.046	5.00	60389.0000	1.076	20.0	272238.000	1.124
1,4-Dioxane	50.0	741.000000	0.0005000	100	2184.00000	0.0008000	150	4937.00000	0.001200
2-Butanone	NA	NA	NA	5.00	7202.00000	0.05330	20.0	35956.0000	0.06400
2-Hexanone	NA	NA	NA	5.00	9934.00000	0.1013	20.0	50209.0000	0.1215
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4590.00000	0.03400	20.0	26580.0000	0.04730
Acetone	NA	NA	NA	5.00	6422.00000	0.04760	20.0	25598.0000	0.04550
Acrylonitrile	2.00	1760.00000	0.03090	5.00	5216.00000	0.03860	20.0	27758.0000	0.04940
Benzene	2.00	37198.0000	0.6539	5.00	100756.000	0.7463	20.0	458791.000	0.8164
Bromodichloromethane	2.00	14941.0000	0.2627	5.00	40999.0000	0.3037	20.0	186160.000	0.3312
Bromomethane	2.00	3691.00000	0.06490	5.00	12078.0000	0.08950	20.0	73020.0000	0.1299
Carbon Disulfide	2.00	21241.0000	0.3734	5.00	58973.0000	0.4368	20.0	343762.000	0.6117
Carbon Tetrachloride	2.00	10739.0000	0.1888	5.00	36796.0000	0.2725	20.0	197031.000	0.3506
Chloroethane	2.00	6644.00000	0.1168	5.00	17819.0000	0.1320	20.0	96918.0000	0.1725
Dibromochloromethane	2.00	8595.00000	0.2111	5.00	22302.0000	0.2274	20.0	104110.000	0.2519
Methyl Tert Butyl Ether	2.00	21662.0000	0.3808	5.00	56087.0000	0.4154	20.0	273014.000	0.4858
Methylene Chloride	2.00	10938.0000	0.1923	5.00	24838.0000	0.1840	20.0	103270.000	0.1838
Styrene	2.00	26279.0000	0.6454	5.00	75081.0000	0.7654	20.0	366268.000	0.8863
Tetrachloroethene	2.00	6882.00000	0.1690	5.00	20377.0000	0.2077	20.0	103033.000	0.2493
Trichloroethene	2.00	6771.00000	0.1190	5.00	20644.0000	0.1529	20.0	103831.000	0.1848
Vinyl Acetate	NA	NA	NA	5.00	38959.0000	0.2886	20.0	185549.000	0.3302
cis-1,2-Dichloroethene	2.00	9369.00000	0.1647	5.00	25212.0000	0.1867	20.0	119836.000	0.2132
cis-1,3-Dichloropropene	2.00	14338.0000	0.2521	5.00	39961.0000	0.2960	20.0	192254.000	0.3421
m-,p-Xylene	4.00	30558.0000	0.3752	10.0	88429.0000	0.4508	40.0	422748.000	0.5115
o-Xylene	2.00	13599.0000	0.3340	5.00	41797.0000	0.4261	20.0	204836.000	0.4957
trans-1,2-Dichloroethene	2.00	7868.00000	0.1383	5.00	22410.0000	0.1660	20.0	111072.000	0.1976

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	562131.000	0.3769	100	1141885.00	0.3636	200	2436117.00	0.3805
1,2-Dichloropropane	50.0	322549.000	0.2163	100	704787.000	0.2244	200	1520359.00	0.2375
Chloroform	50.0	680375.000	0.4562	100	1393348.00	0.4437	200	2885625.00	0.4508
Ethylbenzene	50.0	445584.000	0.4038	100	969141.000	0.3965	200	2039560.00	0.3840
Toluene	50.0	1209595.00	1.096	100	2511236.00	1.027	200	5294261.00	0.9967
Vinyl Chloride	50.0	317455.000	0.2129	100	563286.000	0.1794	200	1071861.00	0.1674
1,1,2,2-Tetrachloroethane	50.0	272945.000	0.4203	100	615154.000	0.4430	200	1323514.00	0.4415
1,1-Dichloroethane	50.0	680789.000	0.4565	100	1406692.00	0.4479	200	2938297.00	0.4590
Bromoform	50.0	167457.000	0.1518	100	384923.000	0.1575	200	828892.000	0.1560
Chlorobenzene	50.0	822625.000	0.7455	100	1787747.00	0.7313	200	3759113.00	0.7077
Chloromethane	50.0	402302.000	0.2697	100	852946.000	0.2716	200	1973945.00	0.3083
1,1,1-Trichloroethane	50.0	650539.000	0.4362	100	1374210.00	0.4376	200	2782956.00	0.4347
1,1,2-Trichloroethane	50.0	214580.000	0.1945	100	474392.000	0.1941	200	1029927.00	0.1939
1,2,4-Trichlorobenzene	50.0	459816.000	0.7080	100	978864.000	0.7049	200	1997794.00	0.6664
1,2-Dichlorobenzene	50.0	644553.000	0.9924	100	1370231.00	0.9867	200	2814978.00	0.9389
1,2-Dichloroethane	50.0	539583.000	0.3618	100	1087561.00	0.3463	200	2177668.00	0.3402
1,3-Dichlorobenzene	50.0	698094.000	1.075	100	1482306.00	1.067	200	3086815.00	1.030
1,4-Dichlorobenzene	50.0	717858.000	1.105	100	1522735.00	1.097	200	3139083.00	1.047
1,4-Dioxane	200	7596.00000	0.001300	400	20165.0000	0.001600	NA	NA	NA
2-Butanone	50.0	99317.0000	0.06660	100	221029.000	0.07040	200	481146.000	0.07520
2-Hexanone	50.0	148924.000	0.1350	100	342021.000	0.1399	200	741638.000	0.1396
4-Methyl-2-Pentanone	50.0	74987.0000	0.05030	100	180280.000	0.05740	200	404576.000	0.06320
Acetone	50.0	70387.0000	0.04720	100	143288.000	0.04560	200	331088.000	0.05170
Acrylonitrile	50.0	78345.0000	0.05250	100	172536.000	0.05490	200	395960.000	0.06190
Benzene	50.0	1225188.00	0.8215	100	2621867.00	0.8349	200	5190201.00	0.8107
Bromodichloromethane	50.0	500728.000	0.3357	100	1070111.00	0.3408	200	2256520.00	0.3525
Bromomethane	50.0	223555.000	0.1499	100	499768.000	0.1591	200	1057992.00	0.1653
Carbon Disulfide	50.0	915546.000	0.6139	100	1888566.00	0.6014	200	4114624.00	0.6427
Carbon Tetrachloride	50.0	519252.000	0.3482	100	1082844.00	0.3448	200	2197062.00	0.3432
Chloroethane	50.0	279241.000	0.1872	100	623362.000	0.1985	200	1270360.00	0.1984
Dibromochloromethane	50.0	287162.000	0.2602	100	643565.000	0.2633	200	1373056.00	0.2585
Methyl Tert Butyl Ether	50.0	749527.000	0.5026	100	1578651.00	0.5027	200	3287582.00	0.5135
Methylene Chloride	50.0	276619.000	0.1855	100	630171.000	0.2007	200	1432491.00	0.2238
Styrene	50.0	1004569.00	0.9104	100	2200845.00	0.9003	200	4676870.00	0.8805
Tetrachloroethene	50.0	273731.000	0.2481	100	569707.000	0.2331	200	1199421.00	0.2258
Trichloroethene	50.0	278920.000	0.1870	100	612889.000	0.1952	200	1264126.00	0.1975
Vinyl Acetate	50.0	492502.000	0.3302	100	1057529.00	0.3368	200	2173766.00	0.3396
cis-1,2-Dichloroethene	50.0	319303.000	0.2141	100	662548.000	0.2110	200	1384922.00	0.2163
cis-1,3-Dichloropropene	50.0	528341.000	0.3543	100	1143283.00	0.3641	200	2442187.00	0.3815
m-,p-Xylene	100	1129083.00	0.5116	200	2425557.00	0.4961	400	4958617.00	0.4668
o-Xylene	50.0	552223.000	0.5004	100	1203757.00	0.4924	200	2553083.00	0.4806
trans-1,2-Dichloroethene	50.0	297999.000	0.1998	100	617709.000	0.1967	200	1269936.00	0.1984

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	600	27801.0000	0.001400
2-Butanone	300	672287.000	0.06570
2-Hexanone	300	1020911.00	0.1373
4-Methyl-2-Pentanone	NA	NA	NA
Acetone	300	425575.000	0.04160
Acrylonitrile	NA	NA	NA
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	300	3273009.00	0.3197
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

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INITIAL CALIBRATION DATA

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Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	6737.00000	0.3375

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	14567.0000	0.3577	5.00	40654.0000	0.4145	20.0	193074.000	0.4672

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INITIAL CALIBRATION DATA

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Analytical Method: 8260B
Instrument ID: HPMS6
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Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	518589.000	0.4700	100	1123613.00	0.4597	200	2400145.00	0.4519

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	1.00	6393.00000	0.4071	2.00	13566.0000	0.4272
1,2-Dichloropropane	NA	NA	NA	1.00	3254.00000	0.2072	2.00	8013.00000	0.2523
Chloroform	NA	NA	NA	1.00	7976.00000	0.5079	2.00	15792.0000	0.4973
Ethylbenzene	NA	NA	NA	1.00	4761.00000	0.5005	2.00	9446.00000	0.4974
Toluene	NA	NA	NA	1.00	12626.0000	1.327	2.00	30014.0000	1.580
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	6925.00000	0.2181
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	3345.00000	0.7776	2.00	6577.00000	0.7594
1,1-Dichloroethane	NA	NA	NA	1.00	8631.00000	0.5496	2.00	16963.0000	0.5342
Bromoform	NA	NA	NA	NA	NA	NA	2.00	2429.00000	0.1279
Chlorobenzene	NA	NA	NA	1.00	9933.00000	1.044	2.00	19044.0000	1.003
Chloromethane	NA	NA	NA	1.00	6439.00000	0.4100	2.00	10808.0000	0.3403
1,1,1-Trichloroethane	NA	NA	NA	1.00	6199.00000	0.3948	2.00	13170.0000	0.4147
1,1,2-Trichloroethane	NA	NA	NA	1.00	2516.00000	0.2645	2.00	5653.00000	0.2977
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	2950.00000	0.6858	2.00	6557.00000	0.7571
1,2-Dichlorobenzene	NA	NA	NA	1.00	5430.00000	1.262	2.00	10544.0000	1.217
1,2-Dichloroethane	NA	NA	NA	1.00	6043.00000	0.3848	2.00	13057.0000	0.4112
1,3-Dichlorobenzene	NA	NA	NA	1.00	6160.00000	1.432	2.00	11894.0000	1.373
1,4-Dichlorobenzene	NA	NA	NA	1.00	7367.00000	1.713	2.00	13568.0000	1.567
1,4-Dioxane	NA	NA	NA	NA	NA	NA	50.0	960.000000	0.001200
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	2.00	4290.00000	0.2259
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	2.00	2075.00000	0.06530
Benzene	NA	NA	NA	1.00	15706.0000	1.000	2.00	34249.0000	1.079
Bromodichloromethane	NA	NA	NA	1.00	4703.00000	0.2995	2.00	9583.00000	0.3018
Bromomethane	NA	NA	NA	1.00	1597.00000	0.1017	2.00	3401.00000	0.1071
Carbon Disulfide	NA	NA	NA	1.00	15811.0000	1.007	2.00	29433.0000	0.9268
Carbon Tetrachloride	NA	NA	NA	1.00	3662.00000	0.2332	2.00	9059.00000	0.2853
Chloroethane	NA	NA	NA	1.00	2807.00000	0.1787	2.00	5257.00000	0.1655
Dibromochloromethane	NA	NA	NA	NA	NA	NA	2.00	4240.00000	0.2233
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	17468.0000	0.5501
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	10422.0000	0.3282
Styrene	NA	NA	NA	NA	NA	NA	2.00	13650.0000	0.7188
Tetrachloroethene	NA	NA	NA	1.00	2776.00000	0.2918	2.00	5518.00000	0.2906
Trichloroethene	NA	NA	NA	1.00	3175.00000	0.2022	2.00	6691.00000	0.2107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	14317.0000	0.4508
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3619.00000	0.2305	2.00	7779.00000	0.2450
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	2.00	9719.00000	0.3060
m-,p-Xylene	1.00	5660.00000	0.5719	2.00	11146.0000	0.5858	4.00	23579.0000	0.6208
o-Xylene	NA	NA	NA	1.00	3824.00000	0.4020	2.00	9538.00000	0.5022
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3365.00000	0.2143	2.00	7448.00000	0.2345

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	36896.0000	0.4476	20.0	156692.000	0.4683	50.0	412211.000	0.5025
1,2-Dichloropropane	5.00	21008.0000	0.2549	20.0	86489.0000	0.2585	50.0	235779.000	0.2874
Chloroform	5.00	42879.0000	0.5202	20.0	169069.000	0.5053	50.0	446055.000	0.5438
Ethylbenzene	5.00	26651.0000	0.5399	20.0	115596.000	0.5708	50.0	311046.000	0.6262
Toluene	5.00	83438.0000	1.690	20.0	356327.000	1.759	50.0	951503.000	1.916
Vinyl Chloride	5.00	16451.0000	0.1996	20.0	61278.0000	0.1832	50.0	155260.000	0.1893
1,1,2,2-Tetrachloroethane	5.00	18301.0000	0.7999	20.0	69709.0000	0.7375	50.0	197663.000	0.8470
1,1-Dichloroethane	5.00	46079.0000	0.5590	20.0	183109.000	0.5473	50.0	477051.000	0.5815
Bromoform	5.00	7264.00000	0.1471	20.0	30815.0000	0.1522	50.0	92350.0000	0.1859
Chlorobenzene	5.00	50596.0000	1.025	20.0	200813.000	0.9915	50.0	537818.000	1.083
Chloromethane	5.00	25485.0000	0.3092	20.0	97925.0000	0.2927	50.0	238892.000	0.2912
1,1,1-Trichloroethane	5.00	36085.0000	0.4378	20.0	148594.000	0.4441	50.0	388224.000	0.4733
1,1,2-Trichloroethane	5.00	14699.0000	0.2978	20.0	57520.0000	0.2840	50.0	160693.000	0.3235
1,2,4-Trichlorobenzene	5.00	17715.0000	0.7743	20.0	77361.0000	0.8185	50.0	225695.000	0.9672
1,2-Dichlorobenzene	5.00	29594.0000	1.293	20.0	117796.000	1.246	50.0	320823.000	1.375
1,2-Dichloroethane	5.00	35252.0000	0.4277	20.0	136303.000	0.4074	50.0	366257.000	0.4465
1,3-Dichlorobenzene	5.00	33534.0000	1.466	20.0	134724.000	1.425	50.0	361829.000	1.551
1,4-Dichlorobenzene	5.00	34966.0000	1.528	20.0	136799.000	1.447	50.0	364265.000	1.561
1,4-Dioxane	100	2487.00000	0.001500	150	3412.00000	0.001400	200	6625.00000	0.002000
2-Butanone	5.00	9520.00000	0.1155	20.0	30969.0000	0.09260	50.0	90902.0000	0.1108
2-Hexanone	5.00	8633.00000	0.1749	20.0	40072.0000	0.1979	50.0	127211.000	0.2561
4-Methyl-2-Pentanone	5.00	5157.00000	0.06260	20.0	23191.0000	0.06930	50.0	69458.0000	0.08470
Acetone	5.00	10220.0000	0.1240	20.0	23803.0000	0.07110	50.0	64842.0000	0.07900
Acrylonitrile	5.00	4904.00000	0.05950	20.0	22897.0000	0.06840	50.0	69006.0000	0.08410
Benzene	5.00	90941.0000	1.103	20.0	363548.000	1.087	50.0	951282.000	1.160
Bromodichloromethane	5.00	26456.0000	0.3210	20.0	112426.000	0.3360	50.0	309859.000	0.3777
Bromomethane	5.00	7993.00000	0.09700	20.0	34963.0000	0.1045	50.0	95227.0000	0.1161
Carbon Disulfide	5.00	71112.0000	0.8627	20.0	302228.000	0.9033	50.0	780732.000	0.9517
Carbon Tetrachloride	5.00	24711.0000	0.2998	20.0	109746.000	0.3280	50.0	291285.000	0.3551
Chloroethane	5.00	15115.0000	0.1834	20.0	56124.0000	0.1677	50.0	146967.000	0.1792
Dibromochloromethane	5.00	12361.0000	0.2504	20.0	55464.0000	0.2739	50.0	161009.000	0.3241
Methyl Tert Butyl Ether	5.00	47996.0000	0.5823	20.0	209936.000	0.6275	50.0	617880.000	0.7532
Methylene Chloride	5.00	24991.0000	0.3032	20.0	83872.0000	0.2507	50.0	218794.000	0.2667
Styrene	5.00	45367.0000	0.9190	20.0	205246.000	1.013	50.0	579871.000	1.167
Tetrachloroethene	5.00	15175.0000	0.3074	20.0	65599.0000	0.3239	50.0	170532.000	0.3433
Trichloroethene	5.00	17908.0000	0.2173	20.0	74427.0000	0.2225	50.0	198950.000	0.2425
Vinyl Acetate	5.00	34394.0000	0.4173	20.0	144304.000	0.4313	50.0	450260.000	0.5489
cis-1,2-Dichloroethene	5.00	21509.0000	0.2609	20.0	86093.0000	0.2573	50.0	229982.000	0.2804
cis-1,3-Dichloropropene	5.00	29275.0000	0.3551	20.0	130047.000	0.3887	50.0	372613.000	0.4542
m-,p-Xylene	10.0	66804.0000	0.6766	40.0	279515.000	0.6901	100	749507.000	0.7545
o-Xylene	5.00	27361.0000	0.5543	20.0	125671.000	0.6205	50.0	352077.000	0.7088
trans-1,2-Dichloroethene	5.00	21611.0000	0.2622	20.0	88416.0000	0.2643	50.0	229210.000	0.2794

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	832531.000	0.4962	200	1504017.00	0.4625	NA	NA	NA
1,2-Dichloropropane	100	480649.000	0.2864	200	905931.000	0.2786	NA	NA	NA
Chloroform	100	903271.000	0.5383	200	1627555.00	0.5005	NA	NA	NA
Ethylbenzene	100	601327.000	0.6124	200	1121306.00	0.5909	NA	NA	NA
Toluene	100	1886524.00	1.921	200	3557692.00	1.875	NA	NA	NA
Vinyl Chloride	100	286506.000	0.1707	200	500174.000	0.1538	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	355195.000	0.7746	200	705193.000	0.7848	NA	NA	NA
1,1-Dichloroethane	100	977894.000	0.5828	200	1731421.00	0.5324	NA	NA	NA
Bromoform	100	169772.000	0.1729	200	333140.000	0.1756	NA	NA	NA
Chlorobenzene	100	1024707.00	1.044	200	1885988.00	0.9939	NA	NA	NA
Chloromethane	100	459282.000	0.2737	200	959711.000	0.2951	NA	NA	NA
1,1,1-Trichloroethane	100	790925.000	0.4714	200	1405524.00	0.4322	NA	NA	NA
1,1,2-Trichloroethane	100	302413.000	0.3080	200	555741.000	0.2929	NA	NA	NA
1,2,4-Trichlorobenzene	100	437389.000	0.9538	200	815612.000	0.9077	NA	NA	NA
1,2-Dichlorobenzene	100	614087.000	1.339	200	1152410.00	1.283	NA	NA	NA
1,2-Dichloroethane	100	723954.000	0.4314	200	1289849.00	0.3966	NA	NA	NA
1,3-Dichlorobenzene	100	683969.000	1.492	200	1278695.00	1.423	NA	NA	NA
1,4-Dichlorobenzene	100	687968.000	1.500	200	1268732.00	1.412	NA	NA	NA
1,4-Dioxane	400	13644.0000	0.002000	NA	NA	NA	600	20425.0000	0.002000
2-Butanone	100	170016.000	0.1013	200	320464.000	0.09850	300	575724.000	0.1134
2-Hexanone	100	232440.000	0.2367	200	475176.000	0.2504	300	762913.000	0.2640
4-Methyl-2-Pentanone	100	129991.000	0.07750	200	261419.000	0.08040	300	431135.000	0.08490
Acetone	100	119224.000	0.07110	200	222409.000	0.06840	NA	NA	NA
Acrylonitrile	100	138058.000	0.08230	200	261513.000	0.08040	300	407809.000	0.08040
Benzene	100	1908422.00	1.137	200	3443505.00	1.059	NA	NA	NA
Bromodichloromethane	100	618856.000	0.3688	200	1160199.00	0.3568	NA	NA	NA
Bromomethane	100	195989.000	0.1168	200	397037.000	0.1221	NA	NA	NA
Carbon Disulfide	100	1535985.00	0.9154	200	2765655.00	0.8504	NA	NA	NA
Carbon Tetrachloride	100	587410.000	0.3501	200	1063328.00	0.3270	NA	NA	NA
Chloroethane	100	299319.000	0.1784	200	585303.000	0.1800	NA	NA	NA
Dibromochloromethane	100	310238.000	0.3159	200	584740.000	0.3081	NA	NA	NA
Methyl Tert Butyl Ether	100	1236750.00	0.7370	200	2168088.00	0.6667	NA	NA	NA
Methylene Chloride	100	425995.000	0.2539	200	786904.000	0.2420	NA	NA	NA
Styrene	100	1129465.00	1.150	200	2126229.00	1.121	NA	NA	NA
Tetrachloroethene	100	331921.000	0.3380	200	623274.000	0.3285	NA	NA	NA
Trichloroethene	100	400818.000	0.2389	200	727344.000	0.2237	NA	NA	NA
Vinyl Acetate	100	891726.000	0.5314	200	1575238.00	0.4844	300	2710030.00	0.5340
cis-1,2-Dichloroethene	100	470924.000	0.2807	200	839787.000	0.2582	NA	NA	NA
cis-1,3-Dichloropropene	100	753697.000	0.4492	200	1426324.00	0.4386	NA	NA	NA
m-,p-Xylene	200	1453870.00	0.7403	400	2662835.00	0.7016	NA	NA	NA
o-Xylene	100	686142.000	0.6988	200	1305696.00	0.6881	NA	NA	NA
trans-1,2-Dichloroethene	100	469986.000	0.2801	200	839949.000	0.2583	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	4563.00000	0.4797	2.00	10288.0000	0.5417

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	27404.0000	0.5551	20.0	123023.000	0.6074	50.0	356535.000	0.7178

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	677983.000	0.6905	200	1251013.00	0.6593	NA	NA	NA

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050189 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	20.4	ug/L	0.365	1.90	25	
1,2-Dichloropropane	CCC	20.0	21.5	ug/L	0.221	7.30	25	
Chloroform	CCC	20.0	21.8	ug/L	0.462	8.90	25	
Ethylbenzene	CCC	20.0	23.5	ug/L	0.416	17.3	25	
Toluene	CCC	20.0	22.5	ug/L	1.11	12.5	25	
Vinyl Chloride	CCC	20.0	24.1	ug/L	0.223	20.6	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.7	ug/L	0.409	3.70	25	
1,1-Dichloroethane	SPCC	20.0	22.1	ug/L	0.460	10.3	25	
Bromoform	SPCC	20.0	18.9	ug/L	0.141	5.60	25	
Chlorobenzene	SPCC	20.0	21.5	ug/L	0.767	7.70	25	
Chloromethane	SPCC	20.0	21.5	ug/L	0.302	7.70	25	
1,1,1-Trichloroethane		20.0	20.2	ug/L	0.431	1.20	25	
1,1,2-Trichloroethane		20.0	20.9	ug/L	0.195	4.60	25	
1,2,4-Trichlorobenzene		20.0	22.5	ug/L	0.739	12.3	25	
1,2-Dichlorobenzene		20.0	22.0	ug/L	1.03	10.1	25	
1,2-Dichloroethane		20.0	20.6	ug/L	0.360	2.80	25	
1,3-Dichlorobenzene		20.0	21.7	ug/L	1.11	8.60	25	
1,4-Dichlorobenzene		20.0	20.8	ug/L	1.14	4.10	25	
1,4-Dioxane		200	177	ug/L	0.00160	11.6	25	
2-Butanone		20.0	21.0	ug/L	0.0692	5.00	25	
2-Hexanone		20.0	18.7	ug/L	0.120	6.70	25	
4-Methyl-2-Pentanone		20.0	21.7	ug/L	0.0485	8.50	25	
Acetone		20.0	21.2	ug/L	0.0492	5.80	25	
Acrylonitrile		20.0	20.9	ug/L	0.0511	4.50	25	
Benzene		20.0	22.2	ug/L	0.835	10.9	25	
Bromodichloromethane		20.0	22.6	ug/L	0.343	13.1	25	
Bromomethane		20.0	18.3	ug/L	0.128	8.70	25	
Carbon Disulfide		20.0	19.0	ug/L	0.550	5.10	25	
Carbon Tetrachloride		20.0	20.8	ug/L	0.352	3.80	25	
Dibromochloromethane		20.0	19.5	ug/L	0.251	2.40	25	
Chloroethane		20.0	19.9	ug/L	0.182	0.600	25	
cis-1,2-Dichloroethene		20.0	23.4	ug/L	0.223	16.8	25	
cis-1,3-Dichloropropene		20.0	20.1	ug/L	0.346	0.600	25	
Methylene Chloride		20.0	19.0	ug/L	0.192	4.90	25	
Methyl Tert Butyl Ether		20.0	20.5	ug/L	0.501	2.60	25	
Styrene		20.0	20.3	ug/L	0.909	1.40	25	
Tetrachloroethene		20.0	23.2	ug/L	0.252	15.9	25	
trans-1,2-Dichloroethene		20.0	20.5	ug/L	0.200	2.40	25	
trans-1,3-Dichloropropene		20.0	18.9	ug/L	0.400	5.40	25	
Trichloroethene		20.0	21.4	ug/L	0.199	7.10	25	
Vinyl Acetate		20.0	10.5	ug/L	0.170	47.6	25	*
Xylenes		60.0	67.8	ug/L	0.517	12.9	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050189 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	20.6	ug/L	0.508	2.80	25	
m-,p-Xylene		40.0	47.2	ug/L	0.526	18.0	25	
1,2-Dichloroethene		40.0	43.8	ug/L	0.211	9.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050189 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/kg	0.447	2.50	25	
1,2-Dichloropropane	CCC	20.0	21.4	ug/kg	0.279	6.90	25	
Chloroform	CCC	20.0	20.6	ug/kg	0.532	3.00	25	
Ethylbenzene	CCC	20.0	22.1	ug/kg	0.623	10.7	25	
Toluene	CCC	20.0	21.9	ug/kg	1.89	9.70	25	
Vinyl Chloride	CCC	20.0	19.4	ug/kg	0.180	3.10	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/kg	0.871	11.2	25	
1,1-Dichloroethane	SPCC	20.0	20.2	ug/kg	0.562	1.20	25	
Bromoform	SPCC	20.0	21.3	ug/kg	0.171	6.40	25	
Chlorobenzene	SPCC	20.0	21.1	ug/kg	1.08	5.70	25	
Chloromethane	SPCC	20.0	16.8	ug/kg	0.265	16.1	25	
1,1,1-Trichloroethane		20.0	20.5	ug/kg	0.449	2.30	25	
1,1,2-Trichloroethane		20.0	22.3	ug/kg	0.329	11.3	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.897	7.10	25	
1,2-Dichlorobenzene		20.0	21.7	ug/kg	1.40	8.60	25	
1,2-Dichloroethane		20.0	20.4	ug/kg	0.423	2.00	25	
1,3-Dichlorobenzene		20.0	21.4	ug/kg	1.55	7.10	25	
1,4-Dichlorobenzene		20.0	20.0	ug/kg	1.54	0.200	25	
1,4-Dioxane		150	216	ug/kg	0.00270	43.9	25	*
2-Butanone		20.0	23.4	ug/kg	0.124	17.2	25	
2-Hexanone		20.0	20.4	ug/kg	0.234	1.90	25	
4-Methyl-2-Pentanone		20.0	19.9	ug/kg	0.0763	0.400	25	
Acetone		20.0	22.2	ug/kg	0.0905	11.2	25	
Acrylonitrile		20.0	22.4	ug/kg	0.0834	12.1	25	
Benzene		20.0	20.8	ug/kg	1.13	4.10	25	
Bromodichloromethane		20.0	21.9	ug/kg	0.369	9.50	25	
Bromomethane		20.0	19.3	ug/kg	0.105	3.60	25	
Carbon Disulfide		20.0	17.0	ug/kg	0.781	14.8	25	
Carbon Tetrachloride		20.0	20.5	ug/kg	0.319	2.50	25	
Dibromochloromethane		20.0	21.7	ug/kg	0.307	8.60	25	
Chloroethane		20.0	19.0	ug/kg	0.168	4.80	25	
cis-1,2-Dichloroethene		20.0	21.2	ug/kg	0.275	6.20	25	
cis-1,3-Dichloropropene		20.0	20.8	ug/kg	0.414	3.80	25	
Methylene Chloride		20.0	19.2	ug/kg	0.263	4.10	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/kg	0.692	6.00	25	
Styrene		20.0	20.0	ug/kg	1.11	0.200	25	
Tetrachloroethene		20.0	20.5	ug/kg	0.326	2.60	25	
trans-1,2-Dichloroethene		20.0	20.2	ug/kg	0.259	1.00	25	
trans-1,3-Dichloropropene		20.0	20.2	ug/kg	0.613	1.00	25	
Trichloroethene		20.0	20.8	ug/kg	0.231	4.00	25	
Vinyl Acetate		20.0	10.3	ug/kg	0.249	48.7	25	*
Xylenes		60.0	65.5	ug/kg	0.723	9.20	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050189 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	41.4	ug/kg	0.267	3.60	25	
o-Xylene		20.0	20.5	ug/kg	0.694	2.60	25	
m-,p-Xylene		40.0	45.0	ug/kg	0.751	12.5	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/14/2008 Sample ID: WG271171-02
Instrument ID: HPMS6 Run Time: 08:14 Method: 8260B
File ID: 6M75092 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG271172 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	47.8	ug/L	0.347	4.40	20	
1,2-Dichloropropane	CCC	50.0	49.5	ug/L	0.204	0.960	20	
Chloroform	CCC	50.0	50.2	ug/L	0.426	0.418	20	
Ethylbenzene	CCC	50.0	55.0	ug/L	0.390	10.1	20	
Toluene	CCC	50.0	55.4	ug/L	1.09	10.7	20	
Vinyl Chloride	CCC	50.0	46.0	ug/L	0.170	8.07	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.6	ug/L	0.383	2.76	20	
1,1-Dichloroethane	SPCC	50.0	51.3	ug/L	0.428	2.63	20	
Bromoform	SPCC	50.0	45.9	ug/L	0.141	8.27	20	
Chlorobenzene	SPCC	50.0	49.9	ug/L	0.711	0.152	20	
Chloromethane	SPCC	50.0	43.4	ug/L	0.243	13.1	20	
1,1,1-Trichloroethane		50.0	47.1	ug/L	0.407	5.87	20	
1,1,2-Trichloroethane		50.0	48.8	ug/L	0.182	2.37	20	
1,2,4-Trichlorobenzene		50.0	53.8	ug/L	0.708	7.58	20	
1,2-Dichlorobenzene		50.0	51.0	ug/L	0.955	1.99	20	
1,2-Dichloroethane		50.0	46.2	ug/L	0.324	7.63	20	
1,3-Dichlorobenzene		50.0	52.0	ug/L	1.06	4.05	20	
1,4-Dichlorobenzene		50.0	50.0	ug/L	1.09	0.0624	20	
1,4-Dioxane		200	205	ug/L	0.00150	2.65	20	
2-Butanone		50.0	44.3	ug/L	0.0583	11.4	20	
2-Hexanone		50.0	45.0	ug/L	0.116	9.93	20	
4-Methyl-2-Pentanone		50.0	41.9	ug/L	0.0454	16.2	20	
Acetone		50.0	50.3	ug/L	0.0468	0.535	20	
Acrylonitrile		50.0	50.1	ug/L	0.0519	0.241	20	
Benzene		50.0	51.5	ug/L	0.775	2.93	20	
Bromodichloromethane		50.0	51.6	ug/L	0.313	3.18	20	
Bromomethane		50.0	51.1	ug/L	0.155	2.20	20	
Carbon Disulfide		50.0	51.2	ug/L	0.609	2.48	20	
Carbon Tetrachloride		50.0	47.4	ug/L	0.324	5.28	20	
Dibromochloromethane		50.0	46.8	ug/L	0.242	6.37	20	
Chloroethane		50.0	42.1	ug/L	0.161	15.9	20	
cis-1,2-Dichloroethene		50.0	55.2	ug/L	0.211	10.5	20	
cis-1,3-Dichloropropene		50.0	46.7	ug/L	0.330	6.58	20	
Methylene Chloride		50.0	44.6	ug/L	0.180	10.7	20	
Methyl Tert Butyl Ether		50.0	50.5	ug/L	0.503	0.987	20	
Styrene		50.0	46.9	ug/L	0.850	6.30	20	
Tetrachloroethene		50.0	56.6	ug/L	0.246	13.1	20	
trans-1,2-Dichloroethene		50.0	49.7	ug/L	0.196	0.558	20	
trans-1,3-Dichloropropene		50.0	50.1	ug/L	0.424	0.257	20	
Trichloroethene		50.0	47.3	ug/L	0.180	5.41	20	
Vinyl Acetate		50.0	46.8	ug/L	0.304	6.32	20	
Xylenes		150	159	ug/L	0.486	5.96	20	

CCV - Modified 03/05/2008
PDF File ID: 1096866
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/14/2008 Sample ID: WG271171-02
Instrument ID: HPMS6 Run Time: 08:14 Method: 8260B
File ID: 6M75092 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG271172 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	105	ug/L	0.203	4.96	20	
m-,p-Xylene		100	111	ug/L	0.495	11.0	20	
o-Xylene		50.0	48.0	ug/L	0.478	4.05	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1096866
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/19/2008 Sample ID: WG271621-02
Instrument ID: HPMS9 Run Time: 10:13 Method: 8260B
File ID: 9M61961 Analyst: FJB QC Key: DOWWV2006
Workgroup (AAB#): WG271622 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	46.7	ug/kg	0.428	6.68	20	
1,2-Dichloropropane	CCC	50.0	49.3	ug/kg	0.257	1.44	20	
Chloroform	CCC	50.0	46.0	ug/kg	0.475	7.94	20	
Ethylbenzene	CCC	50.0	53.8	ug/kg	0.606	7.63	20	
Toluene	CCC	50.0	52.1	ug/kg	1.80	4.24	20	
Vinyl Chloride	CCC	50.0	52.4	ug/kg	0.195	4.88	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	51.1	ug/kg	0.800	2.16	20	
1,1-Dichloroethane	SPCC	50.0	43.1	ug/kg	0.479	13.8	20	
Bromoform	SPCC	50.0	61.8	ug/kg	0.198	23.7	20	*
Chlorobenzene	SPCC	50.0	50.8	ug/kg	1.04	1.56	20	
Chloromethane	SPCC	50.0	43.5	ug/kg	0.275	13.0	20	
1,1,1-Trichloroethane		50.0	48.5	ug/kg	0.425	2.97	20	
1,1,2-Trichloroethane		50.0	52.5	ug/kg	0.311	5.09	20	
1,2,4-Trichlorobenzene		50.0	56.4	ug/kg	0.945	12.7	20	
1,2-Dichlorobenzene		50.0	51.9	ug/kg	1.34	3.76	20	
1,2-Dichloroethane		50.0	44.3	ug/kg	0.368	11.5	20	
1,3-Dichlorobenzene		50.0	51.6	ug/kg	1.50	3.14	20	
1,4-Dichlorobenzene		50.0	49.1	ug/kg	1.51	1.74	20	
1,4-Dioxane		200	244	ug/kg	0.00230	21.9	20	*
2-Butanone		50.0	51.4	ug/kg	0.108	2.79	20	
2-Hexanone		50.0	54.4	ug/kg	0.250	8.86	20	
4-Methyl-2-Pentanone		50.0	64.2	ug/kg	0.0983	28.5	20	*
Acetone		50.0	51.9	ug/kg	0.0761	3.81	20	
Acrylonitrile		50.0	53.0	ug/kg	0.0788	5.93	20	
Benzene		50.0	51.2	ug/kg	1.11	2.34	20	
Bromodichloromethane		50.0	51.8	ug/kg	0.349	3.57	20	
Bromomethane		50.0	60.2	ug/kg	0.132	20.5	20	*
Carbon Disulfide		50.0	47.5	ug/kg	0.870	5.09	20	
Carbon Tetrachloride		50.0	50.9	ug/kg	0.317	1.74	20	
Dibromochloromethane		50.0	57.6	ug/kg	0.325	15.1	20	
Chloroethane		50.0	52.1	ug/kg	0.183	4.11	20	
cis-1,2-Dichloroethene		50.0	50.6	ug/kg	0.262	1.22	20	
cis-1,3-Dichloropropene		50.0	54.1	ug/kg	0.431	8.14	20	
Methylene Chloride		50.0	46.1	ug/kg	0.253	7.89	20	
Methyl Tert Butyl Ether		50.0	51.5	ug/kg	0.673	3.08	20	
Styrene		50.0	51.1	ug/kg	1.15	2.17	20	
Tetrachloroethene		50.0	52.7	ug/kg	0.335	5.43	20	
trans-1,2-Dichloroethene		50.0	49.2	ug/kg	0.252	1.60	20	
trans-1,3-Dichloropropene		50.0	52.0	ug/kg	0.632	4.07	20	
Trichloroethene		50.0	55.3	ug/kg	0.246	10.6	20	
Vinyl Acetate		50.0	30.3	ug/kg	0.295	39.3	20	*
Xylenes		150	158	ug/kg	0.704	5.54	20	

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/19/2008 Sample ID: WG271621-02

Instrument ID: HPMS9 Run Time: 10:13 Method: 8260B

File ID: 9M61961 Analyst: FJB QC Key: DOWWV2006

Workgroup (AAB#): WG271622 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	99.8	ug/kg	0.257	0.190	20	
m-,p-Xylene		100	109	ug/kg	0.725	8.56	20	
o-Xylene		50.0	49.7	ug/kg	0.683	0.504	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1096866
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189
Instrument ID: HPMS6
Workgroup (AAB#): WG271172

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	324738	551732	745710
Upper Limit	NA	NA	649476	1103464	1491420
Lower Limit	NA	NA	162369	275866	372855
L08050189-07	1.00	01	230849	419293	587269
WG271172-01	1.00	01	240530	432154	611422
WG271172-02	1.00	01	270279	470057	644324
WG271172-03	1.00	01	278321	478125	664786

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1099208
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189
Instrument ID: HPMS9
Workgroup (AAB#): WG271622

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050189-01	1.00	01	219476	476612	751848
L08050189-02	1.00	01	245819	514886	793372
L08050189-03	1.00	01	253809	529598	794830
L08050189-04	1.00	01	156341	406043	696974
L08050189-05	1.00	01	225636	475908	757761
L08050189-06	1.00	01	154739	397582	682363
WG271622-01	1.00	01	222697	473354	751954
WG271622-02	1.00	01	222410	470190	743136

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1099208
Report generated 05/21/2008 12:11

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189

Instrument ID: HPMS6

Workgroup (AAB#): WG271172

ICAL CCV Number: WG268581-08

CAL ID: HPMS6-17-APR-08

Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08050189-07	1.00	01	18.86	15.3	10.83
WG271172-01	1.00	01	18.86	15.3	10.83
WG271172-02	1.00	01	18.86	15.3	10.83
WG271172-03	1.00	01	18.86	15.3	10.83

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1099210

Report generated: 05/21/2008 12:11

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189

Instrument ID: HPMS9

Workgroup (AAB#): WG271622

ICAL CCV Number: WG270933-08

CAL ID: HPMS9-12-MAY-08

Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050189-01	1.00	01	15.2	12.23	8.39
L08050189-02	1.00	01	15.21	12.23	8.38
L08050189-03	1.00	01	15.21	12.23	8.39
L08050189-04	1.00	01	15.2	12.23	8.39
L08050189-05	1.00	01	15.21	12.23	8.39
L08050189-06	1.00	01	15.21	12.23	8.38
WG271622-01	1.00	01	15.21	12.23	8.4
WG271622-02	1.00	01	15.21	12.23	8.39

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1099210

Report generated: 05/21/2008 12:11

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS SEMIVOLATILE ORGANICS

Microbac Login No: L08050189

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard yielded a %D for 2,4-dinitrophenol that was beyond the acceptance limit (biased high). All other acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS associated with WG271231 yielded recoveries for 2-chloronaphthalene and n-nitrosodiphenylamine that were below the lower acceptance limits. The LCS DUP associated with WG271231 yielded a recovery for n-nitrosodiphenylamine that was below the lower acceptance limit. All other acceptance criteria were met.

Matrix Spikes: Sample 02MS yielded recoveries below the lower acceptance limits for 10 compounds and a recovery above the upper acceptance limit for di-n-octyl phthalate. Sample 03MSD yielded recoveries below the lower acceptance limits for 16 compounds. The MS/MSD yielded a %RPD for hexachlorocyclopentadiene that was beyond the acceptance limit.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample 01 yielded no recovery for 2,4,6-tribromophenol. The sample was re-extracted and yielded an acceptable recovery for 2,4,6-tribromophenol but a low recovery for 2-fluorophenol. All other acceptance criteria were met.

Samples: Samples 01-03 were analyzed at dilutions due to the appearance of the extracts,

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: MES

Approved: 23-MAY-08

LABORATORY REPORT

L08050189

05/27/08 12:42

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	QC Type	Lab ID	Method	Dilution	Date Received
0143-SO01-050808		L08050189-01	8270C	5	09-MAY-08
0143-SO01-050808		L08050189-01	8270C	5	09-MAY-08
0143-SO01-050808	MS	L08050189-02	8270C	5	09-MAY-08
0143-SO01-050808	MSD	L08050189-03	8270C	5	09-MAY-08
0142-SO01-050808		L08050189-04	8270C	1	09-MAY-08
0144-SO01-050808		L08050189-05	8270C	1	09-MAY-08
0140-SO01-050808		L08050189-06	8270C	1	09-MAY-08

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-01**
Client ID: **0143-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271196**
Collect Date: **05/08/2008 10:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/12/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/13/2008 21:44**
File ID: **12M21722**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	958	479
2,4,6-Trichlorophenol	88-06-2		U	958	479
2,4-Dichlorophenol	120-83-2		U	958	479
2,4-Dimethylphenol	105-67-9		U	958	479
2,4-Dinitrophenol	51-28-5		U	4790	2390
2,4-Dinitrotoluene	121-14-2		U	958	479
2,6-Dinitrotoluene	606-20-2		U	958	479
2-Chloronaphthalene	91-58-7		U	958	479
2-Chlorophenol	95-57-8		U	958	479
2-Methylnaphthalene	91-57-6		U	958	479
2-Methylphenol	95-48-7		U	958	479
2-Nitroaniline	88-74-4		U	4790	2390
2-Nitrophenol	88-75-5		U	958	479
3,3'-Dichlorobenzidine	91-94-1		U	1920	958
3-,4-Methylphenol	106-44-5		U	958	479
3-Nitroaniline	99-09-2		U	4790	2390
4,6-Dinitro-2-methylphenol	534-52-1		U	4790	2390
4-Bromophenyl phenyl ether	101-55-3		U	958	479
4-Chloro-3-methylphenol	59-50-7		U	958	479
4-Chloroaniline	106-47-8		U	958	479
4-Chlorophenyl phenyl ether	7005-72-3		U	958	479
4-Nitroaniline	100-01-6		U	4790	2390
4-Nitrophenol	100-02-7		U	4790	2390
Acenaphthene	83-32-9		U	958	479
Acenaphthylene	208-96-8		U	958	479
Anthracene	120-12-7		U	958	479
Benzo(a)anthracene	56-55-3		U	958	479
Benzo(a)pyrene	50-32-8		U	958	479
Benzo(b)fluoranthene	205-99-2		U	958	479
Benzo(g,h,i)Perylene	191-24-2		U	958	479
Benzo(k)fluoranthene	207-08-9		U	958	479
Bis(2-Chloroethoxy)Methane	111-91-1		U	958	479
Bis(2-Chloroethyl)ether	111-44-4		U	958	479
bis(2-Chloroisopropyl)ether	39638-32-9		U	958	479
bis(2-Ethylhexyl)phthalate	117-81-7		U	958	479
Butyl benzyl phthalate	85-68-7		U	958	479
Carbazole	86-74-8		U	958	479
Chrysene	218-01-9		U	958	479
Dibenz(a,h)anthracene	53-70-3		U	958	479
Dibenzofuran	132-64-9		U	958	479
Diethyl phthalate	84-66-2		U	958	479
Dimethyl phthalate	131-11-3		U	958	479
Di-N-Butylphthalate	84-74-2		U	958	479
Di-n-octyl phthalate	117-84-0		U	958	479
Fluoranthene	206-44-0		U	958	479
Fluorene	86-73-7		U	958	479
Hexachlorobenzene	118-74-1		U	958	479
Hexachlorobutadiene	87-68-3		U	958	479
Hexachlorocyclopentadiene	77-47-4		U	958	479
Hexachloroethane	67-72-1		U	958	479
Indeno(1,2,3-cd)pyrene	193-39-5		U	958	479
Isophorone	78-59-1		U	958	479
Naphthalene	91-20-3		U	958	479
Nitrobenzene	98-95-3		U	958	479
N-Nitrosodiphenylamine	86-30-6		U	958	479
N-Nitrosodipropylamine	621-64-7		U	958	479
Pentachlorophenol	87-86-5		U	4790	2390
Phenanthrene	85-01-8		U	958	479
Phenol	108-95-2		U	958	479

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0143-SO01-050808	Prep Method:	3545	Prep Date:	05/12/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271196	Analyst:	CAA	Run Date:	05/13/2008 21:44
Collect Date:	05/08/2008 10:10	Dilution:	5	File ID:	12M21722
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	958	479

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol		19	122	*
2-Fluorobiphenyl	62.8	30	115	
2-Fluorophenol	34.1	25	121	
Nitrobenzene-d5	56.7	23	120	
p-Terphenyl-d14	81.0	18	137	
Phenol-d5	55.5	24	113	

U Not detected at or above the reporting limit
***** Surrogate or spike compound out of range

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-01**
Client ID: **0143-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271375**
Collect Date: **05/08/2008 10:10**
Sample Tag: **REDL1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/15/2008 19:36**
Cal Date: **04/25/2008 17:11**
Run Date: **05/15/2008 19:36**
File ID: **12M21769**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	952	476
2,4,6-Trichlorophenol	88-06-2		U	952	476
2,4-Dichlorophenol	120-83-2		U	952	476
2,4-Dimethylphenol	105-67-9		U	952	476
2,4-Dinitrophenol	51-28-5		U	4760	2380
2,4-Dinitrotoluene	121-14-2		U	952	476
2,6-Dinitrotoluene	606-20-2		U	952	476
2-Chloronaphthalene	91-58-7		U	952	476
2-Chlorophenol	95-57-8		U	952	476
2-Methylnaphthalene	91-57-6		U	952	476
2-Methylphenol	95-48-7		U	952	476
2-Nitroaniline	88-74-4		U	4760	2380
2-Nitrophenol	88-75-5		U	952	476
3,3'-Dichlorobenzidine	91-94-1		U	1900	952
3-,4-Methylphenol	106-44-5		U	952	476
3-Nitroaniline	99-09-2		U	4760	2380
4,6-Dinitro-2-methylphenol	534-52-1		U	4760	2380
4-Bromophenyl phenyl ether	101-55-3		U	952	476
4-Chloro-3-methylphenol	59-50-7		U	952	476
4-Chloroaniline	106-47-8		U	952	476
4-Chlorophenyl phenyl ether	7005-72-3		U	952	476
4-Nitroaniline	100-01-6		U	4760	2380
4-Nitrophenol	100-02-7		U	4760	2380
Acenaphthene	83-32-9		U	952	476
Acenaphthylene	208-96-8		U	952	476
Anthracene	120-12-7		U	952	476
Benzo(a)anthracene	56-55-3		U	952	476
Benzo(a)pyrene	50-32-8		U	952	476
Benzo(b)fluoranthene	205-99-2		U	952	476
Benzo(g,h,i)Perylene	191-24-2		U	952	476
Benzo(k)fluoranthene	207-08-9		U	952	476
Bis(2-Chloroethoxy)Methane	111-91-1		U	952	476
Bis(2-Chloroethyl)ether	111-44-4		U	952	476
bis(2-Chloroisopropyl)ether	39638-32-9		U	952	476
bis(2-Ethylhexyl)phthalate	117-81-7		U	952	476
Butyl benzyl phthalate	85-68-7		U	952	476
Carbazole	86-74-8		U	952	476
Chrysene	218-01-9		U	952	476
Dibenz(a,h)anthracene	53-70-3		U	952	476
Dibenzofuran	132-64-9		U	952	476
Diethyl phthalate	84-66-2		U	952	476
Dimethyl phthalate	131-11-3		U	952	476
Di-N-Butylphthalate	84-74-2		U	952	476
Di-n-octyl phthalate	117-84-0		U	952	476
Fluoranthene	206-44-0	1260		952	476
Fluorene	86-73-7		U	952	476
Hexachlorobenzene	118-74-1		U	952	476
Hexachlorobutadiene	87-68-3		U	952	476
Hexachlorocyclopentadiene	77-47-4		U	952	476
Hexachloroethane	67-72-1		U	952	476
Indeno(1,2,3-cd)pyrene	193-39-5		U	952	476
Isophorone	78-59-1		U	952	476
Naphthalene	91-20-3		U	952	476
Nitrobenzene	98-95-3		U	952	476
N-Nitrosodiphenylamine	86-30-6		U	952	476
N-Nitrosodipropylamine	621-64-7		U	952	476
Pentachlorophenol	87-86-5		U	4760	2380
Phenanthrene	85-01-8	1170		952	476
Phenol	108-95-2		U	952	476

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0143-SO01-050808	Prep Method:	3545	Prep Date:	05/15/2008 19:36
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271375	Analyst:	MES	Run Date:	05/15/2008 19:36
Collect Date:	05/08/2008 10:10	Dilution:	5	File ID:	12M21769
Sample Tag:	REDL1	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0	1360		952	476

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	21.7	19	122	
2-Fluorobiphenyl	41.8	30	115	
2-Fluorophenol	12.5	25	121	*
Nitrobenzene-d5	39.2	23	120	
p-Terphenyl-d14	88.1	18	137	
Phenol-d5	35.5	24	113	

U Not detected at or above the reporting limit
***** Surrogate or spike compound out of range

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-02**
Client ID: **0143-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271196**
Collect Date: **05/08/2008 10:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/12/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/13/2008 22:20**
File ID: **12M21723**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4	1090		925	462
2,4,6-Trichlorophenol	88-06-2		U	925	462
2,4-Dichlorophenol	120-83-2	1140		925	462
2,4-Dimethylphenol	105-67-9	1120		925	462
2,4-Dinitrophenol	51-28-5		U	4620	2310
2,4-Dinitrotoluene	121-14-2	2090		925	462
2,6-Dinitrotoluene	606-20-2	1790		925	462
2-Chloronaphthalene	91-58-7	1330		925	462
2-Chlorophenol	95-57-8	1360		925	462
2-Methylnaphthalene	91-57-6	1410		925	462
2-Methylphenol	95-48-7	1350		925	462
2-Nitroaniline	88-74-4		U	4620	2310
2-Nitrophenol	88-75-5	1360		925	462
3,3'-Dichlorobenzidine	91-94-1	3280		1850	925
3-,4-Methylphenol	106-44-5	1460		925	462
3-Nitroaniline	99-09-2		U	4620	2310
4,6-Dinitro-2-methylphenol	534-52-1		U	4620	2310
4-Bromophenyl phenyl ether	101-55-3	1780		925	462
4-Chloro-3-methylphenol	59-50-7	1730		925	462
4-Chloroaniline	106-47-8	1260		925	462
4-Chlorophenyl phenyl ether	7005-72-3	1760		925	462
4-Nitroaniline	100-01-6		U	4620	2310
4-Nitrophenol	100-02-7		U	4620	2310
Acenaphthene	83-32-9	1420		925	462
Acenaphthylene	208-96-8	1570		925	462
Anthracene	120-12-7	2290		925	462
Benzo(a)anthracene	56-55-3	3100		925	462
Benzo(a)pyrene	50-32-8	3060		925	462
Benzo(b)fluoranthene	205-99-2	3350		925	462
Benzo(g,h,i)Perylene	191-24-2	1830		925	462
Benzo(k)fluoranthene	207-08-9	3240		925	462
Bis(2-Chloroethoxy)Methane	111-91-1	1400		925	462
Bis(2-Chloroethyl)ether	111-44-4	1380		925	462
bis(2-Chloroisopropyl)ether	39638-32-9	1570		925	462
bis(2-Ethylhexyl)phthalate	117-81-7	3150		925	462
Butyl benzyl phthalate	85-68-7	2940		925	462
Carbazole	86-74-8	2440		925	462
Chrysene	218-01-9	3150		925	462
Dibenz(a,h)anthracene	53-70-3	2430		925	462
Dibenzofuran	132-64-9	1730		925	462
Diethyl phthalate	84-66-2	1900		925	462
Dimethyl phthalate	131-11-3	1620		925	462
Di-N-Butylphthalate	84-74-2	2190		925	462
Di-n-octyl phthalate	117-84-0	4100		925	462
Fluoranthene	206-44-0	2830		925	462
Fluorene	86-73-7	1800		925	462
Hexachlorobenzene	118-74-1	2230		925	462
Hexachlorobutadiene	87-68-3	1570		925	462
Hexachlorocyclopentadiene	77-47-4	1060		925	462
Hexachloroethane	67-72-1	1270		925	462
Indeno(1,2,3-cd)pyrene	193-39-5	2020		925	462
Isophorone	78-59-1	1540		925	462
Naphthalene	91-20-3	1370		925	462
Nitrobenzene	98-95-3	1460		925	462
N-Nitrosodiphenylamine	86-30-6	1690		925	462
N-Nitrosodipropylamine	621-64-7	1370		925	462
Pentachlorophenol	87-86-5		U	4620	2310
Phenanthrene	85-01-8	2380		925	462
Phenol	108-95-2	1330		925	462

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-02	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0143-SO01-050808	Prep Method:	3545	Prep Date:	05/12/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271196	Analyst:	CAA	Run Date:	05/13/2008 22:20
Collect Date:	05/08/2008 10:10	Dilution:	5	File ID:	12M21723
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0	3360		925	462

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	29.9	19	122	
2-Fluorobiphenyl	49.9	30	115	
2-Fluorophenol	42.9	25	121	
Nitrobenzene-d5	52.1	23	120	
p-Terphenyl-d14	112	18	137	
Phenol-d5	47.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-03**
Client ID: **0143-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271196**
Collect Date: **05/08/2008 10:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/12/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/15/2008 15:27**
File ID: **12M21762**
Percent Solid: **85.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4	1250		951	475
2,4,6-Trichlorophenol	88-06-2	833	J	951	475
2,4-Dichlorophenol	120-83-2	929	J	951	475
2,4-Dimethylphenol	105-67-9	1010		951	475
2,4-Dinitrophenol	51-28-5		U	4750	2370
2,4-Dinitrotoluene	121-14-2	1970		951	475
2,6-Dinitrotoluene	606-20-2	1530		951	475
2-Chloronaphthalene	91-58-7	1230		951	475
2-Chlorophenol	95-57-8	1240		951	475
2-Methylnaphthalene	91-57-6	1330		951	475
2-Methylphenol	95-48-7	1160		951	475
2-Nitroaniline	88-74-4		U	4750	2370
2-Nitrophenol	88-75-5	1630		951	475
3,3'-Dichlorobenzidine	91-94-1	2750		1900	951
3-,4-Methylphenol	106-44-5	1230		951	475
3-Nitroaniline	99-09-2		U	4750	2370
4,6-Dinitro-2-methylphenol	534-52-1		U	4750	2370
4-Bromophenyl phenyl ether	101-55-3	1570		951	475
4-Chloro-3-methylphenol	59-50-7	1420		951	475
4-Chloroaniline	106-47-8	1090		951	475
4-Chlorophenyl phenyl ether	7005-72-3	1590		951	475
4-Nitroaniline	100-01-6		U	4750	2370
4-Nitrophenol	100-02-7		U	4750	2370
Acenaphthene	83-32-9	1400		951	475
Acenaphthylene	208-96-8	1520		951	475
Anthracene	120-12-7	2180		951	475
Benzo(a)anthracene	56-55-3	2750		951	475
Benzo(a)pyrene	50-32-8	2730		951	475
Benzo(b)fluoranthene	205-99-2	2770		951	475
Benzo(g,h,i)Perylene	191-24-2	2460		951	475
Benzo(k)fluoranthene	207-08-9	2720		951	475
Bis(2-Chloroethoxy)Methane	111-91-1	1220		951	475
Bis(2-Chloroethyl)ether	111-44-4	1270		951	475
bis(2-Chloroisopropyl)ether	39638-32-9	1420		951	475
bis(2-Ethylhexyl)phthalate	117-81-7	2860		951	475
Butyl benzyl phthalate	85-68-7	2810		951	475
Carbazole	86-74-8	2230		951	475
Chrysene	218-01-9	2880		951	475
Dibenz(a,h)anthracene	53-70-3	2760		951	475
Dibenzofuran	132-64-9	1620		951	475
Diethyl phthalate	84-66-2	1880		951	475
Dimethyl phthalate	131-11-3	1620		951	475
Di-N-Butylphthalate	84-74-2	2210		951	475
Di-n-octyl phthalate	117-84-0	3270		951	475
Fluoranthene	206-44-0	2650		951	475
Fluorene	86-73-7	1650		951	475
Hexachlorobenzene	118-74-1	2160		951	475
Hexachlorobutadiene	87-68-3	1590		951	475
Hexachlorocyclopentadiene	77-47-4	1450		951	475
Hexachloroethane	67-72-1	1350		951	475
Indeno(1,2,3-cd)pyrene	193-39-5	2530		951	475
Isophorone	78-59-1	1370		951	475
Naphthalene	91-20-3	1280		951	475
Nitrobenzene	98-95-3	1270		951	475
N-Nitrosodiphenylamine	86-30-6	1510		951	475
N-Nitrosodipropylamine	621-64-7	1190		951	475
Pentachlorophenol	87-86-5		U	4750	2370
Phenanthrene	85-01-8	2200		951	475
Phenol	108-95-2	1110		951	475

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-03	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0143-SO01-050808	Prep Method:	3545	Prep Date:	05/12/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271196	Analyst:	MES	Run Date:	05/15/2008 15:27
Collect Date:	05/08/2008 10:10	Dilution:	5	File ID:	12M21762
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	85.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0	2830		951	475

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	60.6	19	122	
2-Fluorobiphenyl	47.1	30	115	
2-Fluorophenol	34.7	25	121	
Nitrobenzene-d5	44.1	23	120	
p-Terphenyl-d14	84.8	18	137	
Phenol-d5	37.2	24	113	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-04**
Client ID: **0142-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271196**
Collect Date: **05/08/2008 10:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/12/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/13/2008 15:53**
File ID: **12M21712**
Percent Solid: **84.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	189	94.6
2,4,6-Trichlorophenol	88-06-2		U	189	94.6
2,4-Dichlorophenol	120-83-2		U	189	94.6
2,4-Dimethylphenol	105-67-9		U	189	94.6
2,4-Dinitrophenol	51-28-5		U	946	473
2,4-Dinitrotoluene	121-14-2		U	189	94.6
2,6-Dinitrotoluene	606-20-2		U	189	94.6
2-Chloronaphthalene	91-58-7		U	189	94.6
2-Chlorophenol	95-57-8		U	189	94.6
2-Methylnaphthalene	91-57-6		U	189	94.6
2-Methylphenol	95-48-7		U	189	94.6
2-Nitroaniline	88-74-4		U	946	473
2-Nitrophenol	88-75-5		U	189	94.6
3,3'-Dichlorobenzidine	91-94-1		U	379	189
3-,4-Methylphenol	106-44-5		U	189	94.6
3-Nitroaniline	99-09-2		U	946	473
4,6-Dinitro-2-methylphenol	534-52-1		U	946	473
4-Bromophenyl phenyl ether	101-55-3		U	189	94.6
4-Chloro-3-methylphenol	59-50-7		U	189	94.6
4-Chloroaniline	106-47-8		U	189	94.6
4-Chlorophenyl phenyl ether	7005-72-3		U	189	94.6
4-Nitroaniline	100-01-6		U	946	473
4-Nitrophenol	100-02-7		U	946	473
Acenaphthene	83-32-9		U	189	94.6
Acenaphthylene	208-96-8		U	189	94.6
Anthracene	120-12-7		U	189	94.6
Benzo(a)anthracene	56-55-3		U	189	94.6
Benzo(a)pyrene	50-32-8		U	189	94.6
Benzo(b)fluoranthene	205-99-2		U	189	94.6
Benzo(g,h,i)Perylene	191-24-2		U	189	94.6
Benzo(k)fluoranthene	207-08-9		U	189	94.6
Bis(2-Chloroethoxy)Methane	111-91-1		U	189	94.6
Bis(2-Chloroethyl)ether	111-44-4		U	189	94.6
bis(2-Chloroisopropyl)ether	39638-32-9		U	189	94.6
bis(2-Ethylhexyl)phthalate	117-81-7		U	189	94.6
Butyl benzyl phthalate	85-68-7		U	189	94.6
Carbazole	86-74-8		U	189	94.6
Chrysene	218-01-9		U	189	94.6
Dibenz(a,h)anthracene	53-70-3		U	189	94.6
Dibenzofuran	132-64-9		U	189	94.6
Diethyl phthalate	84-66-2		U	189	94.6
Dimethyl phthalate	131-11-3		U	189	94.6
Di-N-Butylphthalate	84-74-2		U	189	94.6
Di-n-octyl phthalate	117-84-0		U	189	94.6
Fluoranthene	206-44-0		U	189	94.6
Fluorene	86-73-7		U	189	94.6
Hexachlorobenzene	118-74-1		U	189	94.6
Hexachlorobutadiene	87-68-3		U	189	94.6
Hexachlorocyclopentadiene	77-47-4		U	189	94.6
Hexachloroethane	67-72-1		U	189	94.6
Indeno(1,2,3-cd)pyrene	193-39-5		U	189	94.6
Isophorone	78-59-1		U	189	94.6
Naphthalene	91-20-3		U	189	94.6
Nitrobenzene	98-95-3		U	189	94.6
N-Nitrosodiphenylamine	86-30-6		U	189	94.6
N-Nitrosodipropylamine	621-64-7		U	189	94.6
Pentachlorophenol	87-86-5		U	946	473
Phenanthrene	85-01-8		U	189	94.6
Phenol	108-95-2		U	189	94.6

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-04	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0142-SO01-050808	Prep Method:	3545	Prep Date:	05/12/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271196	Analyst:	CAA	Run Date:	05/13/2008 15:53
Collect Date:	05/08/2008 10:40	Dilution:	1	File ID:	12M21712
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	189	94.6

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	32.2	19	122	
2-Fluorobiphenyl	41.8	30	115	
2-Fluorophenol	43.1	25	121	
Nitrobenzene-d5	40.3	23	120	
p-Terphenyl-d14	92.4	18	137	
Phenol-d5	42.9	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-05**
Client ID: **0144-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271196**
Collect Date: **05/08/2008 11:10**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/12/2008 08:00**
Cal Date: **04/25/2008 17:11**
Run Date: **05/15/2008 16:03**
File ID: **12M21763**
Percent Solid: **77.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	207	103
2,4,6-Trichlorophenol	88-06-2		U	207	103
2,4-Dichlorophenol	120-83-2		U	207	103
2,4-Dimethylphenol	105-67-9		U	207	103
2,4-Dinitrophenol	51-28-5		U	1030	516
2,4-Dinitrotoluene	121-14-2		U	207	103
2,6-Dinitrotoluene	606-20-2		U	207	103
2-Chloronaphthalene	91-58-7		U	207	103
2-Chlorophenol	95-57-8		U	207	103
2-Methylnaphthalene	91-57-6		U	207	103
2-Methylphenol	95-48-7		U	207	103
2-Nitroaniline	88-74-4		U	1030	516
2-Nitrophenol	88-75-5		U	207	103
3,3'-Dichlorobenzidine	91-94-1		U	413	207
3-,4-Methylphenol	106-44-5		U	207	103
3-Nitroaniline	99-09-2		U	1030	516
4,6-Dinitro-2-methylphenol	534-52-1		U	1030	516
4-Bromophenyl phenyl ether	101-55-3		U	207	103
4-Chloro-3-methylphenol	59-50-7		U	207	103
4-Chloroaniline	106-47-8		U	207	103
4-Chlorophenyl phenyl ether	7005-72-3		U	207	103
4-Nitroaniline	100-01-6		U	1030	516
4-Nitrophenol	100-02-7		U	1030	516
Acenaphthene	83-32-9		U	207	103
Acenaphthylene	208-96-8		U	207	103
Anthracene	120-12-7		U	207	103
Benzo(a)anthracene	56-55-3		U	207	103
Benzo(a)pyrene	50-32-8		U	207	103
Benzo(b)fluoranthene	205-99-2		U	207	103
Benzo(g,h,i)Perylene	191-24-2		U	207	103
Benzo(k)fluoranthene	207-08-9		U	207	103
Bis(2-Chloroethoxy)Methane	111-91-1		U	207	103
Bis(2-Chloroethyl)ether	111-44-4		U	207	103
bis(2-Chloroisopropyl)ether	39638-32-9		U	207	103
bis(2-Ethylhexyl)phthalate	117-81-7		U	207	103
Butyl benzyl phthalate	85-68-7		U	207	103
Carbazole	86-74-8		U	207	103
Chrysene	218-01-9	208		207	103
Dibenz(a,h)anthracene	53-70-3		U	207	103
Dibenzofuran	132-64-9		U	207	103
Diethyl phthalate	84-66-2		U	207	103
Dimethyl phthalate	131-11-3		U	207	103
Di-N-Butylphthalate	84-74-2		U	207	103
Di-n-octyl phthalate	117-84-0		U	207	103
Fluoranthene	206-44-0		U	207	103
Fluorene	86-73-7		U	207	103
Hexachlorobenzene	118-74-1		U	207	103
Hexachlorobutadiene	87-68-3		U	207	103
Hexachlorocyclopentadiene	77-47-4		U	207	103
Hexachloroethane	67-72-1		U	207	103
Indeno(1,2,3-cd)pyrene	193-39-5		U	207	103
Isophorone	78-59-1		U	207	103
Naphthalene	91-20-3		U	207	103
Nitrobenzene	98-95-3		U	207	103
N-Nitrosodiphenylamine	86-30-6		U	207	103
N-Nitrosodipropylamine	621-64-7		U	207	103
Pentachlorophenol	87-86-5		U	1030	516
Phenanthrene	85-01-8		U	207	103
Phenol	108-95-2		U	207	103

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-05	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0144-SO01-050808	Prep Method:	3545	Prep Date:	05/12/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271196	Analyst:	MES	Run Date:	05/15/2008 16:03
Collect Date:	05/08/2008 11:10	Dilution:	1	File ID:	12M21763
Sample Tag:	02	Units:	ug/kg	Percent Solid:	77.5

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	207	103

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	96.7	19	122	
2-Fluorobiphenyl	65.6	30	115	
2-Fluorophenol	64.2	25	121	
Nitrobenzene-d5	65.5	23	120	
p-Terphenyl-d14	86.4	18	137	
Phenol-d5	71.1	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number: **L08050189-06**
Client ID: **0140-SO01-050808**
Matrix: **Soil**
Workgroup Number: **WG271375**
Collect Date: **05/08/2008 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/15/2008 16:38**
Cal Date: **04/25/2008 17:11**
Run Date: **05/15/2008 16:38**
File ID: **12M21764**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	183	91.3
2,4,6-Trichlorophenol	88-06-2		U	183	91.3
2,4-Dichlorophenol	120-83-2		U	183	91.3
2,4-Dimethylphenol	105-67-9		U	183	91.3
2,4-Dinitrophenol	51-28-5		U	913	456
2,4-Dinitrotoluene	121-14-2		U	183	91.3
2,6-Dinitrotoluene	606-20-2		U	183	91.3
2-Chloronaphthalene	91-58-7		U	183	91.3
2-Chlorophenol	95-57-8		U	183	91.3
2-Methylnaphthalene	91-57-6		U	183	91.3
2-Methylphenol	95-48-7		U	183	91.3
2-Nitroaniline	88-74-4		U	913	456
2-Nitrophenol	88-75-5		U	183	91.3
3,3'-Dichlorobenzidine	91-94-1		U	365	183
3-,4-Methylphenol	106-44-5		U	183	91.3
3-Nitroaniline	99-09-2		U	913	456
4,6-Dinitro-2-methylphenol	534-52-1		U	913	456
4-Bromophenyl phenyl ether	101-55-3		U	183	91.3
4-Chloro-3-methylphenol	59-50-7		U	183	91.3
4-Chloroaniline	106-47-8		U	183	91.3
4-Chlorophenyl phenyl ether	7005-72-3		U	183	91.3
4-Nitroaniline	100-01-6		U	913	456
4-Nitrophenol	100-02-7		U	913	456
Acenaphthene	83-32-9		U	183	91.3
Acenaphthylene	208-96-8		U	183	91.3
Anthracene	120-12-7		U	183	91.3
Benzo(a)anthracene	56-55-3		U	183	91.3
Benzo(a)pyrene	50-32-8		U	183	91.3
Benzo(b)fluoranthene	205-99-2		U	183	91.3
Benzo(g,h,i)Perylene	191-24-2		U	183	91.3
Benzo(k)fluoranthene	207-08-9		U	183	91.3
Bis(2-Chloroethoxy)Methane	111-91-1		U	183	91.3
Bis(2-Chloroethyl)ether	111-44-4		U	183	91.3
bis(2-Chloroisopropyl)ether	39638-32-9		U	183	91.3
bis(2-Ethylhexyl)phthalate	117-81-7		U	183	91.3
Butyl benzyl phthalate	85-68-7		U	183	91.3
Carbazole	86-74-8		U	183	91.3
Chrysene	218-01-9		U	183	91.3
Dibenz(a,h)anthracene	53-70-3		U	183	91.3
Dibenzofuran	132-64-9		U	183	91.3
Diethyl phthalate	84-66-2		U	183	91.3
Dimethyl phthalate	131-11-3		U	183	91.3
Di-N-Butylphthalate	84-74-2		U	183	91.3
Di-n-octyl phthalate	117-84-0		U	183	91.3
Fluoranthene	206-44-0		U	183	91.3
Fluorene	86-73-7		U	183	91.3
Hexachlorobenzene	118-74-1		U	183	91.3
Hexachlorobutadiene	87-68-3		U	183	91.3
Hexachlorocyclopentadiene	77-47-4		U	183	91.3
Hexachloroethane	67-72-1		U	183	91.3
Indeno(1,2,3-cd)pyrene	193-39-5		U	183	91.3
Isophorone	78-59-1		U	183	91.3
Naphthalene	91-20-3		U	183	91.3
Nitrobenzene	98-95-3		U	183	91.3
N-Nitrosodiphenylamine	86-30-6		U	183	91.3
N-Nitrosodipropylamine	621-64-7		U	183	91.3
Pentachlorophenol	87-86-5		U	913	456
Phenanthrene	85-01-8		U	183	91.3
Phenol	108-95-2		U	183	91.3

Report Number: **L08050189**
Report Date : **May 27, 2008**

Sample Number:	L08050189-06	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0140-SO01-050808	Prep Method:	3545	Prep Date:	05/15/2008 16:38
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271375	Analyst:	MES	Run Date:	05/15/2008 16:38
Collect Date:	05/08/2008 11:45	Dilution:	1	File ID:	12M21764
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.9

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	183	91.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	50.4	19	122	
2-Fluorobiphenyl	31.4	30	115	
2-Fluorophenol	39.7	25	121	
Nitrobenzene-d5	37.1	23	120	
p-Terphenyl-d14	73.4	18	137	
Phenol-d5	37.2	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet

R1449840

Microbac

Parameter: BNA Soil SOP #: EXASE01 Revision #: 10
Extraction Analyst(s): RAH TV/KD Analyst(s): RAH
Date/Time Extracted: 5/14/08 1115 Date TV/KD: 5/14/08
Spike/Surrogate Analyst: RAH Witness: CA71
Surrogate #: STD025376 Earliest Hold Date: 5/22
Spike #: A = STD026068 Spike #: B = —

Extraction Work Group WG 271231

Extract Relinquished By: RAH
Extract Received By & Date: HV 5/14/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500uL		1mL	T				WG271231-01
2	LCS					"	"	500uL	"	C				WG -02
3	LCS DUP					"	"	"	"	C				-03
4	05-0189-01	827-SPE				20.22g				O				REEXT IN HOLD
5	-06	"				20.84g	—		"	O				"
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

5/14/08 RAH

Methylene Chloride Lot #: G06E30
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: E11404
Reagent: — Lot #: —
Acid: 1:1 Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: C0A12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Cheryl Flowers Date: 5-14-08

Extraction Notes For Volume # 300 Page # 19

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: NA

Supervisor Review: _____ Date: _____

R1448215

Document Control No. EP0300 Page 3 of 200

Sample Extract Log Sheet

Microbac

Parameter: BNA Soil SOP #: EX35E01 Revision #: 6
Extraction Analyst(s): RAH TV/KD Analyst(s): CSH
Date/Time Extracted: 5/12/08 0800 Date TV/KD: 05-12-08
Spike/Surrogate Analyst: RAH Witness: CAF
Surrogate #: STD 25376 #15 Earliest Hold Date: 5/22
Spike #: A = STD 25009 #4 Spike #: B = —

Extraction Work Group WG 270917
Extract Relinquished By: CPD
Extract Received By & Date: CAN 5/13/08

	Sample ID	Test Code	pH θ <2	pH θ N	pH θ >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions θ A	Emulsions θ BN	Emulsions θ N	Comments
1	Blank					20.00g	500 uL		1 mL	T				WG 270917-04
2	LCS					—		500 uL		C				WG -05
3	05-0173-02 Re/ 827-SPE					20.53g				C				-01
4	-04 ms					20.96g		500 uL		C				-06
5	-06 msd					20.41g		—		C				-07
6	-08 Re					17.86g				O				-02
7	-10 ms					20.36g		500 uL		C				-08
8	-12 msd					17.93g		—		O				-09
9	-14					20.77g				O				
10	-16					20.18g				O				
11	-18					20.53g				C				
12	-20					20.34g				C				
13	05-0189-01 Re					20.09g				O				WG 270917-03
14	-02 ms					20.82g		500 uL		O				-10
15	-03 msd					20.25g		—		O				-11
16	-04					20.67g				C				
17	-05					20.62g				O				
18	-06	—				20.12g	—		—	O				
19														
20														
21														
22														
23														
24														

CPD 5-12-08

Methylene Chloride Lot #: G06E27
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: E11H04
Reagent: — Lot #: —
Acid: 1% Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: CUA12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: [signature] Date: 5-12-8

Extraction Notes For Volume # 300 Page # 3

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21387	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:29
2	12M21388	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:45
3	12M21389	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:06
4	12M21390	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 09:25
5	12M21391	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:58
6	12M21392	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 10:17
7	12M21393	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 11:21
8	12M21394	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 11:40
9	12M21395	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 12:44
10	12M21396	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:03
11	12M21397	WG269466-03 3 PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:39
12	12M21398	WG269466-04 10 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:14
13	12M21399	WG269466-05 15 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:51
14	12M21400	WG269466-06 25 PPM MEGAMIX STD	1	1	STD25568	04/25/08 15:26
15	12M21401	WG269466-07 80 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:01
16	12M21402	WG269466-08 100 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:36
17	12M21403	WG269466-09 120 PPM MEGAMIX STD	1	1	STD25568	04/25/08 17:11
18	12M21404	WG269466-10 50PPM BNA ALT SOURCE	1	1	STD24887	04/25/08 17:46
19	12M21405	WG269466-11 50PPM A9 ALT SOURCE	1	1	STD24013	04/25/08 18:21
20	12M21406	WG268690-02 BLANK EP0297 PG139	17	1		04/25/08 18:56
21	12M21407	L08040535-01 D1 50X SOIL	10	50		04/25/08 19:31
22	12M21408	L08040356-01 2X	1	2		04/25/08 20:06
23	12M21409	L08040356-03 D1 5X	1	5		04/25/08 20:41
24	12M21410	L08040356-03 D2 50X	1	50		04/25/08 21:16
25	12M21411	L08040356-04	1	1		04/25/08 21:51
26	12M21412	L08040356-04 D1 5X	1	5		04/25/08 22:27
27	12M21413	L08040398-01 TCLP	17	1		04/25/08 23:02
28	12M21414	WG268690-01 L08040398-02 TCLP	17	1		04/25/08 23:37
29	12M21415	WG268690-05 L08040398-02 MS TCLP	17	1		04/26/08 00:13
30	12M21416	L08040398-03 TCLP	17	1		04/26/08 00:48
31	12M21417	BAKE OUT	1	1		04/26/08 01:23
32	12M21418	BAKE OUT	1	1		04/26/08 01:58

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1 Approved: 27-APR-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
2				
	RR DFTPP failed. Retuned MS.			
4				
	Internals low-increased voltage-restarting.			
6				
	Hexachlorobutadiene high. Clipping column-change gold seal.			
8				
	Hexachlorobutadiene high-changing liner.			
22	X	10	Over Calibration Range	12,17,19,22,38
	tph is low. PHL is <10% due to SMI. Not reextracting.			
25				
	Do not report-IS fails.			
30	X	1	Missed Tune	

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051308
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24125

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG271196
Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21707	WG271114-01 50PPM DFTPP STD	1	1	STD25193	05/13/08 13:19
2	12M21708	WG271114-01 50PPM DFTPP STD	1	1	STD25193	05/13/08 13:49
3	12M21709	WG271114-02 50PPM MEGAMIX STD	1	1	STD25568	05/13/08 14:08
4	12M21710	WG270917-04 BLK 5/12 EP300 P3	7	1	SOIL	05/13/08 14:43
5	12M21711	WG270917-05 LCS 5/12 EP300 P3	7	1	SOIL	05/13/08 15:18
6	12M21712	L08050189-04 SOIL	7	1	SOIL	05/13/08 15:53
7	12M21713	L08050173-18 SOIL	7	1	SOIL	05/13/08 16:28
8	12M21714	WG270917-01 L08050173-02 REF SOIL	7	1	SOIL	05/13/08 17:03
9	12M21715	WG270917-06 L08050173-04 MS SOIL	7	1	SOIL	05/13/08 17:38
10	12M21716	WG270917-07 L08050173-06 MSD SOIL	7	1	SOIL	05/13/08 18:12
11	12M21717	L08050173-20 SOIL	7	1	SOIL	05/13/08 18:48
12	12M21718	L08050173-14 SOIL	7	1	SOIL	05/13/08 19:23
13	12M21719	WG270917-02 L08050173-08 REF SOIL	7	1	SOIL	05/13/08 19:59
14	12M21720	WG270917-08 L08050173-10 MS SOIL	7	1	SOIL	05/13/08 20:34
15	12M21721	WG270917-09 L08050173-12 MSD SOIL	7	1	SOIL	05/13/08 21:09
16	12M21722	WG270917-03 L08050189-01 REF 5X SOIL	7	5	SOIL	05/13/08 21:44
17	12M21723	WG270917-10 L08050189-02 MS 5X MSD SOIL	7	5	SOIL	05/13/08 22:20
18	12M21724	L08050189-06 5X SOIL	7	5	SOIL	05/13/08 22:56
19	12M21725	L08050173-16 SOIL	7	1	SOIL	05/13/08 23:30
20	12M21726	L08050189-05 SOIL	7	1	SOIL	05/14/08 00:05
21	12M21727	WG270917-11 L08050189-03 MSD SOIL	7	1	SOIL	05/14/08 00:40
22	12M21728	BAKEOUT	1	1		05/14/08 01:16
23	12M21729	BAKEOUT	1	1		05/14/08 01:51
24	12M21730	BAKEOUT	1	1		05/14/08 02:27

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
3				
	45 is >20% but <25% high.			
16				
	tbp is ND. Reextract.			
18				
	Rerun straight.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051308
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24125

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271196

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
	tbp is ND and FBP is low. Reextract. Also, reextracting to confirm that sample is actually fraction -06. Samples appear to have been mislabeled in extraction process.			
20	X	1	Internal standard failure	
	PRY is low.			
21				
	Do not report-RR at 5X.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24174

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG271384,WG271375,WG271238,WG271196,WG271239
Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21751	WG271305-01 50PPM DFTPP STD	1	1	STD25193	05/15/08 08:45
2	12M21752	WG271305-02 50PPM MEGAMIX STD	1	1	STD25568	05/15/08 09:04
3	12M21753	WG271305-01 50PPM DFTPP STD	1	1	STD25193	05/15/08 09:36
4	12M21754	WG271305-02 50PPM MEGAMIX STD	1	1	STD25568	05/15/08 09:56
5	12M21755	WG271305-01 50PPM DFTPP STD	1	1	STD25193	05/15/08 11:55
6	12M21756	WG271305-01 50PPM DFTPP STD	1	1	STD25193	05/15/08 12:11
7	12M21757	WG271305-02 50PPM MEGAMIX STD	1	1	STD25568	05/15/08 12:30
8	12M21758	WG271231-01 BLANK EP0300 PG19	7	1	SOIL	05/15/08 13:05
9	12M21759	WG271231-02 LCS EP0300 PG19	7	1	SOIL	05/15/08 13:40
10	12M21760	WG271231-03 LCSDUP EP0300 PG19	7	1	SOIL	05/15/08 14:15
11	12M21761	L08050173-21	18	1		05/15/08 14:51
12	12M21762	WG270917-11 L0805189-03 5X MSD	7	5	SOIL	05/15/08 15:27
13	12M21763	L08050189-05 SOIL	7	1	SOIL	05/15/08 16:03
14	12M21764	L08050189-06 SOIL	7	1	SOIL	05/15/08 16:38
15	12M21765	L08050232-01 10X SOLID WASTE	10	10	SOIL	05/15/08 17:15
16	12M21766	WG271337-01 BLANK EP0300 PG25	11	1		05/15/08 17:50
17	12M21767	WG271337-02 LCS EP0300 PG25	11	1		05/15/08 18:25
18	12M21768	WG271337-03 LCSDUP EP0300 PG25	11	1		05/15/08 19:01
19	12M21769	WG270917-03 L08050189-01 RE 5X SOIL	7	5		05/15/08 19:36
20	12M21770	L08050189-06 RE SOIL	7	1	SOIL	05/15/08 20:12
21	12M21771	L08050304-01 10X OIL	11	10		05/15/08 20:48
22	12M21772	L08050304-02 10X OIL	11	10		05/15/08 21:23
23	12M21773	L08050304-04 10X OIL	11	10		05/15/08 21:59
24	12M21774	BAKE OUT	1	1		05/15/08 22:35
25	12M21775	BAKE OUT	1	1		05/15/08 23:10
26	12M21776	L08050201-02 625	2	1		05/15/08 23:46
27	12M21777	BAKE OUT	2	1		05/16/08 00:21
28	12M21778	BAKE OUT	2	1		05/16/08 00:56

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	IS quite low-raising voltage.			
4				
	Computer software error-stopped in the middle of the run.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 051508

Analyst1: MES Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24174

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271384,WG271375,WG271238,WG271196,WG271239

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
5				
	RR, DFTPP failed. Quicktune.			
7				
	24,26,62,84 >20% but <25%. Benzoic acid >20% but <40% low.			
15				
	FBP,2FP,NBZ,TPH, and PHL are low. Sample is carbon-not reextracting.			
16				
	TPH is high.			
19				
	2FP is low.			
20				
	tbp and 2FP are low. Confirms initial run on 5/13/08 at 5X.			
21				
	tbp is low.			
22				
	tbp is low.			
23				
	tbp is low.			

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Microbac Laboratories Inc.

Data Checklist

Date: 25-APR-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 21849
Analytical Workgroups: L08040356,L08040535,L0804398

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
26-APR-2008

Secondary Reviewer:
27-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-27-2008 16:24:20

Microbac Laboratories Inc.

Data Checklist

Date: 13-MAY-2008
Analyst: CAA
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22167
Analytical Workgroups: L08050173,L08050189

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
14-MAY-2008

Secondary Reviewer:
14-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-14-2008 12:09:09

Microbac Laboratories Inc.

Data Checklist

Date: 15-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22219
Analytical Workgroups: L08050232,L08050189,L08050173,L08050201,L08050304

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 11:08:51

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271196

Login Number: L08050189

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0143-SO01-050808	05/08/08	05/09/08	05/12/08	14	3.91	05/13/08	40	1.57	
0142-SO01-050808	05/08/08	05/09/08	05/12/08	14	3.89	05/13/08	40	1.33	
0144-SO01-050808	05/08/08	05/09/08	05/12/08	14	3.87	05/15/08	40	3.34	
0143-SO01-050808	05/08/08	05/09/08	05/12/08	14	3.91	05/15/08	40	3.31	
0143-SO01-050808	05/08/08	05/09/08	05/12/08	14	3.91	05/13/08	40	1.60	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1095678
Report generated 05/16/2008 14:07

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271375

Login Number: L08050189

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0140-SO01-050808	05/08/08	05/09/08	05/15/08	14	7.20	05/15/08	40	7.20	
0143-SO01-050808	05/08/08	05/09/08	05/15/08	14	7.39	05/15/08	40	7.39	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1095678
Report generated 05/16/2008 14:07

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050189
Instrument Id: HPMS12
Workgroup (AAB#): WG271196

Method: 8270
CAL ID: HPMS12-25-APR-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050189-01	5.00	DL01	ND	62.8	34.1	56.7	81.0	55.5
L08050189-02	5.00	DL01	29.9	49.9	42.9	52.1	112	47.8
L08050189-03	5.00	DL01	60.6	47.1	34.7	44.1	84.8	37.2
L08050189-04	1.00	01	32.2	41.8	43.1	40.3	92.4	42.9
L08050189-05	1.00	02	96.7	65.6	64.2	65.5	86.4	71.1
WG270917-04	1.00	01	58.1	52.9	55.9	48.9	97.2	54.5
WG270917-05	1.00	01	74.8	60.2	59.4	61.2	91.9	62.5

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1093115
Report generated: 05/16/2008 14:10

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050189
Instrument Id: HPMS12
Workgroup (AAB#): WG271375

Method: 8270
CAL ID: HPMS12-25-APR-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050189-01	5.00	REDL1	21.7	41.8	12.5	39.2	88.1	35.5
L08050189-06	1.00	01	50.4	31.4	39.7	37.1	73.4	37.2
WG271231-01	1.00	01	47.5	53.8	50.9	51.3	72.0	50.4
WG271231-02	1.00	01	62.8	50.7	54.6	58.0	78.0	55.5
WG271231-03	1.00	01	57.5	52.1	54.6	59.0	65.0	56.1

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1093115
Report generated: 05/16/2008 14:10

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050189
Work Group: WG271196
Blank File ID: 12M21710
Blank Sample ID: WG270917-04
Prep Date: 05/12/08 08:00
Instrument ID: HPMS12
Analyzed Date: 05/13/08 14:43
Method: 8270C
Analyst: CAA

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG270917-05	12M21711	05/13/08 15:18	01
0142-SO01-050808	L08050189-04	12M21712	05/13/08 15:53	01
0143-SO01-050808	L08050189-01	12M21722	05/13/08 21:44	DL01
0143-SO01-050808	L08050189-02	12M21723	05/13/08 22:20	DL01
0143-SO01-050808	L08050189-03	12M21762	05/15/08 15:27	DL01
0144-SO01-050808	L08050189-05	12M21763	05/15/08 16:03	02

Report Name: BLANK_SUMMARY
PDF File ID: 1095679
Report generated 05/16/2008 14:07

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050189	Work Group:	WG271375
Blank File ID:	12M21758	Blank Sample ID:	WG271231-01
Prep Date:	05/14/08 11:15	Instrument ID:	HPMS12
Analyzed Date:	05/15/08 13:05	Method:	8270C
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271231-02	12M21759	05/15/08 13:40	01
LCS2	WG271231-03	12M21760	05/15/08 14:15	01
0140-SO01-050808	L08050189-06	12M21764	05/15/08 16:38	01
0143-SO01-050808	L08050189-01	12M21769	05/15/08 19:36	REDL1

Report Name: BLANK_SUMMARY
PDF File ID: 1095679
Report generated 05/16/2008 14:07

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050189 Prep Date:05/12/08 08:00 Sample ID:WG270917-04
Instrument ID:HPMS12 Run Date:05/13/08 14:43 Prep Method:3545
File ID:12M21710 Analyst:CAA Method:8270C
Workgroup (AAB#):WG271196 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/12/08 08:00 Sample ID: WG270917-04
Instrument ID: HPMS12 Run Date: 05/13/08 14:43 Prep Method: 3545
File ID: 12M21710 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG271196 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	58.1	19 - 122	PASS
2-Fluorobiphenyl	52.9	30 - 115	PASS
2-Fluorophenol	55.9	25 - 121	PASS
Nitrobenzene-d5	48.9	23 - 120	PASS
p-Terphenyl-d14	97.2	18 - 137	PASS
Phenol-d5	54.5	24 - 113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050189 Prep Date:05/14/08 11:15 Sample ID:WG271231-01
Instrument ID:HPMS12 Run Date:05/15/08 13:05 Prep Method:3545
File ID:12M21758 Analyst:MES Method:8270C
Workgroup (AAB#):WG271375 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050189 Prep Date: 05/14/08 11:15 Sample ID: WG271231-01
Instrument ID: HPMS12 Run Date: 05/15/08 13:05 Prep Method: 3545
File ID: 12M21758 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271375 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	47.5	19	-	122	PASS
2-Fluorobiphenyl	53.8	30	-	115	PASS
2-Fluorophenol	50.9	25	-	121	PASS
Nitrobenzene-d5	51.3	23	-	120	PASS
p-Terphenyl-d14	72.0	18	-	137	PASS
Phenol-d5	50.4	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* Analyte concentration > RL

Report Name:BLANK
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Run Date: 05/13/2008 Sample ID: WG270917-05
Instrument ID: HPMS12 Run Time: 15:18 Prep Method: 3545
File ID: 12M21711 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG271196 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS12-25-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
2,4,5-Trichlorophenol	2500	1730	69.2	49 - 125	
2,4,6-Trichlorophenol	2500	1680	67.0	43 - 125	
2,4-Dichlorophenol	2500	1460	58.4	45 - 125	
2,4-Dimethylphenol	2500	1390	55.6	32 - 125	
2,4-Dinitrophenol	2500	2020	80.6	25 - 132	
2,4-Dinitrotoluene	2500	2100	83.9	48 - 125	
2,6-Dinitrotoluene	2500	1710	68.6	48 - 125	
2-Chloronaphthalene	2500	1300	52.2	45 - 125	
2-Chlorophenol	2500	1510	60.6	44 - 125	
2-Methylnaphthalene	2500	1390	55.7	47 - 125	
2-Methylphenol	2500	1500	59.8	40 - 125	
2-Nitroaniline	2500	1930	77.1	44 - 125	
2-Nitrophenol	2500	1420	56.6	42 - 125	
3,3'-Dichlorobenzidine	2500	2560	102	20 - 128	
3-,4-Methylphenol	2500	1700	68.2	50 - 120	
3-Nitroaniline	2500	1960	78.4	27 - 125	
4,6-Dinitro-2-methylphenol	2500	2270	91.0	29 - 137	
4-Bromophenyl phenyl ether	2500	1440	57.8	46 - 125	
4-Chloro-3-methylphenol	2500	1510	60.5	46 - 125	
4-Chloroaniline	2500	1330	53.2	20 - 120	
4-Chlorophenyl phenyl ether	2500	1520	60.9	47 - 125	
4-Nitroaniline	2500	1960	78.4	34 - 125	
4-Nitrophenol	2500	2250	90.0	25 - 138	
Acenaphthene	2500	1570	62.8	46 - 125	
Acenaphthylene	2500	1580	63.0	44 - 125	
Anthracene	2500	1880	75.2	53 - 125	
Benzo(a)anthracene	2500	2570	103	52 - 125	
Benzo(a)pyrene	2500	2700	108	50 - 125	
Benzo(b)fluoranthene	2500	2760	110	45 - 125	
Benzo(g,h,i)Perylene	2500	2490	99.4	38 - 126	
Benzo(k)fluoranthene	2500	2710	108	45 - 125	
Bis(2-Chloroethoxy)Methane	2500	1420	57.0	43 - 125	
Bis(2-Chloroethyl)ether	2500	1520	61.0	38 - 125	
bis(2-Chloroisopropyl)ether	2500	1590	63.6	25 - 125	
bis(2-Ethylhexyl)phthalate	2500	2770	111	47 - 127	
Butyl benzyl phthalate	2500	2710	108	49 - 125	
Carbazole	2500	2140	85.6	40 - 135	
Chrysene	2500	2640	106	53 - 125	
Dibenz(a,h)anthracene	2500	2370	94.8	41 - 125	
Dibenzofuran	2500	1580	63.3	51 - 125	
Diethyl phthalate	2500	1910	76.4	50 - 125	

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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Run Date: 05/13/2008 Sample ID: WG270917-05
Instrument ID: HPMS12 Run Time: 15:18 Prep Method: 3545
File ID: 12M21711 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG271196 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: Cal ID: HPMS12-25-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Dimethyl phthalate	2500	1740	69.6	49 - 125	
Di-N-Butylphthalate	2500	2190	87.7	56 - 125	
Di-n-octyl phthalate	2500	2770	111	41 - 132	
Fluoranthene	2500	2380	95.1	54 - 125	
Fluorene	2500	1620	64.9	49 - 125	
Hexachlorobenzene	2500	1850	73.8	47 - 125	
Hexachlorobutadiene	2500	1590	63.7	40 - 125	
Hexachlorocyclopentadiene	2500	1590	63.6	10 - 150	
Hexachloroethane	2500	1530	61.1	34 - 125	
Indeno(1,2,3-cd)pyrene	2500	2560	102	38 - 125	
Isophorone	2500	1620	64.9	43 - 125	
Naphthalene	2500	1340	53.7	40 - 125	
Nitrobenzene	2500	1460	58.4	41 - 125	
N-Nitrosodiphenylamine	2500	1430	57.3	49 - 125	
N-Nitrosodipropylamine	2500	1520	60.9	40 - 125	
Pentachlorophenol	2500	2060	82.5	25 - 125	
Phenanthrene	2500	1820	72.7	50 - 125	
Phenol	2500	1560	62.5	39 - 125	
Pyrene	2500	2460	98.6	46 - 125	

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	74.8	19 - 122	PASS
2-Fluorobiphenyl	60.2	30 - 115	PASS
2-Fluorophenol	59.4	25 - 121	PASS
Nitrobenzene-d5	61.2	23 - 120	PASS
p-Terphenyl-d14	91.9	18 - 137	PASS
Phenol-d5	62.5	24 - 113	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1093113
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271375 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271231-02 LCS File ID: 12M21759 Run Date: 05/15/2008 13:40
Sample ID: WG271231-03 LCS2 File ID: 12M21760 Run Date: 05/15/2008 14:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1390	55.7	2500	1420	56.7	1.71	49 - 125	30	
2,4,6-Trichlorophenol	2500	1380	55.3	2500	1440	57.7	4.22	43 - 125	30	
2,4-Dichlorophenol	2500	1240	49.6	2500	1270	50.8	2.46	45 - 125	30	
2,4-Dimethylphenol	2500	1170	46.7	2500	1230	49.3	5.33	32 - 125	30	
2,4-Dinitrophenol	2500	1870	74.8	2500	1780	71.1	5.02	25 - 132	30	
2,4-Dinitrotoluene	2500	1760	70.4	2500	1570	63.0	11.1	48 - 125	30	
2,6-Dinitrotoluene	2500	1480	59.1	2500	1470	58.8	0.475	48 - 125	30	
2-Chloronaphthalene	2500	1070	42.9	2500	1130	45.2	5.21	45 - 125	30	*
2-Chlorophenol	2500	1350	54.0	2500	1360	54.3	0.417	44 - 125	30	
2-Methylnaphthalene	2500	1220	48.7	2500	1270	50.6	3.96	47 - 125	30	
2-Methylphenol	2500	1360	54.4	2500	1370	54.7	0.630	40 - 125	30	
2-Nitroaniline	2500	1620	64.8	2500	1650	66.1	1.89	44 - 125	30	
2-Nitrophenol	2500	1290	51.6	2500	1320	52.6	1.88	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1750	69.8	2500	1500	59.9	15.3	20 - 128	30	
3-,4-Methylphenol	2500	1400	56.0	2500	1490	59.7	6.35	50 - 120	30	
3-Nitroaniline	2500	1480	59.1	2500	1330	53.2	10.6	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	2080	83.2	2500	1880	75.3	10.1	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1210	48.6	2500	1170	46.7	3.96	46 - 125	30	
4-Chloro-3-methylphenol	2500	1230	49.4	2500	1290	51.6	4.43	46 - 125	30	
4-Chloroaniline	2500	1080	43.0	2500	1170	46.7	8.23	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1240	49.5	2500	1280	51.0	3.07	47 - 125	30	
4-Nitroaniline	2500	1480	59.1	2500	1330	53.2	10.6	34 - 125	30	
4-Nitrophenol	2500	1720	69.0	2500	1540	61.4	11.6	25 - 138	30	
Acenaphthene	2500	1350	54.1	2500	1340	53.5	1.18	46 - 125	30	
Acenaphthylene	2500	1290	51.5	2500	1330	53.4	3.65	44 - 125	30	
Anthracene	2500	1550	61.9	2500	1410	56.4	9.28	53 - 125	30	
Benzo(a)anthracene	2500	1860	74.3	2500	1600	64.2	14.7	52 - 125	30	
Benzo(a)pyrene	2500	1950	78.1	2500	1670	66.6	15.8	50 - 125	30	
Benzo(b)fluoranthene	2500	1980	79.3	2500	1700	68.0	15.3	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1810	72.3	2500	1540	61.6	16.1	38 - 126	30	
Benzo(k)fluoranthene	2500	1960	78.6	2500	1680	67.3	15.5	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	1250	49.8	2500	1300	52.0	4.24	43 - 125	30	
Bis(2-Chloroethyl)ether	2500	1370	54.8	2500	1440	57.5	4.83	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1420	56.8	2500	1460	58.4	2.81	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	2010	80.3	2500	1760	70.4	13.2	47 - 127	30	
Butyl benzyl phthalate	2500	1980	79.0	2500	1740	69.5	12.8	49 - 125	30	
Carbazole	2500	1630	65.3	2500	1410	56.5	14.4	40 - 135	30	
Chrysene	2500	1910	76.6	2500	1640	65.5	15.7	53 - 125	30	
Dibenz(a,h)anthracene	2500	1770	70.9	2500	1490	59.5	17.4	41 - 125	30	
Dibenzofuran	2500	1300	52.2	2500	1340	53.5	2.50	51 - 125	30	

LCS_LCS2 - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050189 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271375 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271231-02 LCS File ID: 12M21759 Run Date: 05/15/2008 13:40
Sample ID: WG271231-03 LCS2 File ID: 12M21760 Run Date: 05/15/2008 14:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1610	64.5	2500	1510	60.5	6.37	50 - 125	30	
Dimethyl phthalate	2500	1440	57.4	2500	1440	57.7	0.597	49 - 125	30	
Di-N-Butylphthalate	2500	1670	66.7	2500	1480	59.0	12.2	56 - 125	30	
Di-n-octyl phthalate	2500	2040	81.6	2500	1820	73.0	11.1	41 - 132	30	
Fluoranthene	2500	1800	71.9	2500	1560	62.3	14.4	54 - 125	30	
Fluorene	2500	1330	53.3	2500	1330	53.3	0.0804	49 - 125	30	
Hexachlorobenzene	2500	1570	62.9	2500	1470	58.7	6.79	47 - 125	30	
Hexachlorobutadiene	2500	1490	59.5	2500	1530	61.1	2.62	40 - 125	30	
Hexachlorocyclopentadiene	2500	1300	51.9	2500	1330	53.1	2.44	10 - 150	30	
Hexachloroethane	2500	1430	57.2	2500	1450	58.0	1.50	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1860	74.5	2500	1590	63.4	16.0	38 - 125	30	
Isophorone	2500	1360	54.2	2500	1410	56.4	3.86	43 - 125	30	
Naphthalene	2500	1230	49.0	2500	1230	49.3	0.485	40 - 125	30	
Nitrobenzene	2500	1380	55.1	2500	1420	56.7	2.81	41 - 125	30	
N-Nitrosodiphenylamine	2500	1160	46.3	2500	1110	44.3	4.42	49 - 125	30	*
N-Nitrosodipropylamine	2500	1350	54.1	2500	1400	56.1	3.75	40 - 125	30	
Pentachlorophenol	2500	1640	65.5	2500	1500	59.9	9.02	25 - 125	30	
Phenanthrene	2500	1490	59.6	2500	1370	54.9	8.35	50 - 125	30	
Phenol	2500	1350	54.0	2500	1380	55.0	1.88	39 - 125	30	
Pyrene	2500	1920	76.6	2500	1620	64.7	16.8	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	54.6	54.6	25 - 121	PASS
Phenol-d5	55.5	56.1	24 - 113	PASS
Nitrobenzene-d5	58.0	59.0	23 - 120	PASS
2-Fluorobiphenyl	50.7	52.1	30 - 115	PASS
2,4,6-Tribromophenol	62.8	57.5	19 - 122	PASS
p-Terphenyl-d14	78.0	65.0	18 - 137	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1095136
Report generated: 05/16/2008 14:07

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L08050189 Cal ID: HPMS12-25-APR-08 Worknum: WG271196

Instrument ID: HPMS12 Contract #: Prep Method: 3545

Parent ID: L08050189-01 File ID: 12M21722 Dil: 5 Method: 8270C

Sample ID: L08050189-02 MS File ID: 12M21723 Dil: 5 Matrix: Soil

Sample ID: L08050189-03 MSD File ID: 12M21762 Dil: 5 Units: ug/kg

Percent Solid: 85.7

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
2,4,5-Trichlorophenol	U	2800	1090	39.0	2880	1250	43.5	13.6	49 - 125	30	*
2,4,6-Trichlorophenol	U	2800	0	0	2880	833	28.9	200	43 - 125	30	*#
2,4-Dichlorophenol	U	2800	1140	40.7	2880	929	32.2	20.5	45 - 125	30	*
2,4-Dimethylphenol	U	2800	1120	39.8	2880	1010	34.9	10.5	32 - 125	30	
2,4-Dinitrophenol	U	2800	0	0	2880	0	0	NA	25 - 132	30	*#
2,4-Dinitrotoluene	U	2800	2090	74.6	2880	1970	68.4	5.97	48 - 125	30	
2,6-Dinitrotoluene	U	2800	1790	64.0	2880	1530	53.0	16.0	48 - 125	30	
2-Chloronaphthalene	U	2800	1330	47.3	2880	1230	42.6	7.78	45 - 125	30	*
2-Chlorophenol	U	2800	1360	48.6	2880	1240	42.9	9.62	44 - 125	30	*
2-Methylnaphthalene	U	2800	1410	50.3	2880	1330	46.1	5.84	47 - 125	30	*
2-Methylphenol	U	2800	1350	48.3	2880	1160	40.2	15.5	40 - 125	30	
2-Nitroaniline	U	2800	0	0	2880	0	0	NA	44 - 125	30	*#
2-Nitrophenol	U	2800	1360	48.6	2880	1630	56.7	18.0	42 - 125	30	
3,3'-Dichlorobenzidine	U	2800	3280	117	2880	2750	95.5	17.4	20 - 128	30	
3-,4-Methylphenol	U	2800	1460	52.0	2880	1230	42.6	16.9	50 - 120	30	*
3-Nitroaniline	U	2800	0	0	2880	0	0	NA	27 - 125	30	*#
4,6-Dinitro-2-methylphenol	U	2800	0	0	2880	0	0	NA	29 - 137	30	*#
4-Bromophenyl phenyl ether	U	2800	1780	63.4	2880	1570	54.6	12.2	46 - 125	30	
4-Chloro-3-methylphenol	U	2800	1730	61.7	2880	1420	49.2	19.8	46 - 125	30	
4-Chloroaniline	U	2800	1260	45.1	2880	1090	37.7	15.2	20 - 120	30	
4-Chlorophenyl phenyl ether	U	2800	1760	62.7	2880	1590	55.2	9.85	47 - 125	30	
4-Nitroaniline	U	2800	0	0	2880	0	0	NA	34 - 125	30	*#
4-Nitrophenol	U	2800	0	0	2880	0	0	NA	25 - 138	30	*#
Acenaphthene	U	2800	1420	50.7	2880	1400	48.4	1.74	46 - 125	30	
Acenaphthylene	U	2800	1570	56.0	2880	1520	52.9	2.94	44 - 125	30	
Anthracene	U	2800	2290	81.6	2880	2180	75.5	4.88	53 - 125	30	
Benzo(a)anthracene	U	2800	3100	111	2880	2750	95.6	12.0	52 - 125	30	
Benzo(a)pyrene	U	2800	3060	109	2880	2730	94.7	11.3	50 - 125	30	
Benzo(b)fluoranthene	U	2800	3350	119	2880	2770	96.0	19.1	45 - 125	30	
Benzo(g,h,i)Perylene	U	2800	1830	65.1	2880	2460	85.4	29.7	38 - 126	30	
Benzo(k)fluoranthene	U	2800	3240	116	2880	2720	94.2	17.7	45 - 125	30	
Bis(2-Chloroethoxy)Methane	U	2800	1400	49.9	2880	1220	42.3	13.7	43 - 125	30	*
Bis(2-Chloroethyl)ether	U	2800	1380	49.3	2880	1270	44.1	8.40	38 - 125	30	
bis(2-Chloroisopropyl)ether	U	2800	1570	56.0	2880	1420	49.3	9.82	25 - 125	30	
bis(2-Ethylhexyl)phthalate	U	2800	3150	112	2880	2860	99.1	9.90	47 - 127	30	
Butyl benzyl phthalate	U	2800	2940	105	2880	2810	97.4	4.45	49 - 125	30	
Carbazole	U	2800	2440	87.1	2880	2230	77.5	8.89	40 - 135	30	
Chrysene	U	2800	3150	112	2880	2880	100	8.90	53 - 125	30	
Dibenz(a,h)anthracene	U	2800	2430	86.8	2880	2760	95.9	12.7	41 - 125	30	
Dibenzofuran	U	2800	1730	61.7	2880	1620	56.2	6.59	51 - 125	30	
Diethyl phthalate	U	2800	1900	67.7	2880	1880	65.1	1.05	50 - 125	30	

MS_MSD - Modified 03/06/2008

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Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L08050189 Cal ID: HPMS12 25-APR-08 Worknum: WG271196

Instrument ID: HPMS12 Contract #: Prep Method: 3545

Parent ID: L08050189-01 File ID: 12M21722 Dil: 5 Method: 8270C

Sample ID: L08050189-02 MS File ID: 12M21723 Dil: 5 Matrix: Soil

Sample ID: L08050189-03 MSD File ID: 12M21762 Dil: 5 Units: ug/kg

Percent Solid: 85.7

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Dimethyl phthalate	U	2800	1620	57.8	2880	1620	56.4	0.269	49 - 125	30	
Di-N-Butylphthalate	U	2800	2190	78.1	2880	2210	76.7	1.02	56 - 125	30	
Di-n-octyl phthalate	U	2800	4100	146	2880	3270	114	22.5	41 - 132	30	*
Fluoranthene	U	2800	2830	101	2880	2650	92.1	6.49	54 - 125	30	
Fluorene	U	2800	1800	64.4	2880	1650	57.4	8.67	49 - 125	30	
Hexachlorobenzene	U	2800	2230	79.5	2880	2160	75.1	2.93	47 - 125	30	
Hexachlorobutadiene	U	2800	1570	56.0	2880	1590	55.1	1.28	40 - 125	30	
Hexachlorocyclopentadiene	U	2800	1060	37.7	2880	1450	50.3	31.4	10 - 150	30	#
Hexachloroethane	U	2800	1270	45.4	2880	1350	47.0	6.20	34 - 125	30	
Indeno(1,2,3-cd)pyrene	U	2800	2020	72.0	2880	2530	87.9	22.7	38 - 125	30	
Isophorone	U	2800	1540	55.1	2880	1370	47.4	12.1	43 - 125	30	
Naphthalene	U	2800	1370	48.8	2880	1280	44.4	6.63	40 - 125	30	
Nitrobenzene	U	2800	1460	52.1	2880	1270	44.1	13.7	41 - 125	30	
N-Nitrosodiphenylamine	U	2800	1690	60.3	2880	1510	52.3	11.4	49 - 125	30	
N-Nitrosodipropylamine	U	2800	1370	48.7	2880	1190	41.4	13.4	40 - 125	30	
Pentachlorophenol	U	2800	0	0	2880	0	0	NA	25 - 125	30	*#
Phenanthrene	U	2800	2380	85.0	2880	2200	76.3	8.05	50 - 125	30	
Phenol	U	2800	1330	47.5	2880	1110	38.6	17.9	39 - 125	30	*
Pyrene	U	2800	3360	120	2880	2830	98.3	16.9	46 - 125	30	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

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Report generated 05/16/2008 14:07

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050189
Instrument: HPMS12
Analyst: MES
Workgroup: WG269466

Tune ID: WG269466-01
Run Date: 04/25/2008
Run Time: 12:44
File ID: 12M21395
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.7	68129	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.6	73016	PASS
70.0	69.0	0	2.00	0.823	601	PASS
127	198	40.0	60.0	47.2	80904	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	171541	PASS
199	198	5.00	9.00	7.11	12203	PASS
275	198	10.0	30.0	28.8	49362	PASS
365	198	1.00	100	4.52	7750	PASS
441	443	0.0100	100	81.0	16290	PASS
442	198	40.0	100	60.4	103578	PASS
443	442	17.0	23.0	19.4	20104	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG269466-02	STD-CCV	01	04/25/2008 13:03	
WG269466-03	STD	01	04/25/2008 13:39	
WG269466-04	STD	01	04/25/2008 14:14	
WG269466-05	STD	01	04/25/2008 14:51	
WG269466-06	STD	01	04/25/2008 15:26	
WG269466-07	STD	01	04/25/2008 16:01	
WG269466-08	STD	01	04/25/2008 16:36	
WG269466-09	STD	01	04/25/2008 17:11	
WG269466-10	SSCV	01	04/25/2008 17:46	
WG269466-11	SSCV	01	04/25/2008 18:21	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1095683
Report generated 05/16/2008 14:08

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050189
Instrument: HPMS12
Analyst: CAA
Workgroup: WG271114

Tune ID: WG271114-01
Run Date: 05/13/2008
Run Time: 13:49
File ID: 12M21708
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	37.1	53648	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	39.8	57578	PASS
70.0	69.0	0	2.00	0.551	317	PASS
127	198	40.0	60.0	44.8	64709	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	144576	PASS
199	198	5.00	9.00	7.34	10616	PASS
275	198	10.0	30.0	29.4	42456	PASS
365	198	1.00	100	4.66	6743	PASS
441	443	0.0100	100	83.9	15403	PASS
442	198	40.0	100	65.1	94072	PASS
443	442	17.0	23.0	19.5	18362	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271114-02	CCV	01	05/13/2008 14:08	
WG270917-04	BLANK	01	05/13/2008 14:43	
WG270917-05	LCS	01	05/13/2008 15:18	
L08050189-04	0142-SO01-050808	01	05/13/2008 15:53	
WG270917-01	REF	01	05/13/2008 17:03	
WG270917-06	MS	01	05/13/2008 17:38	
WG270917-07	MSD	01	05/13/2008 18:12	
WG270917-02	REF	01	05/13/2008 19:59	
WG270917-08	MS	01	05/13/2008 20:34	
WG270917-09	MSD	01	05/13/2008 21:09	
L08050189-01	0143-SO01-050808	DL01	05/13/2008 21:44	
WG270917-03	REF	DL01	05/13/2008 21:44	
L08050189-02	0143-SO01-050808	DL01	05/13/2008 22:20	
WG270917-10	MS	DL01	05/13/2008 22:20	

* Sample past 12 hour tune limit

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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050189
Instrument: HPMS12
Analyst: MES
Workgroup: WG271305

Tune ID: WG271305-01
Run Date: 05/15/2008
Run Time: 12:11
File ID: 12M21756
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	47.8	52146	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	45.0	49093	PASS
70.0	69.0	0	2.00	0.633	311	PASS
127	198	40.0	60.0	44.8	48896	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	109125	PASS
199	198	5.00	9.00	6.97	7607	PASS
275	198	10.0	30.0	27.6	30144	PASS
365	198	1.00	100	5.91	6453	PASS
441	443	0.0100	100	89.4	10352	PASS
442	198	40.0	100	54.9	59869	PASS
443	442	17.0	23.0	19.3	11574	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271305-02	CCV	01	05/15/2008 12:30	
WG271231-01	BLANK	01	05/15/2008 13:05	
WG271231-02	LCS	01	05/15/2008 13:40	
WG271231-03	LCS2	01	05/15/2008 14:15	
L08050189-03	0143-SO01-050808	DL01	05/15/2008 15:27	
WG270917-11	MSD	DL01	05/15/2008 15:27	
L08050189-05	0144-SO01-050808	02	05/15/2008 16:03	
L08050189-06	0140-SO01-050808	01	05/15/2008 16:38	
L08050189-01	0143-SO01-050808	REDL1	05/15/2008 19:36	
WG270917-03	REF	DL02	05/15/2008 19:36	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050189 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.4184	12.6		
2,4-Dichlorophenol	CCC	0.3488	10.2		
2-Nitrophenol	CCC	0.1857	15.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3870	7.61		
Acenaphthene	CCC	1.193	10.8		
Benzo[a]pyrene	CCC	1.217	8.97		
Di-n-Octyl Phthalate	CCC	1.218	15.7	0.998	
Fluoranthene	CCC	1.397	7.10		
Hexachlorobutadiene	CCC	0.3276	1.94		
Pentachlorophenol	CCC	0.1518	27.4	0.996	
Phenol	CCC	1.661	4.60		
n-Nitrosodiphenylamine	CCC	0.6676	7.80		
2,4-Dinitrophenol	SPCC	0.1449	38.6		0.999
4-Nitrophenol	SPCC	0.3133	6.27		
Hexachlorocyclopentadiene	SPCC	0.4039	22.4	0.999	
n-Nitrosodipropylamine	SPCC	1.032	3.83		
2,4,5-Trichlorophenol		0.4429	11.9		
2,4-Dimethylphenol		0.3697	10.3		
2,4-Dinitrotoluene		0.3792	14.5		
2,6-Dinitrotoluene		0.2941	9.67		
2-Chloronaphthalene		1.315	3.32		
2-Chlorophenol		1.236	5.81		
2-Methylnaphthalene		0.7859	6.94		
2-Methylphenol		1.020	7.51		
2-Nitroaniline		0.3601	4.92		
3,3'-Dichlorobenzidine		0.3636	16.5	0.999	
3-,4-Methylphenol		1.298	7.04		
3-Nitroaniline		0.3089	8.98		
4,6-Dinitro-2-Methylphenol		0.1347	28.2		0.999
4-Bromophenyl Phenyl Ether		0.2811	7.81		
4-Chloroaniline		0.5825	6.96		
4-Chlorophenyl Phenyl Ether		0.8612	3.69		
4-Nitroaniline		0.3089	8.98		
Acenaphthylene		1.775	6.34		
Anthracene		1.126	9.03		
Benzo[a]anthracene		1.309	5.38		
Benzo[b]fluoranthene		1.326	8.38		
Benzo[ghi]perylene		1.106	9.48		
Benzo[k]fluoranthene		1.269	5.91		
Butyl Benzyl Phthalate		0.5165	8.89		
Carbazole		0.9738	11.7		
Chrysene		1.186	5.12		
Di-n-Butyl Phthalate		1.286	8.69		
Dibenz[ah]anthracene		1.102	24.4	0.999	
Dibenzofuran		1.704	4.05		

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050189 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.411	3.07		
Dimethylphthalate		1.337	3.14		
Fluorene		1.450	6.38		
Hexachlorobenzene		0.2639	8.27		
Hexachloroethane		0.6253	4.95		
Indeno[1,2,3-cd]pyrene		1.329	12.2		
Isophorone		0.7407	4.75		
Naphthalene		1.124	6.22		
Nitrobenzene		0.4858	5.44		
Phenanthrene		1.147	7.41		
Pyrene		1.286	5.08		
bis(2-Chloroethoxy)methane		0.4267	3.78		
bis(2-Chloroethyl)ether		0.8758	4.88		
bis(2-Chloroisopropyl)ether		1.246	2.66		
bis(2-Ethylhexyl)phthalate		0.6818	12.8		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	136367.000	0.4388	3.00	5918.00000	0.3142	10.0	23239.0000	0.3862
2,4-Dichlorophenol	50.0	158754.000	0.3588	3.00	7927.00000	0.2918	10.0	26920.0000	0.3173
2-Nitrophenol	50.0	86369.0000	0.1952	3.00	3432.00000	0.1263	10.0	14327.0000	0.1689
4-Chloro-3-Methylphenol	50.0	178838.000	0.4042	3.00	8857.00000	0.3260	10.0	30942.0000	0.3647
Acenaphthene	50.0	375627.000	1.209	3.00	18689.0000	0.9923	10.0	64516.0000	1.072
Benzo[a]pyrene	50.0	697864.000	1.374	3.00	32607.0000	1.036	10.0	123380.000	1.125
Di-n-Octyl Phthalate	50.0	749327.000	1.475	3.00	29699.0000	0.9436	10.0	111236.000	1.014
Fluoranthene	50.0	810612.000	1.296	3.00	42795.0000	1.234	10.0	154789.000	1.366
Hexachlorobutadiene	50.0	148516.000	0.3356	3.00	8617.00000	0.3172	10.0	28017.0000	0.3302
Pentachlorophenol	50.0	92466.0000	0.1479	NA	NA	NA	10.0	9878.00000	0.08720
Phenol	50.0	222209.000	1.683	3.00	12237.0000	1.552	10.0	38761.0000	1.581
n-Nitrosodiphenylamine	50.0	392845.000	0.6283	3.00	20330.0000	0.5860	10.0	72097.0000	0.6364
2,4-Dinitrophenol	50.0	39482.0000	0.1271	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	108610.000	0.3495	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	141345.000	0.4548	3.00	4274.00000	0.2269	10.0	19516.0000	0.3243
n-Nitrosodipropylamine	50.0	145764.000	1.104	3.00	7583.00000	0.9620	10.0	25176.0000	1.027
2,4,5-Trichlorophenol	50.0	144110.000	0.4637	3.00	6389.00000	0.3392	10.0	24278.0000	0.4035
2,4-Dimethylphenol	50.0	162609.000	0.3675	3.00	8024.00000	0.2954	10.0	28316.0000	0.3337
2,4-Dinitrotoluene	50.0	121879.000	0.3922	3.00	5034.00000	0.2673	10.0	20446.0000	0.3398
2,6-Dinitrotoluene	50.0	94251.0000	0.3033	3.00	4342.00000	0.2306	10.0	16831.0000	0.2797
2-Chloronaphthalene	50.0	407576.000	1.312	3.00	23579.0000	1.252	10.0	77192.0000	1.283
2-Chlorophenol	50.0	163796.000	1.241	3.00	8755.00000	1.111	10.0	29242.0000	1.193
2-Methylnaphthalene	50.0	340978.000	0.7706	3.00	19262.0000	0.7091	10.0	63484.0000	0.7482
2-Methylphenol	50.0	139033.000	1.053	3.00	7022.00000	0.8908	10.0	23075.0000	0.9411
2-Nitroaniline	50.0	122870.000	0.3954	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	252297.000	0.4242	3.00	9541.00000	0.2593	10.0	38536.0000	0.3037
3-,4-Methylphenol	50.0	174305.000	1.320	3.00	9115.00000	1.156	10.0	29102.0000	1.187
3-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	71843.0000	0.1149	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	160280.000	0.2563	3.00	8943.00000	0.2578	10.0	29851.0000	0.2635
4-Chloroaniline	50.0	256808.000	0.5804	3.00	14696.0000	0.5410	10.0	44482.0000	0.5243
4-Chlorophenyl Phenyl Ether	50.0	268008.000	0.8624	3.00	15432.0000	0.8194	10.0	49083.0000	0.8157
4-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	556722.000	1.792	3.00	30007.0000	1.593	10.0	99847.0000	1.659
Anthracene	50.0	659857.000	1.055	3.00	33177.0000	0.9564	10.0	122454.000	1.081
Benzo[a]anthracene	50.0	856517.000	1.440	3.00	44797.0000	1.217	10.0	155466.000	1.225
Benzo[b]fluoranthene	50.0	744041.000	1.465	3.00	35475.0000	1.127	10.0	137001.000	1.249
Benzo[ghi]perylene	50.0	634281.000	1.249	3.00	28793.0000	0.9148	10.0	110138.000	1.004
Benzo[k]fluoranthene	50.0	720586.000	1.418	3.00	36969.0000	1.175	10.0	135918.000	1.239
Butyl Benzyl Phthalate	50.0	353129.000	0.5938	3.00	16206.0000	0.4404	10.0	60984.0000	0.4806
Carbazole	50.0	583195.000	0.9327	3.00	27605.0000	0.7957	10.0	97064.0000	0.8567
Chrysene	50.0	780963.000	1.313	3.00	41677.0000	1.133	10.0	142455.000	1.123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	785864.000	1.257	3.00	37116.0000	1.070	10.0	136904.000	1.208
Dibenz[ah]anthracene	50.0	668824.000	1.317	3.00	15272.0000	0.4852	10.0	111770.000	1.019
Dibenzofuran	50.0	530596.000	1.707	3.00	29342.0000	1.558	10.0	100820.000	1.676
Diethylphthalate	50.0	452344.000	1.456	3.00	24871.0000	1.321	10.0	83818.0000	1.393
Dimethylphthalate	50.0	420899.000	1.354	3.00	23726.0000	1.260	10.0	78749.0000	1.309
Fluorene	50.0	454404.000	1.462	3.00	24326.0000	1.292	10.0	83747.0000	1.392
Hexachlorobenzene	50.0	147756.000	0.2363	3.00	8064.00000	0.2325	10.0	29006.0000	0.2560
Hexachloroethane	50.0	84931.0000	0.6433	3.00	4341.00000	0.5507	10.0	15476.0000	0.6312
Indeno[1,2,3-cd]pyrene	50.0	771409.000	1.519	3.00	32705.0000	1.039	10.0	128253.000	1.169
Isophorone	50.0	356238.000	0.8051	3.00	18428.0000	0.6784	10.0	61327.0000	0.7228
Naphthalene	50.0	496713.000	1.123	3.00	27895.0000	1.027	10.0	89924.0000	1.060
Nitrobenzene	50.0	230519.000	0.5210	3.00	12396.0000	0.4563	10.0	43364.0000	0.5111
Phenanthrene	50.0	673951.000	1.078	3.00	36064.0000	1.040	10.0	122363.000	1.080
Pyrene	50.0	858213.000	1.443	3.00	45464.0000	1.236	10.0	159485.000	1.257
bis(2-Chloroethoxy)methane	50.0	196099.000	0.4432	3.00	10594.0000	0.3900	10.0	36560.0000	0.4309
bis(2-Chloroethyl)ether	50.0	120076.000	0.9095	3.00	7560.00000	0.9591	10.0	21099.0000	0.8605
bis(2-Chloroisopropyl)ether	50.0	168561.000	1.277	3.00	9772.00000	1.240	10.0	31239.0000	1.274
bis(2-Ethylhexyl)phthalate	50.0	473337.000	0.7959	3.00	19278.0000	0.5239	10.0	77603.0000	0.6115

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	37239.0000	0.3892	25.0	98728.0000	0.4309	80.0	279987.000	0.4502
2,4-Dichlorophenol	15.0	43596.0000	0.3229	25.0	114408.000	0.3521	80.0	319185.000	0.3681
2-Nitrophenol	15.0	24186.0000	0.1791	25.0	61605.0000	0.1896	80.0	175038.000	0.2019
4-Chloro-3-Methylphenol	15.0	52064.0000	0.3856	25.0	127250.000	0.3916	80.0	344375.000	0.3972
Acenaphthene	15.0	108002.000	1.129	25.0	270752.000	1.182	80.0	782768.000	1.259
Benzo[a]pyrene	15.0	211381.000	1.155	25.0	535905.000	1.219	80.0	1534154.00	1.240
Di-n-Octyl Phthalate	15.0	196277.000	1.073	25.0	533784.000	1.214	80.0	1600340.00	1.293
Fluoranthene	15.0	249915.000	1.365	25.0	615392.000	1.436	80.0	1671315.00	1.481
Hexachlorobutadiene	15.0	45100.0000	0.3340	25.0	107508.000	0.3309	80.0	278572.000	0.3213
Pentachlorophenol	15.0	20553.0000	0.1123	25.0	62391.0000	0.1456	80.0	200096.000	0.1773
Phenol	15.0	63090.0000	1.595	25.0	160868.000	1.683	80.0	427551.000	1.710
n-Nitrosodiphenylamine	15.0	118973.000	0.6498	25.0	290222.000	0.6772	80.0	791950.000	0.7018
2,4-Dinitrophenol	15.0	5805.00000	0.06070	25.0	25500.0000	0.1113	80.0	104015.000	0.1673
4-Nitrophenol	15.0	28275.0000	0.2955	25.0	68859.0000	0.3005	80.0	190640.000	0.3065
Hexachlorocyclopentadiene	15.0	35338.0000	0.3694	25.0	99354.0000	0.4336	80.0	288927.000	0.4646
n-Nitrosodipropylamine	15.0	40475.0000	1.023	25.0	100435.000	1.051	80.0	258884.000	1.036
2,4,5-Trichlorophenol	15.0	40465.0000	0.4230	25.0	104764.000	0.4572	80.0	293599.000	0.4721
2,4-Dimethylphenol	15.0	51431.0000	0.3809	25.0	130875.000	0.4028	80.0	324020.000	0.3737
2,4-Dinitrotoluene	15.0	35097.0000	0.3669	25.0	91689.0000	0.4001	80.0	253364.000	0.4074
2,6-Dinitrotoluene	15.0	28223.0000	0.2950	25.0	69700.0000	0.3042	80.0	190771.000	0.3068
2-Chloronaphthalene	15.0	124189.000	1.298	25.0	302662.000	1.321	80.0	817846.000	1.315
2-Chlorophenol	15.0	46771.0000	1.182	25.0	119193.000	1.247	80.0	321563.000	1.286
2-Methylnaphthalene	15.0	100887.000	0.7471	25.0	253922.000	0.7815	80.0	705363.000	0.8136
2-Methylphenol	15.0	38574.0000	0.9750	25.0	99916.0000	1.045	80.0	265250.000	1.061
2-Nitroaniline	15.0	33956.0000	0.3549	25.0	82121.0000	0.3584	80.0	218250.000	0.3509
3,3'-Dichlorobenzidine	15.0	67580.0000	0.3290	25.0	185573.000	0.3758	80.0	538090.000	0.3943
3-,4-Methylphenol	15.0	50298.0000	1.271	25.0	124501.000	1.302	80.0	338084.000	1.352
3-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
4,6-Dinitro-2-Methylphenol	15.0	14678.0000	0.08020	25.0	48640.0000	0.1135	80.0	172873.000	0.1532
4-Bromophenyl Phenyl Ether	15.0	49966.0000	0.2729	25.0	122137.000	0.2850	80.0	332607.000	0.2947
4-Chloroaniline	15.0	75575.0000	0.5597	25.0	190168.000	0.5853	80.0	521274.000	0.6012
4-Chlorophenyl Phenyl Ether	15.0	82230.0000	0.8595	25.0	200371.000	0.8745	80.0	537412.000	0.8642
4-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
Acenaphthylene	15.0	164778.000	1.722	25.0	413595.000	1.805	80.0	1135611.00	1.826
Anthracene	15.0	197050.000	1.076	25.0	491615.000	1.147	80.0	1366240.00	1.211
Benzo[a]anthracene	15.0	264299.000	1.287	25.0	650627.000	1.318	80.0	1796598.00	1.317
Benzo[b]fluoranthene	15.0	235779.000	1.289	25.0	590199.000	1.343	80.0	1595206.00	1.289
Benzo[ghi]perylene	15.0	196842.000	1.076	25.0	499944.000	1.137	80.0	1411076.00	1.140
Benzo[k]fluoranthene	15.0	224378.000	1.226	25.0	553580.000	1.259	80.0	1553835.00	1.256
Butyl Benzyl Phthalate	15.0	102371.000	0.4984	25.0	253670.000	0.5137	80.0	713612.000	0.5229
Carbazole	15.0	171716.000	0.9379	25.0	428714.000	1.000	80.0	1208224.00	1.071
Chrysene	15.0	235937.000	1.149	25.0	579470.000	1.174	80.0	1618976.00	1.186

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	232437.000	1.270	25.0	563217.000	1.314	80.0	1547150.00	1.371
Dibenz[ah]anthracene	15.0	200539.000	1.096	25.0	505358.000	1.150	80.0	1505496.00	1.217
Dibenzofuran	15.0	162303.000	1.697	25.0	394959.000	1.724	80.0	1074465.00	1.728
Diethylphthalate	15.0	137877.000	1.441	25.0	328909.000	1.435	80.0	868238.000	1.396
Dimethylphthalate	15.0	127130.000	1.329	25.0	312530.000	1.364	80.0	830445.000	1.335
Fluorene	15.0	134267.000	1.403	25.0	330753.000	1.444	80.0	920136.000	1.480
Hexachlorobenzene	15.0	48740.0000	0.2662	25.0	113654.000	0.2652	80.0	311857.000	0.2764
Hexachloroethane	15.0	25151.0000	0.6357	25.0	61542.0000	0.6437	80.0	158937.000	0.6357
Indeno[1,2,3-cd]pyrene	15.0	230092.000	1.257	25.0	599639.000	1.364	80.0	1731397.00	1.399
Isophorone	15.0	99381.0000	0.7360	25.0	245328.000	0.7550	80.0	642420.000	0.7410
Naphthalene	15.0	146165.000	1.082	25.0	361079.000	1.111	80.0	1006802.00	1.161
Nitrobenzene	15.0	69269.0000	0.5130	25.0	159759.000	0.4917	80.0	402450.000	0.4642
Phenanthrene	15.0	202627.000	1.107	25.0	493338.000	1.151	80.0	1370037.00	1.214
Pyrene	15.0	259537.000	1.264	25.0	637423.000	1.291	80.0	1725768.00	1.265
bis(2-Chloroethoxy)methane	15.0	57561.0000	0.4263	25.0	138912.000	0.4275	80.0	369360.000	0.4260
bis(2-Chloroethyl)ether	15.0	35230.0000	0.8905	25.0	82944.0000	0.8676	80.0	210681.000	0.8427
bis(2-Chloroisopropyl)ether	15.0	50752.0000	1.283	25.0	121163.000	1.267	80.0	303941.000	1.216
bis(2-Ethylhexyl)phthalate	15.0	131164.000	0.6386	25.0	339497.000	0.6876	80.0	972062.000	0.7123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	377204.000	0.4596	120	482469.000	0.4781
2,4-Dichlorophenol	100	440715.000	0.3829	120	570611.000	0.3965
2-Nitrophenol	100	239517.000	0.2081	120	311803.000	0.2166
4-Chloro-3-Methylphenol	100	469454.000	0.4079	120	602506.000	0.4186
Acenaphthene	100	1079901.00	1.316	120	1396579.00	1.384
Benzo[a]pyrene	100	2086082.00	1.270	120	2632858.00	1.319
Di-n-Octyl Phthalate	100	2184046.00	1.329	120	2800418.00	1.403
Fluoranthene	100	2215701.00	1.492	120	2755326.00	1.509
Hexachlorobutadiene	100	373087.000	0.3242	120	470703.000	0.3270
Pentachlorophenol	100	283307.000	0.1908	120	367345.000	0.2012
Phenol	100	580096.000	1.707	120	749079.000	1.774
n-Nitrosodiphenylamine	100	1066689.00	0.7182	120	1356134.00	0.7428
2,4-Dinitrophenol	100	157333.000	0.1917	120	213452.000	0.2115
4-Nitrophenol	100	252092.000	0.3072	120	323723.000	0.3208
Hexachlorocyclopentadiene	100	387575.000	0.4723	120	489911.000	0.4855
n-Nitrosodipropylamine	100	344175.000	1.013	120	438122.000	1.037
2,4,5-Trichlorophenol	100	394373.000	0.4806	120	508384.000	0.5038
2,4-Dimethylphenol	100	456542.000	0.3967	120	585962.000	0.4071
2,4-Dinitrotoluene	100	344032.000	0.4192	120	444879.000	0.4409
2,6-Dinitrotoluene	100	255107.000	0.3109	120	325195.000	0.3223
2-Chloronaphthalene	100	1099288.00	1.340	120	1413873.00	1.401
2-Chlorophenol	100	439835.000	1.294	120	563310.000	1.334
2-Methylnaphthalene	100	970956.000	0.8437	120	1256929.00	0.8733
2-Methylphenol	100	365442.000	1.076	120	472314.000	1.118
2-Nitroaniline	100	284645.000	0.3468	120	357321.000	0.3541
3,3'-Dichlorobenzidine	100	733235.000	0.4024	120	940493.000	0.4198
3-,4-Methylphenol	100	465577.000	1.370	120	602765.000	1.427
3-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
4,6-Dinitro-2-Methylphenol	100	246356.000	0.1659	120	329033.000	0.1802
4-Bromophenyl Phenyl Ether	100	451448.000	0.3040	120	574210.000	0.3145
4-Chloroaniline	100	718485.000	0.6243	120	926485.000	0.6437
4-Chlorophenyl Phenyl Ether	100	723357.000	0.8814	120	920890.000	0.9126
4-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
Acenaphthylene	100	1529219.00	1.863	120	1960028.00	1.942
Anthracene	100	1822066.00	1.227	120	2287957.00	1.253
Benzo[a]anthracene	100	2405433.00	1.320	120	3012702.00	1.345
Benzo[b]fluoranthene	100	2336636.00	1.422	120	2840065.00	1.423
Benzo[ghi]perylene	100	1892297.00	1.152	120	2342145.00	1.173
Benzo[k]fluoranthene	100	2043397.00	1.244	120	2665882.00	1.335
Butyl Benzyl Phthalate	100	970519.000	0.5326	120	1230823.00	0.5494
Carbazole	100	1604741.00	1.081	120	2037702.00	1.116
Chrysene	100	2170926.00	1.191	120	2734443.00	1.221

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050189 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2062132.00	1.389	120	2572387.00	1.409
Dibenz[ah]anthracene	100	2048294.00	1.247	120	2575721.00	1.290
Dibenzofuran	100	1433623.00	1.747	120	1812183.00	1.796
Diethylphthalate	100	1153162.00	1.405	120	1453341.00	1.440
Dimethylphthalate	100	1103240.00	1.344	120	1416244.00	1.404
Fluorene	100	1257267.00	1.532	120	1611047.00	1.597
Hexachlorobenzene	100	420081.000	0.2828	120	539403.000	0.2955
Hexachloroethane	100	211552.000	0.6226	120	270148.000	0.6397
Indeno[1,2,3-cd]pyrene	100	2335820.00	1.422	120	2927052.00	1.466
Isophorone	100	848363.000	0.7371	120	1079868.00	0.7503
Naphthalene	100	1372849.00	1.193	120	1779526.00	1.236
Nitrobenzene	100	535447.000	0.4652	120	667562.000	0.4638
Phenanthrene	100	1836910.00	1.237	120	2321323.00	1.272
Pyrene	100	2295342.00	1.260	120	2860075.00	1.277
bis(2-Chloroethoxy)methane	100	495133.000	0.4302	120	633036.000	0.4398
bis(2-Chloroethyl)ether	100	281115.000	0.8273	120	358453.000	0.8488
bis(2-Chloroisopropyl)ether	100	407669.000	1.200	120	512593.000	1.214
bis(2-Ethylhexyl)phthalate	100	1331118.00	0.7305	120	1689210.00	0.7541

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050189 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	53700	ug/L	0.449	7.40	25	
2,4-Dichlorophenol	CCC	50000	49600	ug/L	0.346	0.900	25	
2-Nitrophenol	CCC	50000	50700	ug/L	0.207	1.50	25	
Benzo[a]pyrene	CCC	50000	56600	ug/L	1.38	13.2	25	
Di-n-Octyl Phthalate	CCC	50000	51100	ug/L	1.36	2.20	25	
Fluoranthene	CCC	50000	57200	ug/L	1.60	14.5	25	
Hexachlorobutadiene	CCC	50000	54300	ug/L	0.356	8.60	25	
Pentachlorophenol	CCC	50000	57800	ug/L	0.205	15.5	25	
Phenol	CCC	50000	49100	ug/L	1.63	1.80	25	
2,4-Dinitrophenol	SPCC	50000	62900	ug/L	0.186	25.8	25	*
4-Nitrophenol	SPCC	50000	44900	ug/L	0.282	10.2	25	
Hexachlorocyclopentadiene	SPCC	50000	47600	ug/L	0.437	4.80	25	
2,4,5-Trichlorophenol		50000	53500	ug/L	0.474	7.00	25	
2,4-Dinitrotoluene		50000	57500	ug/L	0.436	15.0	25	
2,6-Dinitrotoluene		50000	54700	ug/L	0.322	9.30	25	
2-Chloronaphthalene		50000	46100	ug/L	1.21	7.70	25	
2-Chlorophenol		50000	49800	ug/L	1.23	0.400	25	
2-Methylnaphthalene		50000	53500	ug/L	0.840	6.90	25	
4,6-Dinitro-2-Methylphenol		50000	61500	ug/L	0.165	23.1	25	
4-Chloroaniline		50000	51100	ug/L	0.596	2.30	25	
4-Chlorophenyl Phenyl Ether		50000	48600	ug/L	0.837	2.90	25	
Anthracene		50000	56000	ug/L	1.26	12.1	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	7.90	25	
Benzo[b]fluoranthene		50000	54100	ug/L	1.43	8.20	25	
Benzo[k]fluoranthene		50000	55600	ug/L	1.41	11.3	25	
bis(2-Chloroethoxy)methane		50000	48400	ug/L	0.413	3.30	25	
bis(2-Chloroisopropyl)ether		50000	45300	ug/L	1.13	9.40	25	
bis(2-Ethylhexyl)phthalate		50000	53800	ug/L	0.733	7.50	25	
Butyl Benzyl Phthalate		50000	54000	ug/L	0.558	8.00	25	
Carbazole		50000	53800	ug/L	1.05	7.60	25	
Chrysene		50000	53500	ug/L	1.27	6.90	25	
Dibenz[ah]anthracene		50000	51200	ug/L	1.27	2.30	25	
Dibenzofuran		50000	53400	ug/L	1.82	6.70	25	
Hexachlorobenzene		50000	56800	ug/L	0.300	13.6	25	
Hexachloroethane		50000	49300	ug/L	0.617	1.40	25	
Isophorone		50000	55400	ug/L	0.820	10.7	25	
Naphthalene		50000	53000	ug/L	1.19	6.10	25	
Nitrobenzene		50000	47600	ug/L	0.463	4.80	25	
Phenanthrene		50000	54500	ug/L	1.25	8.90	25	
Pyrene		50000	55800	ug/L	1.44	11.6	25	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1095682
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/13/2008 Sample ID: WG271114-02
Instrument ID: HPMS12 Run Time: 14:08 Method: 8270C
File ID: 12M21709 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG271196 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	54000	ug/L	0.452	8.05	20	
2,4-Dichlorophenol	CCC	50000	51900	ug/L	0.362	3.77	20	
2-Nitrophenol	CCC	50000	52000	ug/L	0.213	3.99	20	
4-Chloro-3-Methylphenol	CCC	50000	53200	ug/L	0.412	6.40	20	
Acenaphthene	CCC	50000	54300	ug/L	1.30	8.65	20	
Benzo[a]pyrene	CCC	50000	57800	ug/L	1.41	15.7	20	
Di-n-Octyl Phthalate	CCC	50000	55800	ug/L	1.50	11.5	20	
Fluoranthene	CCC	50000	48500	ug/L	1.35	3.06	20	
Hexachlorobutadiene	CCC	50000	54500	ug/L	0.357	8.99	20	
n-Nitrosodiphenylamine	CCC	50000	47900	ug/L	0.640	4.20	20	
Pentachlorophenol	CCC	50000	43400	ug/L	0.145	13.3	20	
Phenol	CCC	50000	52000	ug/L	1.73	3.94	20	
1,4-Dichlorobenzene	CCC	50000	51100	ug/L	1.56	2.12	25	
2,4-Dinitrophenol	SPCC	50000	52500	ug/L	0.142	5.04	25	
4-Nitrophenol	SPCC	50000	57400	ug/L	0.360	14.9	25	
Hexachlorocyclopentadiene	SPCC	50000	55100	ug/L	0.511	10.2	25	
n-Nitrosodipropylamine	SPCC	50000	52500	ug/L	1.08	5.00	25	
2,4,5-Trichlorophenol		50000	54600	ug/L	0.483	9.10	25	
2,4-Dimethylphenol		50000	48400	ug/L	0.358	3.28	25	
2,4-Dinitrotoluene		50000	53900	ug/L	0.409	7.88	25	
2,6-Dinitrotoluene		50000	52100	ug/L	0.306	4.17	25	
2-Chloronaphthalene		50000	51400	ug/L	1.35	2.71	25	
2-Chlorophenol		50000	52200	ug/L	1.29	4.34	25	
2-Methylnaphthalene		50000	50500	ug/L	0.794	1.08	25	
2-Methylphenol		50000	53200	ug/L	1.09	6.42	25	
2-Nitroaniline		50000	56800	ug/L	0.409	13.7	25	
3,3'-Dichlorobenzidine		50000	51800	ug/L	0.415	3.51	25	
3-,4-Methylphenol		50000	51000	ug/L	1.32	1.91	25	
3-Nitroaniline		50000	49600	ug/L	0.306	0.877	25	
4,6-Dinitro-2-Methylphenol		50000	55700	ug/L	0.144	11.4	25	
4-Bromophenyl Phenyl Ether		50000	48300	ug/L	0.271	3.49	25	
4-Chloroaniline		50000	51600	ug/L	0.601	3.22	25	
4-Chlorophenyl Phenyl Ether		50000	51000	ug/L	0.879	2.03	25	
4-Nitroaniline		50000	49600	ug/L	0.306	0.877	25	
Acenaphthylene		50000	51700	ug/L	1.84	3.47	25	
Anthracene		50000	48200	ug/L	1.08	3.66	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	8.07	25	
Benzo[b]fluoranthene		50000	56300	ug/L	1.49	12.6	25	
Benzo[ghi]perylene		50000	57100	ug/L	1.26	14.2	25	
Benzo[k]fluoranthene		50000	55800	ug/L	1.42	11.5	25	
bis(2-Chloroethoxy)methane		50000	50800	ug/L	0.434	1.66	25	
bis(2-Chloroethyl)ether		50000	51500	ug/L	0.903	3.08	25	

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/13/2008 Sample ID: WG271114-02
Instrument ID: HPMS12 Run Time: 14:08 Method: 8270C
File ID: 12M21709 Analyst: CAA QC Key: DOWWV2006
Workgroup (AAB#): WG271196 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	51200	ug/L	1.28	2.39	25	
bis(2-Ethylhexyl)phthalate		50000	55200	ug/L	0.753	10.5	25	
Butyl Benzyl Phthalate		50000	53100	ug/L	0.549	6.27	25	
Carbazole		50000	48700	ug/L	0.948	2.62	25	
Chrysene		50000	55000	ug/L	1.30	9.93	25	
Dibenz[ah]anthracene		50000	54800	ug/L	1.36	9.58	25	
Dibenzofuran		50000	50800	ug/L	1.73	1.54	25	
Diethylphthalate		50000	51700	ug/L	1.46	3.34	25	
Dimethylphthalate		50000	51200	ug/L	1.37	2.47	25	
Di-n-Butyl Phthalate		50000	48100	ug/L	1.24	3.73	25	
Fluorene		50000	52300	ug/L	1.52	4.65	25	
Hexachlorobenzene		50000	49700	ug/L	0.262	0.605	25	
Hexachloroethane		50000	53600	ug/L	0.671	7.25	25	
Indeno[1,2,3-cd]pyrene		50000	58500	ug/L	1.56	17.1	25	
Isophorone		50000	52100	ug/L	0.771	4.10	25	
Naphthalene		50000	51900	ug/L	1.17	3.83	25	
Nitrobenzene		50000	54900	ug/L	0.534	9.82	25	
Phenanthrene		50000	47900	ug/L	1.10	4.30	25	
Pyrene		50000	52300	ug/L	1.35	4.67	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/15/2008 Sample ID: WG271305-02
Instrument ID: HPMS12 Run Time: 12:30 Method: 8270C
File ID: 12M21757 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271375 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	54000	ug/L	0.452	7.93	20	
2,4-Dichlorophenol	CCC	50000	52600	ug/L	0.367	5.14	20	
2-Nitrophenol	CCC	50000	50100	ug/L	0.205	0.261	20	
4-Chloro-3-Methylphenol	CCC	50000	55500	ug/L	0.430	11.1	20	
Acenaphthene	CCC	50000	55600	ug/L	1.33	11.2	20	
Benzo[a]pyrene	CCC	50000	56800	ug/L	1.38	13.6	20	
Di-n-Octyl Phthalate	CCC	50000	59900	ug/L	1.61	19.9	20	
Fluoranthene	CCC	50000	49700	ug/L	1.39	0.613	20	
Hexachlorobutadiene	CCC	50000	58400	ug/L	0.383	16.8	20	
n-Nitrosodiphenylamine	CCC	50000	46500	ug/L	0.621	6.94	20	
Pentachlorophenol	CCC	50000	43500	ug/L	0.146	13.0	20	
Phenol	CCC	50000	51600	ug/L	1.71	3.17	20	
1,4-Dichlorobenzene	CCC	50000	50400	ug/L	1.54	0.728	25	
2,4-Dinitrophenol	SPCC	50000	56800	ug/L	0.159	13.6	25	
4-Nitrophenol	SPCC	50000	59400	ug/L	0.372	18.7	25	
Hexachlorocyclopentadiene	SPCC	50000	55100	ug/L	0.511	10.2	25	
n-Nitrosodipropylamine	SPCC	50000	62200	ug/L	1.28	24.3	25	
2,4,5-Trichlorophenol		50000	53400	ug/L	0.473	6.86	25	
2,4-Dimethylphenol		50000	47300	ug/L	0.350	5.35	25	
2,4-Dinitrotoluene		50000	54400	ug/L	0.413	8.82	25	
2,6-Dinitrotoluene		50000	52800	ug/L	0.311	5.57	25	
2-Chloronaphthalene		50000	50200	ug/L	1.32	0.486	25	
2-Chlorophenol		50000	50600	ug/L	1.25	1.19	25	
2-Methylnaphthalene		50000	51600	ug/L	0.812	3.30	25	
2-Methylphenol		50000	53800	ug/L	1.10	7.69	25	
2-Nitroaniline		50000	61600	ug/L	0.444	23.3	25	
3,3'-Dichlorobenzidine		50000	51400	ug/L	0.413	2.89	25	
3-,4-Methylphenol		50000	51200	ug/L	1.33	2.48	25	
3-Nitroaniline		50000	49000	ug/L	0.303	1.93	25	
4,6-Dinitro-2-Methylphenol		50000	57700	ug/L	0.151	15.3	25	
4-Bromophenyl Phenyl Ether		50000	47800	ug/L	0.269	4.30	25	
4-Chloroaniline		50000	51000	ug/L	0.594	2.00	25	
4-Chlorophenyl Phenyl Ether		50000	52300	ug/L	0.901	4.62	25	
4-Nitroaniline		50000	49000	ug/L	0.303	1.93	25	
Acenaphthylene		50000	51000	ug/L	1.81	1.91	25	
Anthracene		50000	47900	ug/L	1.08	4.14	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	8.04	25	
Benzo[b]fluoranthene		50000	55500	ug/L	1.47	11.0	25	
Benzo[ghi]perylene		50000	54500	ug/L	1.21	9.09	25	
Benzo[k]fluoranthene		50000	57500	ug/L	1.46	15.1	25	
bis(2-Chloroethoxy)methane		50000	51500	ug/L	0.440	3.08	25	
bis(2-Chloroethyl)ether		50000	55600	ug/L	0.974	11.3	25	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050189 Run Date: 05/15/2008 Sample ID: WG271305-02
Instrument ID: HPMS12 Run Time: 12:30 Method: 8270C
File ID: 12M21757 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271375 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	56400	ug/L	1.41	12.8	25	
bis(2-Ethylhexyl)phthalate		50000	59800	ug/L	0.815	19.5	25	
Butyl Benzyl Phthalate		50000	57900	ug/L	0.598	15.8	25	
Carbazole		50000	47700	ug/L	0.928	4.68	25	
Chrysene		50000	54900	ug/L	1.30	9.75	25	
Dibenz[ah]anthracene		50000	53800	ug/L	1.34	7.51	25	
Dibenzofuran		50000	51800	ug/L	1.76	3.51	25	
Diethylphthalate		50000	55700	ug/L	1.57	11.3	25	
Dimethylphthalate		50000	54000	ug/L	1.44	7.99	25	
Di-n-Butyl Phthalate		50000	51000	ug/L	1.31	2.07	25	
Fluorene		50000	55200	ug/L	1.60	10.5	25	
Hexachlorobenzene		50000	48200	ug/L	0.255	3.53	25	
Hexachloroethane		50000	59600	ug/L	0.746	19.3	25	
Indeno[1,2,3-cd]pyrene		50000	57800	ug/L	1.54	15.7	25	
Isophorone		50000	56500	ug/L	0.837	12.9	25	
Naphthalene		50000	51200	ug/L	1.15	2.32	25	
Nitrobenzene		50000	58400	ug/L	0.568	16.9	25	
Phenanthrene		50000	47300	ug/L	1.09	5.37	25	
Pyrene		50000	52100	ug/L	1.34	4.16	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1094190
Report generated 05/16/2008 14:09

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189
Instrument ID: HPMS12
Workgroup (AAB#): WG271196

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	105623	248605	475757	353994	406408	500222
Upper Limit	NA	NA	211246	497210	951514	707988	812816	1000444
Lower Limit	NA	NA	52812	124303	237879	176997	203204	250111
L08050189-01	5.00	DL01	111040	242655	447781	366573	325171	465071
L08050189-02	5.00	DL01	114266	259151	482451	388273	335108	501215
L08050189-03	5.00	DL01	78112	186048	388496	265743	320209	363911
L08050189-04	1.00	01	82154	186127	367020	277006	306638	367659
L08050189-05	1.00	02	96945	233289	455658	320314	262695	469443
WG270917-04	1.00	01	109059	255520	493917	377590	416682	495779
WG270917-05	1.00	01	73805	175211	369281	271672	311921	347068

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189
Instrument ID: HPMS12
Workgroup (AAB#): WG271375

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	105623	248605	475757	353994	406408	500222
Upper Limit	NA	NA	211246	497210	951514	707988	812816	1000444
Lower Limit	NA	NA	52812	124303	237879	176997	203204	250111
L08050189-01	5.00	REDL1	101066	228999	448137	328289	322057	443953
L08050189-06	1.00	01	130706	306823	564787	425806	383359	588955
WG271231-01	1.00	01	70528	168369	334901	234693	268666	337853
WG271231-02	1.00	01	94072	221583	452689	340794	379570	437200
WG271231-03	1.00	01	101134	237319	499743	363658	412815	468775

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1095684
Report generated 05/16/2008 14:09

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L08050189 ICAL CCV Number:WG269466-02
Instrument ID:HPMS12 CAL ID: HPMS12-25-APR-08
Workgroup (AAB#):WG271196 Matrix:SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	9.63	13.31	17.91	11.24	20.8	14.94
Upper Limit	NA	NA	10.13	13.81	18.41	11.74	21.3	15.44
Lower Limit	NA	NA	9.13	12.81	17.41	10.74	20.3	14.44
L08050189-01	5.00	DL01	9.62	13.3	17.89	11.23	20.76	14.93
L08050189-02	5.00	DL01	9.63	13.3	17.91	11.23	20.77	14.93
L08050189-03	5.00	DL01	9.62	13.3	17.9	11.23	20.76	14.93
L08050189-04	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93
L08050189-05	1.00	02	9.62	13.3	17.9	11.23	20.76	14.92
WG270917-04	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93
WG270917-05	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1095685
Report generated: 05/16/2008 14:10

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050189
Instrument ID: HPMS12
Workgroup (AAB#): WG271375

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	9.63	13.31	17.91	11.24	20.8	14.94
Upper Limit	NA	NA	10.13	13.81	18.41	11.74	21.3	15.44
Lower Limit	NA	NA	9.13	12.81	17.41	10.74	20.3	14.44
L08050189-01	5.00	REDL1	9.62	13.3	17.89	11.23	20.76	14.93
L08050189-06	1.00	01	9.62	13.3	17.89	11.23	20.76	14.93
WG271231-01	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93
WG271231-02	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93
WG271231-03	1.00	01	9.62	13.3	17.9	11.23	20.76	14.93

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1095685
Report generated: 05/16/2008 14:10

2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271061 Analyst:DIH ADT(on):05/13/2008 10:41
Method:D2216-90 Instrument:BAL001 ADT(off):05/14/2008 10:58
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050143-01	1.3	23.24	19.45			82.73	
L08050143-02	1.29	32.86	27.57			83.24	
L08050143-03	1.29	18.38	15.51			83.21	
L08050143-04	1.29	29.82	24.8			82.40	
L08050143-05	1.29	25.44	22.33			87.12	
L08050143-06	1.28	21.67	17.99			81.95	
L08050143-07	1.3	24.75	20.75			82.94	
L08050143-08	1.31	25.39	21.37			83.31	
L08050143-09	1.29	24.28	20.54			83.73	
L08050143-10	1.29	28.15	23.81			83.84	
L08050143-11	1.28	18.12	15.76			85.99	
L08050143-12	1.29	26.54	22.9			85.58	
L08050143-13	1.29	23.17	20.42			87.43	
L08050143-14	1.3	31.75	27.61			86.40	
L08050143-15	1.29	32.57	28.26			86.22	
L08050143-16	1.3	25.76	22.6			87.08	
L08050143-17	1.3	31	28.36			91.11	
L08050143-18	1.3	23.75	21.34			89.27	
L08050143-19	1.29	39.44	37.63			95.26	
L08050143-20	1.29	39.44	37.63			95.26	
L08050143-21	1.29	39.44	37.63			95.26	
L08050143-22	1.3	32.43	30.69			94.41	
L08050143-23	1.29	21.94	19.3			87.22	
L08050143-24	1.3	35.55	30.99			86.69	
L08050143-25	1.3	24.69	21.91			88.11	
L08050143-26	1.29	37.87	36.14			95.27	
L08050143-27	1.29	26.12	23.63			89.97	
L08050143-28	1.29	16.35	14.47			87.52	
L08050143-29	1.29	23.22	19.81			84.45	
L08050143-30	1.28	31.48	27.81			87.85	
L08050143-31	1.29	27.97	23.87			84.63	
L08050143-32	1.28	20.85	18.36			87.28	
L08050143-33	1.28	20.85	18.36			87.28	
L08050143-34	1.28	20.85	18.36			87.28	
L08050160-41	1.33	23.37	20.77			88.20	
L08050169-01	1.28	40.26	28.59			70.06	
L08050169-02	1.28	28.1	21.19			74.24	
L08050184-01	1.29	25.95	21.08			80.25	
L08050184-02	1.3	47.77	36.54			75.83	
L08050189-01	1.3	22.2	19.21			85.69	
L08050189-02	1.3	22.2	19.21			85.69	
L08050189-03	1.3	22.2	19.21			85.69	
L08050189-04	1.29	34.34	29.17			84.36	

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1091952
Report generated: 05/14/2008 11:09

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271061 Analyst:DIH ADT(on):05/13/2008 10:41
Method:D2216-90 Instrument:BAL001 ADT(off):05/14/2008 10:58
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050189-05	1.3	25.92	20.37			77.46	
L08050189-06	1.29	24.48	22.13			89.87	
L08050206-01	1.29	23.19	17.19			72.60	
L08050206-02	1.28	15.83	13.05			80.89	
L08050207-01	1.3	25.86	21.79			83.43	
L08050207-02	1.3	25.86	21.79			83.43	
L08050207-03	1.3	25.86	21.79			83.43	
L08050207-04	1.3	23.52	19.88			83.62	
L08050207-05	1.29	23.5	19.5			81.99	
L08050207-07	1.28	41.45	34.11			81.73	
L08050207-09	1.28	27.47	22.75			81.98	
WG271061-01	1.3	23.24	19.45			82.73	17.27
WG271061-02	1.29	28.73	23.88			82.33	17.67
WG271061-03	1.3	25.86	21.79			83.43	16.57
WG271061-04	1.27	23.59	19.97			83.78	16.22
WG271061-05	1.28	15.83	13.05			80.89	19.11
WG271061-06	1.28	17.13	12.78			72.56	27.44

Analyst: Donna Hobson

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1091952
Report generated: 05/14/2008 11:09

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
May 29, 2008

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
AML – ANTHONY M. LONG	ASP – AARON S. PETRIE	BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS	CAH – CHARLES A. HALL
CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD	CLW – CHARISSA L. WINTERS
CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
CTB – CHRIS T. BUCINA	DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH
DR – DEANNA ROBERTS	DSF – DEBRA S. FREDERICK	ECL – ERIC C. LAWSON
ED – EMILY E. DECKER	ERE – ERIN R. ELDER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JBK – JEREMY B. KINNEY
JC – JOHN L. CONLEY	JDH – JUSTIN D. HESSON	JKP – JACQUELINE K. PARSONS
JKT – JANE K. THOMPSON	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES
KJW – KATIE J. WIEFERICH	KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN
MES – MARY E. SCHILLING	MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	NPM – NATHANIEL P. MILLER	RAH – ROY A. HALSTEAD
RB – ROBERT BUCHANAN	REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SDH – SHANA D. HINYARD	SDL – SHELLY D. LENT
SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE
TDH – TRICIA D. HUCK	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
May 29, 2008

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 04544

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2MHill

Project Contact: Paul Weber

Contact Phone #: 919-875-4311

Turn Around Requirements: Standard

Location: Tech Sch

Project ID: TC Divestiture / 371188.01.FI

Sampler (print): Patrick Kisl

Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC's	SVOC's	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
0143-5001-050806/mslmsd			5/6/08	1010	S	9		X	X	12	
0142-5001-050806				1040		4		X	X	4	
0144-5001-050806				1110		4		X	X	4	Kooby
0140-5001-050806				1145		4		X	X	4	
TB01-050808				1500	W	2		X		2	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	5/6/08	1600			5-9-08	12:00	
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:	
	5-9-08	1331		5-09-08	1330		

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

Microbac Laboratories, Inc.

SAMPLE RECEIPT FORM

158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	OHAM HILL
Workorder Number:	B
Date Received:	5-09-08
Delivered by:	( ) Fedx ( ) UPS ( ) Client (X) Courier **Time:** 13.30
Opened by:	RM
IR Temp Gun:	(X) D ( ) G
Logged by:	RLK L 08050189

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
2013	0		04544	

Inspection Checklist	**Y**	**N**	**NA**	**Discrepancy ID**
Were shipping coolers sealed?			✓	
Were custody seals intact?			✓	
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓			
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)	✓			
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?	✓			
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative:	
Client/Company:	
Person Contacted:	
Date contacted:	

Resolution/other comments:

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-07	456307	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	ORG4	12-MAY-2008 09:51	MRT	JKT
3	STORE	ORG4	A2	27-MAY-2008 12:02	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	ORG4	12-MAY-2008 09:51	MRT	JKT
3	STORE	ORG4	A2	27-MAY-2008 12:02	ERE	MRT

Samplenum	Container ID	Products
L08050189-06	456304	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050189-03	456296	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-06	456305	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	

Samplenum	Container ID	Products
L08050189-03	456295	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050189-04	456300	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

Samplenum	Container ID	Products
L08050189-01	456290	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-03	456297	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

Samplenum	Container ID	Products
L08050189-06	456306	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	PREP	W1	EXT	14-MAY-2008 11:10	CEB	ERE
6	STORE	EXT	W1	14-MAY-2008 11:24	ERE	CEB
7	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

Samplenum	Container ID	Products
L08050189-05	456301	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-02	456292	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050189-01	456291	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	PREP	W1	EXT	14-MAY-2008 11:10	CEB	ERE
6	STORE	EXT	W1	14-MAY-2008 11:24	ERE	CEB
7	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

Samplenum	Container ID	Products
L08050189-02	456294	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-04	456299	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	

Samplenum	Container ID	Products
L08050189-05	456302	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK

Samplenum	Container ID	Products
L08050189-01	456289	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:51	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050189-02	456293	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050189
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 23-MAY-2008

Samplenum	Container ID	Products
L08050189-04	456298	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:52	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:52	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	09-MAY-2008 15:02	RLK	
2	ANALYZ	V1	VOAY	09-MAY-2008 15:52	CMS	RLK
3	STORE	VOAY	A2	23-MAY-2008 09:41	ERE	MRT

Samplenum	Container ID	Products
L08050189-05	456303	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	09-MAY-2008 15:02	RLK	
2	PREP	W1	EXT	12-MAY-2008 06:50	CEB	JKT
3	STORE	EXT	W1	12-MAY-2008 09:18	JKT	CEB
4	STORE	WET	W1	14-MAY-2008 08:51	ERE	DIH
5	STORE	W1	A2	23-MAY-2008 08:49	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Quick Facts

Microbac®

Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate –Wide: 18 Divisions, 28 locations across 15 states

Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.) , in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.

Microbac®

Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

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Email: OVL@microbac.com

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Laboratory Report Number: L08050290

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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This report was reviewed on June 04, 2008.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on June 04, 2008.

David Vandenberg - Managing Director

Accrediting authority: Department of Environmental Protection (West Virginia) ID:037
This report contains a total of 208 pages.

Look closer. Go further. Do more.

Microbac REPORT L08050290
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08050290

CHAIN OF CUSTODY: The chain of custody number was 82190.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 0 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L08050290-01	0135-SO01-051308
L08050290-02	0135-SO02-051308
L08050290-03	0134-SO01-051308
L08050290-04	0125-SO01-051308
L08050290-05	0126-SO01-051308
L08050290-06	0136-SO01-051308
L08050290-07	0136-SO02-051308
L08050290-08	TB01-051408

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 16-MAY-08

Kathy Albertson

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS VOLATILE ORGANICS

Microbac Login No: L08050290

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower advisory limit in the water alternate source analyzed 04/18/08 on HPMS-6. 1,4-Dioxane exceeded the upper control limit and vinyl acetate was below the lower control limit in the soil alternate source analyzed 05/12/08 on HPMS-9. All other acceptance criteria were met.

Continuing Calibration and Tune: Vinyl acetate was below the lower control limit in the water CCV analyzed 05/23/08 on HPMS-6. Vinyl acetate was below the lower control limit in the soil CCV analyzed 05/20/08 on HPMS-9. Bromoform, 1,4-dioxane, bromomethane, and dibromochloromethane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 05/21/08 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Vinyl acetate was below the lower advisory limit in the soil LCS analyzed 05/21/08 on HPMS-9. Vinyl acetate was below the lower advisory limit in the water LCS/LCSD analyzed 05/23/08 on HPMS-6. All other acceptance criteria were met.

Matrix Spike: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: TMB

Approved: 02-JUN-08

LABORATORY REPORT

L08050290

06/02/08 13:03

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0135-SO01-051308	L08050290-01	8260B	1	14-MAY-08
0135-SO02-051308	L08050290-02	8260B	1	14-MAY-08
0134-SO01-051308	L08050290-03	8260B	1	14-MAY-08
0125-SO01-051308	L08050290-04	8260B	1	14-MAY-08
0126-SO01-051308	L08050290-05	8260B	1	14-MAY-08
0136-SO01-051308	L08050290-06	8260B	1	14-MAY-08
0136-SO02-051308	L08050290-07	8260B	1	14-MAY-08
TB01-051408	L08050290-08	8260B	1	14-MAY-08

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-01**
Client ID: **0135-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271883**
Collect Date: **05/13/2008 10:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/21/2008 16:24**
Cal Date: **05/12/2008 18:39**
Run Date: **05/21/2008 16:24**
File ID: **9M62034**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.35	0.435
1,1,2,2-Tetrachloroethane	79-34-5		U	4.35	0.435
1,1,2-Trichloroethane	79-00-5		U	4.35	0.435
1,1-Dichloroethane	75-34-3		U	4.35	0.871
1,1-Dichloroethene	75-35-4		U	4.35	0.435
1,2,4-Trichlorobenzene	120-82-1		U	4.35	0.435
1,2-Dichlorobenzene	95-50-1		U	4.35	0.435
1,2-Dichloroethane	107-06-2		U	4.35	0.435
1,2-Dichloropropane	78-87-5		U	4.35	0.435
1,3-Dichlorobenzene	541-73-1		U	4.35	0.435
1,4-Dichlorobenzene	106-46-7		U	4.35	0.435
1,4-Dioxane	123-91-1		U	1480	43.5
2-Butanone	78-93-3		U	21.8	2.18
2-Hexanone	591-78-6		U	8.71	2.18
4-Methyl-2-pentanone	108-10-1		U	8.71	2.18
Acetone	67-64-1		U	87.1	4.35
Acrylonitrile	107-13-1		U	87.1	2.18
Benzene	71-43-2		U	4.35	0.435
Bromodichloromethane	75-27-4		U	4.35	0.435
Bromoform	75-25-2		U	4.35	0.435
Bromomethane	74-83-9		U	8.71	0.871
Carbon disulfide	75-15-0		U	4.35	0.435
Carbon tetrachloride	56-23-5		U	4.35	0.435
Chlorobenzene	108-90-7		U	4.35	0.435
Dibromochloromethane	124-48-1		U	4.35	0.435
Chloroethane	75-00-3		U	8.71	0.871
Chloroform	67-66-3		U	4.35	0.435
Chloromethane	74-87-3		U	8.71	1.74
cis-1,2-Dichloroethene	156-59-2		U	4.35	0.435
cis-1,3-Dichloropropene	10061-01-5		U	4.35	0.435
Ethylbenzene	100-41-4		U	4.35	0.435
Methylene chloride	75-09-2		U	4.35	0.871
Methyltert-butyl ether	1634-04-4		U	8.71	0.435
Styrene	100-42-5		U	4.35	0.435
Tetrachloroethene	127-18-4		U	4.35	0.435
Toluene	108-88-3		U	4.35	0.435
trans-1,2-Dichloroethene	156-60-5		U	4.35	0.435
trans-1,3-Dichloropropene	10061-02-6		U	4.35	0.435
Trichloroethene	79-01-6		U	4.35	0.435
Vinyl acetate	108-05-4		U	8.71	0.871
Vinyl chloride	75-01-4		U	8.71	0.871
Xylenes	1330-20-7		U	8.71	0.435

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	94.7	70	121	
4-Bromofluorobenzene	98.6	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	102	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-02**
Client ID: **0135-SO02-051308**
Matrix: **Soil**
Workgroup Number: **WG271705**
Collect Date: **05/13/2008 10:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/20/2008 14:38**
Cal Date: **05/12/2008 18:39**
Run Date: **05/20/2008 14:38**
File ID: **9M62005**
Percent Solid: **81.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.68	0.468
1,1,2,2-Tetrachloroethane	79-34-5		U	4.68	0.468
1,1,2-Trichloroethane	79-00-5		U	4.68	0.468
1,1-Dichloroethane	75-34-3		U	4.68	0.935
1,1-Dichloroethene	75-35-4		U	4.68	0.468
1,2,4-Trichlorobenzene	120-82-1		U	4.68	0.468
1,2-Dichlorobenzene	95-50-1		U	4.68	0.468
1,2-Dichloroethane	107-06-2		U	4.68	0.468
1,2-Dichloropropane	78-87-5		U	4.68	0.468
1,3-Dichlorobenzene	541-73-1		U	4.68	0.468
1,4-Dichlorobenzene	106-46-7		U	4.68	0.468
1,4-Dioxane	123-91-1		U	1590	46.8
2-Butanone	78-93-3		U	23.4	2.34
2-Hexanone	591-78-6		U	9.35	2.34
4-Methyl-2-pentanone	108-10-1		U	9.35	2.34
Acetone	67-64-1		U	93.5	4.68
Acrylonitrile	107-13-1		U	93.5	2.34
Benzene	71-43-2		U	4.68	0.468
Bromodichloromethane	75-27-4		U	4.68	0.468
Bromoform	75-25-2		U	4.68	0.468
Bromomethane	74-83-9		U	9.35	0.935
Carbon disulfide	75-15-0		U	4.68	0.468
Carbon tetrachloride	56-23-5		U	4.68	0.468
Chlorobenzene	108-90-7		U	4.68	0.468
Dibromochloromethane	124-48-1		U	4.68	0.468
Chloroethane	75-00-3		U	9.35	0.935
Chloroform	67-66-3		U	4.68	0.468
Chloromethane	74-87-3		U	9.35	1.87
cis-1,2-Dichloroethene	156-59-2		U	4.68	0.468
cis-1,3-Dichloropropene	10061-01-5		U	4.68	0.468
Ethylbenzene	100-41-4		U	4.68	0.468
Methylene chloride	75-09-2		U	4.68	0.935
Methyltert-butyl ether	1634-04-4		U	9.35	0.468
Styrene	100-42-5		U	4.68	0.468
Tetrachloroethene	127-18-4		U	4.68	0.468
Toluene	108-88-3		U	4.68	0.468
trans-1,2-Dichloroethene	156-60-5		U	4.68	0.468
trans-1,3-Dichloropropene	10061-02-6		U	4.68	0.468
Trichloroethene	79-01-6		U	4.68	0.468
Vinyl acetate	108-05-4		U	9.35	0.935
Vinyl chloride	75-01-4		U	9.35	0.935
Xylenes	1330-20-7		U	9.35	0.468

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	91.9	70	121	
4-Bromofluorobenzene	94.9	59	113	
Dibromofluoromethane	106	65	135	
Toluene-d8	99.0	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-03	PrePrep Method:	NONE	Instrument:	HPMS9
Client ID:	0134-SO01-051308	Prep Method:	5030B	Prep Date:	05/20/2008 15:09
Matrix:	Soil	Analytical Method:	8260B	Cal Date:	05/12/2008 18:39
Workgroup Number:	WG271705	Analyst:	CMS	Run Date:	05/20/2008 15:09
Collect Date:	05/13/2008 11:20	Dilution:	1	File ID:	9M62006
Sample Tag:	01	Units:	ug/kg	Percent Solid:	86.4

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.66	0.466
1,1,2,2-Tetrachloroethane	79-34-5		U	4.66	0.466
1,1,2-Trichloroethane	79-00-5		U	4.66	0.466
1,1-Dichloroethane	75-34-3		U	4.66	0.931
1,1-Dichloroethene	75-35-4		U	4.66	0.466
1,2,4-Trichlorobenzene	120-82-1		U	4.66	0.466
1,2-Dichlorobenzene	95-50-1		U	4.66	0.466
1,2-Dichloroethane	107-06-2		U	4.66	0.466
1,2-Dichloropropane	78-87-5		U	4.66	0.466
1,3-Dichlorobenzene	541-73-1		U	4.66	0.466
1,4-Dichlorobenzene	106-46-7		U	4.66	0.466
1,4-Dioxane	123-91-1		U	1580	46.6
2-Butanone	78-93-3		U	23.3	2.33
2-Hexanone	591-78-6		U	9.31	2.33
4-Methyl-2-pentanone	108-10-1		U	9.31	2.33
Acetone	67-64-1		U	93.1	4.66
Acrylonitrile	107-13-1		U	93.1	2.33
Benzene	71-43-2		U	4.66	0.466
Bromodichloromethane	75-27-4		U	4.66	0.466
Bromoform	75-25-2		U	4.66	0.466
Bromomethane	74-83-9		U	9.31	0.931
Carbon disulfide	75-15-0		U	4.66	0.466
Carbon tetrachloride	56-23-5		U	4.66	0.466
Chlorobenzene	108-90-7		U	4.66	0.466
Dibromochloromethane	124-48-1		U	4.66	0.466
Chloroethane	75-00-3		U	9.31	0.931
Chloroform	67-66-3		U	4.66	0.466
Chloromethane	74-87-3		U	9.31	1.86
cis-1,2-Dichloroethene	156-59-2		U	4.66	0.466
cis-1,3-Dichloropropene	10061-01-5		U	4.66	0.466
Ethylbenzene	100-41-4		U	4.66	0.466
Methylene chloride	75-09-2		U	4.66	0.931
Methyltert-butyl ether	1634-04-4		U	9.31	0.466
Styrene	100-42-5		U	4.66	0.466
Tetrachloroethene	127-18-4		U	4.66	0.466
Toluene	108-88-3		U	4.66	0.466
trans-1,2-Dichloroethene	156-60-5		U	4.66	0.466
trans-1,3-Dichloropropene	10061-02-6		U	4.66	0.466
Trichloroethene	79-01-6		U	4.66	0.466
Vinyl acetate	108-05-4		U	9.31	0.931
Vinyl chloride	75-01-4		U	9.31	0.931
Xylenes	1330-20-7		U	9.31	0.466

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	93.2	70	121	
4-Bromofluorobenzene	102	59	113	
Dibromofluoromethane	108	65	135	
Toluene-d8	102	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-04**
Client ID: **0125-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271705**
Collect Date: **05/13/2008 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/20/2008 15:40**
Cal Date: **05/12/2008 18:39**
Run Date: **05/20/2008 15:40**
File ID: **9M62007**
Percent Solid: **83.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.09	0.509
1,1,2,2-Tetrachloroethane	79-34-5		U	5.09	0.509
1,1,2-Trichloroethane	79-00-5		U	5.09	0.509
1,1-Dichloroethane	75-34-3		U	5.09	1.02
1,1-Dichloroethene	75-35-4		U	5.09	0.509
1,2,4-Trichlorobenzene	120-82-1		U	5.09	0.509
1,2-Dichlorobenzene	95-50-1		U	5.09	0.509
1,2-Dichloroethane	107-06-2		U	5.09	0.509
1,2-Dichloropropane	78-87-5		U	5.09	0.509
1,3-Dichlorobenzene	541-73-1		U	5.09	0.509
1,4-Dichlorobenzene	106-46-7		U	5.09	0.509
1,4-Dioxane	123-91-1		U	1730	50.9
2-Butanone	78-93-3		U	25.4	2.54
2-Hexanone	591-78-6		U	10.2	2.54
4-Methyl-2-pentanone	108-10-1		U	10.2	2.54
Acetone	67-64-1		U	102	5.09
Acrylonitrile	107-13-1		U	102	2.54
Benzene	71-43-2		U	5.09	0.509
Bromodichloromethane	75-27-4		U	5.09	0.509
Bromoform	75-25-2		U	5.09	0.509
Bromomethane	74-83-9		U	10.2	1.02
Carbon disulfide	75-15-0		U	5.09	0.509
Carbon tetrachloride	56-23-5		U	5.09	0.509
Chlorobenzene	108-90-7		U	5.09	0.509
Dibromochloromethane	124-48-1		U	5.09	0.509
Chloroethane	75-00-3		U	10.2	1.02
Chloroform	67-66-3		U	5.09	0.509
Chloromethane	74-87-3		U	10.2	2.03
cis-1,2-Dichloroethene	156-59-2		U	5.09	0.509
cis-1,3-Dichloropropene	10061-01-5		U	5.09	0.509
Ethylbenzene	100-41-4		U	5.09	0.509
Methylene chloride	75-09-2		U	5.09	1.02
Methyltert-butyl ether	1634-04-4		U	10.2	0.509
Styrene	100-42-5		U	5.09	0.509
Tetrachloroethene	127-18-4		U	5.09	0.509
Toluene	108-88-3		U	5.09	0.509
trans-1,2-Dichloroethene	156-60-5		U	5.09	0.509
trans-1,3-Dichloropropene	10061-02-6		U	5.09	0.509
Trichloroethene	79-01-6		U	5.09	0.509
Vinyl acetate	108-05-4		U	10.2	1.02
Vinyl chloride	75-01-4		U	10.2	1.02
Xylenes	1330-20-7		U	10.2	0.509

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.6	70	121	
4-Bromofluorobenzene	95.8	59	113	
Dibromofluoromethane	106	65	135	
Toluene-d8	98.9	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-05**
Client ID: **0126-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271705**
Collect Date: **05/13/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/20/2008 16:11**
Cal Date: **05/12/2008 18:39**
Run Date: **05/20/2008 16:11**
File ID: **9M62008**
Percent Solid: **84.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.58	0.458
1,1,2,2-Tetrachloroethane	79-34-5		U	4.58	0.458
1,1,2-Trichloroethane	79-00-5		U	4.58	0.458
1,1-Dichloroethane	75-34-3	17.2		4.58	0.917
1,1-Dichloroethene	75-35-4	12.8		4.58	0.458
1,2,4-Trichlorobenzene	120-82-1		U	4.58	0.458
1,2-Dichlorobenzene	95-50-1		U	4.58	0.458
1,2-Dichloroethane	107-06-2		U	4.58	0.458
1,2-Dichloropropane	78-87-5		U	4.58	0.458
1,3-Dichlorobenzene	541-73-1		U	4.58	0.458
1,4-Dichlorobenzene	106-46-7		U	4.58	0.458
1,4-Dioxane	123-91-1		U	1560	45.8
2-Butanone	78-93-3		U	22.9	2.29
2-Hexanone	591-78-6		U	9.17	2.29
4-Methyl-2-pentanone	108-10-1		U	9.17	2.29
Acetone	67-64-1		U	91.7	4.58
Acrylonitrile	107-13-1		U	91.7	2.29
Benzene	71-43-2		U	4.58	0.458
Bromodichloromethane	75-27-4		U	4.58	0.458
Bromoform	75-25-2		U	4.58	0.458
Bromomethane	74-83-9		U	9.17	0.917
Carbon disulfide	75-15-0		U	4.58	0.458
Carbon tetrachloride	56-23-5		U	4.58	0.458
Chlorobenzene	108-90-7		U	4.58	0.458
Dibromochloromethane	124-48-1		U	4.58	0.458
Chloroethane	75-00-3		U	9.17	0.917
Chloroform	67-66-3		U	4.58	0.458
Chloromethane	74-87-3		U	9.17	1.83
cis-1,2-Dichloroethene	156-59-2		U	4.58	0.458
cis-1,3-Dichloropropene	10061-01-5		U	4.58	0.458
Ethylbenzene	100-41-4		U	4.58	0.458
Methylene chloride	75-09-2		U	4.58	0.917
Methyltert-butyl ether	1634-04-4		U	9.17	0.458
Styrene	100-42-5		U	4.58	0.458
Tetrachloroethene	127-18-4		U	4.58	0.458
Toluene	108-88-3		U	4.58	0.458
trans-1,2-Dichloroethene	156-60-5		U	4.58	0.458
trans-1,3-Dichloropropene	10061-02-6		U	4.58	0.458
Trichloroethene	79-01-6		U	4.58	0.458
Vinyl acetate	108-05-4		U	9.17	0.917
Vinyl chloride	75-01-4		U	9.17	0.917
Xylenes	1330-20-7		U	9.17	0.458

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	98.6	70	121	
4-Bromofluorobenzene	95.9	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	99.4	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-06**
Client ID: **0136-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271883**
Collect Date: **05/13/2008 14:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/21/2008 15:20**
Cal Date: **05/12/2008 18:39**
Run Date: **05/21/2008 15:20**
File ID: **9M62032**
Percent Solid: **79.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.89	0.489
1,1,2,2-Tetrachloroethane	79-34-5		U	4.89	0.489
1,1,2-Trichloroethane	79-00-5		U	4.89	0.489
1,1-Dichloroethane	75-34-3		U	4.89	0.978
1,1-Dichloroethene	75-35-4		U	4.89	0.489
1,2,4-Trichlorobenzene	120-82-1		U	4.89	0.489
1,2-Dichlorobenzene	95-50-1		U	4.89	0.489
1,2-Dichloroethane	107-06-2		U	4.89	0.489
1,2-Dichloropropane	78-87-5		U	4.89	0.489
1,3-Dichlorobenzene	541-73-1		U	4.89	0.489
1,4-Dichlorobenzene	106-46-7		U	4.89	0.489
1,4-Dioxane	123-91-1		U	1660	48.9
2-Butanone	78-93-3		U	24.4	2.44
2-Hexanone	591-78-6		U	9.78	2.44
4-Methyl-2-pentanone	108-10-1		U	9.78	2.44
Acetone	67-64-1		U	97.8	4.89
Acrylonitrile	107-13-1		U	97.8	2.44
Benzene	71-43-2		U	4.89	0.489
Bromodichloromethane	75-27-4		U	4.89	0.489
Bromoform	75-25-2		U	4.89	0.489
Bromomethane	74-83-9		U	9.78	0.978
Carbon disulfide	75-15-0		U	4.89	0.489
Carbon tetrachloride	56-23-5		U	4.89	0.489
Chlorobenzene	108-90-7		U	4.89	0.489
Dibromochloromethane	124-48-1		U	4.89	0.489
Chloroethane	75-00-3		U	9.78	0.978
Chloroform	67-66-3		U	4.89	0.489
Chloromethane	74-87-3		U	9.78	1.96
cis-1,2-Dichloroethene	156-59-2		U	4.89	0.489
cis-1,3-Dichloropropene	10061-01-5		U	4.89	0.489
Ethylbenzene	100-41-4		U	4.89	0.489
Methylene chloride	75-09-2		U	4.89	0.978
Methyltert-butyl ether	1634-04-4		U	9.78	0.489
Styrene	100-42-5		U	4.89	0.489
Tetrachloroethene	127-18-4		U	4.89	0.489
Toluene	108-88-3		U	4.89	0.489
trans-1,2-Dichloroethene	156-60-5		U	4.89	0.489
trans-1,3-Dichloropropene	10061-02-6		U	4.89	0.489
Trichloroethene	79-01-6		U	4.89	0.489
Vinyl acetate	108-05-4		U	9.78	0.978
Vinyl chloride	75-01-4		U	9.78	0.978
Xylenes	1330-20-7		U	9.78	0.489

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	98.0	70	121	
4-Bromofluorobenzene	102	59	113	
Dibromofluoromethane	109	65	135	
Toluene-d8	101	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-07**
Client ID: **0136-SO02-051308**
Matrix: **Soil**
Workgroup Number: **WG271883**
Collect Date: **05/13/2008 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **FJB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/21/2008 15:51**
Cal Date: **05/12/2008 18:39**
Run Date: **05/21/2008 15:51**
File ID: **9M62033**
Percent Solid: **87.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.47	0.447
1,1,2,2-Tetrachloroethane	79-34-5		U	4.47	0.447
1,1,2-Trichloroethane	79-00-5		U	4.47	0.447
1,1-Dichloroethane	75-34-3		U	4.47	0.893
1,1-Dichloroethene	75-35-4		U	4.47	0.447
1,2,4-Trichlorobenzene	120-82-1		U	4.47	0.447
1,2-Dichlorobenzene	95-50-1		U	4.47	0.447
1,2-Dichloroethane	107-06-2		U	4.47	0.447
1,2-Dichloropropane	78-87-5		U	4.47	0.447
1,3-Dichlorobenzene	541-73-1		U	4.47	0.447
1,4-Dichlorobenzene	106-46-7		U	4.47	0.447
1,4-Dioxane	123-91-1		U	1520	44.7
2-Butanone	78-93-3		U	22.3	2.23
2-Hexanone	591-78-6		U	8.93	2.23
4-Methyl-2-pentanone	108-10-1		U	8.93	2.23
Acetone	67-64-1		U	89.3	4.47
Acrylonitrile	107-13-1		U	89.3	2.23
Benzene	71-43-2		U	4.47	0.447
Bromodichloromethane	75-27-4		U	4.47	0.447
Bromoform	75-25-2		U	4.47	0.447
Bromomethane	74-83-9		U	8.93	0.893
Carbon disulfide	75-15-0		U	4.47	0.447
Carbon tetrachloride	56-23-5		U	4.47	0.447
Chlorobenzene	108-90-7		U	4.47	0.447
Dibromochloromethane	124-48-1		U	4.47	0.447
Chloroethane	75-00-3		U	8.93	0.893
Chloroform	67-66-3		U	4.47	0.447
Chloromethane	74-87-3		U	8.93	1.79
cis-1,2-Dichloroethene	156-59-2		U	4.47	0.447
cis-1,3-Dichloropropene	10061-01-5		U	4.47	0.447
Ethylbenzene	100-41-4		U	4.47	0.447
Methylene chloride	75-09-2		U	4.47	0.893
Methyltert-butyl ether	1634-04-4		U	8.93	0.447
Styrene	100-42-5		U	4.47	0.447
Tetrachloroethene	127-18-4		U	4.47	0.447
Toluene	108-88-3		U	4.47	0.447
trans-1,2-Dichloroethene	156-60-5		U	4.47	0.447
trans-1,3-Dichloropropene	10061-02-6		U	4.47	0.447
Trichloroethene	79-01-6		U	4.47	0.447
Vinyl acetate	108-05-4		U	8.93	0.893
Vinyl chloride	75-01-4		U	8.93	0.893
Xylenes	1330-20-7		U	8.93	0.447

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.3	70	121	
4-Bromofluorobenzene	104	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	105	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-08	PrePrep Method:	NONE	Instrument:	HPMS6
Client ID:	TB01-051408	Prep Method:	5030B	Prep Date:	05/23/2008 13:34
Matrix:	Water	Analytical Method:	8260B	Cal Date:	04/17/2008 17:34
Workgroup Number:	WG272157	Analyst:	CMS	Run Date:	05/23/2008 13:34
Collect Date:	05/14/2008 00:01	Dilution:	1	File ID:	6M75360
Sample Tag:	01	Units:	ug/L		

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	88.2	76	114	
4-Bromofluorobenzene	102	86	115	
Dibromofluoromethane	93.2	85	115	
Toluene-d8	106	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**
Dry weight correction:	
Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

MD

VOA Preparation/Preservation and Extraction Log

Analyst: MM / FJB Date Prepared/Preserved: 5-14-08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L080S0662-16	A	4-29-08	NA	NA	NA	NA	5.12	5	NA		
L08050184-01	A	5-6-08					5.04				
" -02		"					5.34				
L08050192-01		5-7-08					4.85				
" -02		"					5.17				
L08050290-01	A	5-13-08	1045	1900	NA	NA	6.41	5	—	5	
-01	B		"	"			6.39	"	—		
-01	C		"	"			6.38	—	10		
-02	A		1055	1904			6.58	5	—		
-02	B		"	"			6.54	"	—		
-02	C		"	"			6.38	—	10		
-03	A		1120	1907			6.21	5	—		
-03	B		"	"			6.35	"	—		
-03	C		"	"			6.24	—	10		
-04	A		1320	1910			5.88	5	—		
-04	B		"	"			6.06	"	—		
-04	C		"	"			5.90	—	10		
-05	A		1340	1913			6.47	5	—		
-05	B		"	"			6.45	"	—		
-05	C		"	"			6.13	—	10		
-06	A		1405	1916			6.47	5	—		
-06	B		"	"			6.61	"	—		
-06	C		"	"			6.43	—	10		
" -07	A	"	1415	1919	"	"	6.41	5	—	"	

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

VOA Preparation/Preservation and Extraction Log

Analyst: FJB Date Prepared/Preserved: 5-14-08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L08050290-07	B	5-13-08	1415	1919	NA	NA	6.53	5	—	6	
1 -07	C	1	1	1	1	1	5.94	—	10	1	
BLANK	A	NA	NA	NA	NA	NA	5.00	5	—		
1	B	1	1	1	1	1	1	1	—		
1	C	1	1	1	1	1	1	—	10	1	

marked 5-19-08

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041708
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 23802

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74324	WG268581-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/17/08 08:37
2	6M74325	WG268581-02 0.30ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:07
3	6M74326	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:41
4	6M74327	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:14
5	6M74328	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:47
6	6M74329	WG268581-06 5ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:22
7	6M74330	WG268581-07 20ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:55
8	6M74331	WG268581-08 50ug/L STD 8260	NA	1	1	STD25741	04/17/08 12:30
9	6M74332	WG268581-09 100ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:03
10	6M74333	WG268581-10 200ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:36
11	6M74334	WG268581-11 300ug/L STD 8260	NA	1	1	STD25741	04/17/08 14:09
12	6M74335	SYSTEM BLANK	NA	1	1		04/17/08 14:49
13	6M74336	SYSTEM BLANK	NA	1	1		04/17/08 15:22
14	6M74337	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 15:55
15	6M74338	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 16:28
16	6M74339	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:01
17	6M74340	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:34
18	6M74341	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/17/08 18:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X			
File ID: 6M74326				
	DNR			
4	X			
File ID: 6M74327				
	DNR			
5	X			
File ID: 6M74328				
	DNR			
18	X			
File ID: 6M74341				
	DNR			

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74343	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:29
2	6M74344	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:46
3	6M74345	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:14
4	6M74346	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:41
5	6M74347	WG268744-02 50ug/L STD 8260	NA	1	1	STD25741	04/18/08 12:10
6	6M74348	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 12:49
7	6M74349	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 13:22
8	6M74350	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/18/08 13:55
9	6M74351	WG268745-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/18/08 14:28
10	6M74352	WG268745-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25665	04/18/08 15:01
11	6M74353	L08040217-08 A 8260	<2	1	1		04/18/08 15:35
12	6M74354	L08040217-06 A 8260	<2	1	1		04/18/08 16:08
13	6M74355	L08040222-05 A 8260	<2	1	1		04/18/08 16:41
14	6M74356	L08040217-01 A 50X 8260	<2	1	50		04/18/08 17:14
15	6M74357	L08040217-03 A 50X 8260	<2	1	50		04/18/08 17:47
16	6M74358	L08040217-04 A 50X 8260	<2	1	50		04/18/08 18:21
17	6M74359	L08040217-05 A 50X 8260	<2	1	50		04/18/08 18:54
18	6M74360	L08040217-07 A 50X 8260	<2	1	50		04/18/08 19:27
19	6M74361	L08040222-01 A 50X 8260	<2	1	50		04/18/08 20:00
20	6M74362	L08040222-02 A 50X 8260	7	1	50		04/18/08 20:33
21	6M74363	L08040222-03 A 50X 8260	<2	1	50		04/18/08 21:07
22	6M74364	L08040222-04 A 50X 8260	<2	1	50		04/18/08 21:40
23	6M74365	L08040222-06 A 50X 8260	<2	1	50		04/18/08 22:13
24	6M74366	L08040222-08 A 50X 8260	<2	1	50		04/18/08 22:46
25	6M74367	L08040222-10 A 50X 8260	<2	1	50		04/18/08 23:20
26	6M74368	SYSTEM CHECK	NA	1	1		04/18/08 23:53
27	6M74369	SYSTEM CHECK	NA	1	1		04/19/08 00:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 6M74344				
	Replaced septa.			

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 6M74345				
Calibrated mass axis and peak width.				
6	X			
File ID: 6M74348				
14	X	1	Analyzed too dilute	
File ID: 6M74356				
15	X	1	Analyzed too dilute	
File ID: 6M74357				
16	X	1	Analyzed too dilute	
File ID: 6M74358				
17	X	1	Analyzed too dilute	
File ID: 6M74359				
19	X	1	Analyzed too dilute	
File ID: 6M74361				
20	X	1	Analyzed too dilute	
File ID: 6M74362				
21	X	1	Analyzed too dilute	
File ID: 6M74363				
22	X	1	Analyzed too dilute	
File ID: 6M74364				
23	X	1	Analyzed too dilute	
File ID: 6M74365				
24	X	1	Analyzed too dilute	
File ID: 6M74366				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
25	X	1	Analyzed too dilute	
File ID: 6M74367				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61788	system blank	NA	7	1		05/12/08 07:18
2	9M61789	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:17
3	9M61790	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:37
4	9M61792	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 09:35
5	9M61793	WG270933-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26262	05/12/08 10:06
6	9M61794	SYSTEM CHECK	NA	7	1		05/12/08 10:40
7	9M61795	WG270933-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/12/08 11:07
8	9M61797	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 12:03
9	9M61798	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 12:43
10	9M61799	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 13:24
11	9M61800	SYSTEM BLANK	NA	7	1		05/12/08 13:59
12	9M61801	WG270933-03 0.5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 14:31
13	9M61802	WG270933-04 1ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:03
14	9M61803	WG270933-05 2ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:34
15	9M61804	WG270933-06 5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:05
16	9M61805	WG270933-07 20ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:36
17	9M61806	WG270933-08 50ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:06
18	9M61807	WG270933-09 100ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:37
19	9M61808	WG270933-10 200ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:08
20	9M61809	WG270933-11 300ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:39
21	9M61810	SYSTEM BLANK	NA	7	1		05/12/08 19:10
22	9M61811	SYSTEM BLANK	NA	7	1		05/12/08 19:41
23	9M61812	WG270933-12 20ug/Kg ALT SRC STD 826	NA	7	1	STD26314	05/12/08 20:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M61797				
	DNR.			
9				
File ID: 9M61798				
	DNR.			
10				

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61799				
	DNR. Had to run a curve.			
11				
File ID: 9M61800				
	DNR.			

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052008
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24253

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26505 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271705

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61989	WG271704-01 50ng BFB STD 8260	NA	7	1	STD26149	05/20/08 06:16
2	9M61990	WG271704-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26505	05/20/08 06:43
3	9M61991	WG271704-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26505	05/20/08 07:15
4	9M61992	WG271705-01 VBLK0520 BLANK 8260	NA	7	1		05/20/08 07:46
5	9M61993	WG271705-02 20ug/Kg LCS STD 8260	NA	7	1	STD26340	05/20/08 08:18
6	9M61994	L08050333-05 A 826-SPE	NA	7	1		05/20/08 08:50
7	9M61995	L08050333-06 A 826-SPE	NA	7	1		05/20/08 09:22
8	9M61996	L08050333-07 A 826-SPE	NA	7	1		05/20/08 09:54
9	9M61997	L08050333-08 A 826-SPE	NA	7	1		05/20/08 10:25
10	9M61998	L08050333-09 A 826-SPE	NA	7	1		05/20/08 10:57
11	9M61999	L08050333-10 MS A 826-SPE	NA	7	1	STD26340	05/20/08 11:29
12	9M62000	L08050333-11 MSD A 826-SPE	NA	7	1	STD26340	05/20/08 12:01
13	9M62001	L08050333-12 A 826-SPE	NA	7	1		05/20/08 12:32
14	9M62002	L08050333-13 A 826-SPE	NA	7	1		05/20/08 13:04
15	9M62003	L08050321-09 B 00 826-SPE	NA	7	1		05/20/08 13:35
16	9M62004	L08040816-09 A 00 826-SPE	NA	7	1		05/20/08 14:06
17	9M62005	L08050290-02 A 826-SPE	NA	7	1		05/20/08 14:38
18	9M62006	L08050290-03 A 826-SPE	NA	7	1		05/20/08 15:09
19	9M62007	L08050290-04 A 826-SPE	NA	7	1		05/20/08 15:40
20	9M62008	L08050290-05 A 826-SPE	NA	7	1		05/20/08 16:11
21	9M62009	L08050319-01 A 8260A	NA	7	1		05/20/08 16:43
22	9M62010	L08050319-02 A 8260A	NA	7	1		05/20/08 17:14
23	9M62011	L08050319-03 A 8260A	NA	7	1		05/20/08 17:45
24	9M62012	L08050319-04 A 8260A	NA	7	1		05/20/08 18:17
25	9M62013	SYSTEM BLANK	NA	7	1		05/20/08 18:48
26	9M62014	SYSTEM BLANK	NA	7	1		05/20/08 19:20
27	9M62015	L08050029-06 A 826-REF-BLK	NA	7	1		05/20/08 19:51
28	9M62016	L08050029-07 A 826-REF-BLK	NA	7	1		05/20/08 20:23
29	9M62017	L08050029-08 A 826-REF-BLK	NA	7	1		05/20/08 20:55

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			

Approved: May 27, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052008
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24253

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26505 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG271705

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61990				
	VC was low. Do not report.			
6	X	1	Surrogate standard failure	
File ID: 9M61994				
	Needs ss confirmation.			
16				
File ID: 9M62004				
	Reran out of the PCT-S jar.			
21	X	1	Internal standard and surrogate standard failure	
File ID: 9M62009				
22	X	1	Internal standard and surrogate standard failure	
File ID: 9M62010				
24	X	1	Missed Tune	
File ID: 9M62012				
	Do not report.			
27	X	1		mecl
File ID: 9M62015				
	mecl was over the RL.			

Approved: May 27, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052108
Analyst1: FJB Analyst2: CMS
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24294

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26505 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271883

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M62019	WG271879-01 50ng BFB STD 8260	NA	7	1	STD26149	05/21/08 08:32
2	9M62020	WG271879-02 50ug/L STD 8260	NA	7	1	STD26505	05/21/08 08:57
3	9M62021	WG271883-01 VBLK0521 BLANK 8260	NA	7	1		05/21/08 09:29
4	9M62022	WG271883-02 20ug/L LCS STD 8260	NA	7	1	STD26340	05/21/08 10:02
5	9M62023	L08050319-01 A1 8260A	NA	7	1		05/21/08 10:33
6	9M62024	L08050319-02 A1 8260A	NA	7	1		05/21/08 11:05
7	9M62025	L08050319-04 00 8260A	NA	7	1		05/21/08 11:37
8	9M62026	L08050333-05 B 00 826-SPE	NA	7	1		05/21/08 12:09
9	9M62027	L08050295-01 A 826-SPE	NA	7	1		05/21/08 12:40
10	9M62028	L08050295-02 A 826-SPE	NA	7	1		05/21/08 13:12
11	9M62029	L08050295-03 MS A 826-SPE	NA	7	1	STD26340	05/21/08 13:44
12	9M62030	L08050295-04 MSD A 826-SPE	NA	7	1	STD26340	05/21/08 14:16
13	9M62031	L08050295-05 A 826-SPE	NA	7	1		05/21/08 14:48
14	9M62032	L08050290-06 A 826-SPE	NA	7	1		05/21/08 15:20
15	9M62033	L08050290-07 A 826-SPE	NA	7	1		05/21/08 15:51
16	9M62034	L08050290-01 A 826-SPE	NA	7	1		05/21/08 16:24
17	9M62035	L08050319-06 5X A 826-SPE	NA	7	5		05/21/08 16:55
18	9M62036	L08050370-01 A 826-SPE	NA	7	1		05/21/08 17:26
19	9M62037	L08050380-01 A 826-SPE	NA	7	1		05/21/08 17:57
20	9M62038	L08050380-02 A 826-SPE	NA	7	1		05/21/08 18:29
21	9M62039	L08050380-03 A 826-SPE	NA	7	1		05/21/08 19:00
22	9M62040	L08050380-04 A 826-SPE	NA	7	1		05/21/08 19:31
23	9M62041	L08050380-05 A 826-SPE	NA	7	1		05/21/08 20:03
24	9M62042	L08050380-06 A 826-SPE	NA	7	1		05/21/08 20:34
25	9M62043	SYSTEM BLANK	NA	7	1		05/21/08 21:06
26	9M62044	SYSTEM BLANK	NA	7	1		05/21/08 21:38
27	9M62045	L0805029-06 B A1 826-REF-BLK	NA	7	1		05/21/08 22:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
17	X	5	Internal standard and surrogate standard failure	
File ID: 9M62035				
Ran on HPMS 6 as an extraction run.				

Approved: May 27, 2008

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052108
Analyst1: FJB Analyst2: CMS
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24294

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26505 LCS: STD26340 MS/MSD: STD26340

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG271883

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
27				
File ID: 9M62045				
	Confirms mecl.			

Approved: May 27, 2008

Page: 2

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052308
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24308

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505 LCS: STD26340 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272157

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M75350	WG272155-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/23/08 08:37
2	6M75351	WG272155-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/23/08 08:52
3	6M75352	WG272155-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/23/08 09:18
4	6M75353	WG272155-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/23/08 09:49
5	6M75354	WG272155-02 50ug/L STD 8260	NA	1	1	STD26505	05/23/08 10:16
6	6M75355	WG272179-04 100ug/L A9FOO STD 8260	NA	1	1	STD26599	05/23/08 10:50
7	6M75356	WG272157-01 VBLK0523 BLANK 8260	NA	1	1		05/23/08 11:23
8	6M75357	WG272157-02 20ug/L LCS STD 8260	NA	1	1	STD26340	05/23/08 11:56
9	6M75358	WG272157-03 20ug/L LCSDUP STD 8260	NA	1	1	STD26340	05/23/08 12:29
10	6M75359	L08050468-01 B 200X 826-SPE D1	<2	1	200		05/23/08 13:02
11	6M75360	L08050290-08 A 826-SPE	<2	1	1		05/23/08 13:34
12	6M75361	L08050387-06 A 826-SPE	<2	1	1		05/23/08 14:07
13	6M75362	L08050387-01 A 826-SPE	<2	1	1		05/23/08 14:40
14	6M75363	L08050387-02 A 826-SPE	<2	1	1		05/23/08 15:13
15	6M75364	L08050391-06 A 826-SPE	<2	1	1		05/23/08 15:46
16	6M75365	L08050391-12 A 826-SPE	<2	1	1		05/23/08 16:19
17	6M75366	L08050387-03 A 826-SPE	<2	1	1		05/23/08 16:52
18	6M75367	L08050387-04 A 826-SPE	<2	1	1		05/23/08 17:25
19	6M75368	L08050391-07 A 20X 826-SPE	<2	1	20		05/23/08 17:57
20	6M75369	L08050391-09 A 826-SPE	<2	1	1		05/23/08 18:30
21	6M75370	L08050391-10 A 826-SPE	<2	1	1		05/23/08 19:03
22	6M75371	SYSTEM BLANK	NA	1	1		05/23/08 19:37
23	6M75372	SYSTEM BLANK	NA	1	1		05/23/08 20:10
24	6M75373	SYSTEM BLANK	NA	1	1		05/23/08 20:43
25	6M75374	SYSTEM BLANK	NA	1	1		05/23/08 21:16
26	6M75375	SYSTEM BLANK	NA	1	1		05/23/08 21:49
27	6M75376	SYSTEM BLANK	NA	1	1		05/23/08 22:23
28	6M75377	SYSTEM BLANK	NA	1	1		05/23/08 22:56
29	6M75378	SYSTEM BLANK	NA	1	1		05/23/08 23:29
30	6M75379	SYSTEM BLANK	NA	1	1		05/24/08 00:02
31	6M75380	SYSTEM BLANK	NA	1	1		05/24/08 00:35
32	6M75381	SYSTEM BLANK	NA	1	1		05/24/08 01:08
33	6M75382	SYSTEM BLANK	NA	1	1		05/24/08 01:41
34	6M75383	SYSTEM BLANK	NA	1	1		05/24/08 02:14

Approved: May 27, 2008

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052308
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24308

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505 LCS: STD26340 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272157

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M75384	SYSTEM BLANK	NA	1	1		05/24/08 02:47
36	6M75385	SYSTEM BLANK	NA	1	1		05/24/08 03:21
37	6M75386	SYSTEM BLANK	NA	1	1		05/24/08 03:54
38	6M75387	SYSTEM BLANK	NA	1	1		05/24/08 04:27
39	6M75388	SYSTEM BLANK	NA	1	1		05/24/08 05:02
40	6M75389	SYSTEM BLANK	NA	1	1		05/24/08 05:35
41	6M75390	SYSTEM BLANK	NA	1	1		05/24/08 06:08
42	6M75391	SYSTEM BLANK	NA	1	1		05/24/08 06:41
43	6M75392	SYSTEM CHECK	NA	1	1		05/24/08 07:14
44	6M75393	SYSTEM CHECK	NA	1	1		05/24/08 07:47

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 6M75350				
	Tune failed/DNR			
2	X			
File ID: 6M75351				
	Tune failed/DNR-Replaced septa after injection			
3	X			
File ID: 6M75352				
	Tune failed/DNR-Baked out			
6				
File ID: 6M75355				
	DNR-not needed			
19	X	1	Analyzed too dilute	
File ID: 6M75368				
	DNR			
20	X	20	Over Calibration Range	cis-1,2-DCE, TCE
File ID: 6M75369				
21	X	100	Over Calibration Range	VC, cis-1,2-DCE, TCE
File ID: 6M75370				

Approved: May 27, 2008

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Microbac Laboratories Inc.

Data Checklist

Date: 17-APR-2008
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21761
Analytical Workgroups: WG268581

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
22-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:57:54

Microbac Laboratories Inc.

Data Checklist

Date: 18-APR-2008
Analyst: ASP
Analyst: CMS
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21767
Analytical Workgroups: WG268745

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:58:36

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22226
Analytical Workgroups: WG270933

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 13:40:10

Microbac Laboratories Inc.

Data Checklist

Date: 20-MAY-2008
Analyst: CMS
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22319
Analytical Workgroups: WG271705

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
21-MAY-2008

Secondary Reviewer:
27-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-27-2008 11:11:57

Microbac Laboratories Inc.

Data Checklist

Date: 21-MAY-2008
Analyst: FJB
Analyst: CMS
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22346
Analytical Workgroups: WG271883

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-MAY-2008

Secondary Reviewer:
27-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-27-2008 08:28:21

Microbac Laboratories Inc.

Data Checklist

Date: 23-MAY-2008
Analyst: CMS
Analyst: NA
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 22384
Analytical Workgroups: WG272157

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-MAY-2008

Secondary Reviewer:
27-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-27-2008 13:41:26

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG271705

Login Number: L08050290

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0126-SO01-051308	05/13/08	05/14/08	05/20/08	14	7.10	05/20/08	14	7.10	
0135-SO02-051308	05/13/08	05/14/08	05/20/08	14	7.15	05/20/08	14	7.15	
0125-SO01-051308	05/13/08	05/14/08	05/20/08	14	7.10	05/20/08	14	7.10	
0134-SO01-051308	05/13/08	05/14/08	05/20/08	14	7.16	05/20/08	14	7.16	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104267
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG272157

Login Number: L08050290

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TB01-051408	05/14/08	05/14/08	05/23/08	14	9.56	05/23/08	14	9.56	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104267
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG271883

Login Number: L08050290

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0135-SO01-051308	05/13/08	05/14/08	05/21/08	14	8.24	05/21/08	14	8.24	
0136-SO02-051308	05/13/08	05/14/08	05/21/08	14	8.07	05/21/08	14	8.07	
0136-SO01-051308	05/13/08	05/14/08	05/21/08	14	8.05	05/21/08	14	8.05	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104267
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050290
Instrument Id: HPMS9
Workgroup (AAB#): WG271883

Method: 8260
CAL ID: HPMS9-12-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050290-01	1.00	01	94.7	110	98.6	102
L08050290-06	1.00	01	98.0	109	102	101
L08050290-07	1.00	01	96.3	110	104	105
WG271883-01	1.00	01	93.2	107	95.0	97.4
WG271883-02	1.00	01	93.6	108	96.9	99.3

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104273
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050290
Instrument Id: HPMS6
Workgroup (AAB#): WG272157

Method: 8260
CAL ID: HPMS6-17-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08050290-08	1.00	01	88.2	93.2	102	106
WG272157-01	1.00	01	86.0	91.4	103	107
WG272157-02	1.00	01	87.2	91.5	102	106
WG272157-03	1.00	01	86.3	93.7	101	107

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104273
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050290
Instrument Id: HPMS9
Workgroup (AAB#): WG271705

Method: 8260
CAL ID: HPMS9-12-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050290-02	1.00	01	91.9	106	94.9	99.0
L08050290-03	1.00	01	93.2	108	102	102
L08050290-04	1.00	01	96.6	106	95.8	98.9
L08050290-05	1.00	01	98.6	110	95.9	99.4
WG271705-01	1.00	01	87.1	102	93.0	96.1
WG271705-02	1.00	01	86.2	102	94.4	98.1

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104273
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050290
Work Group: WG272157
Blank File ID: 6M75356
Blank Sample ID: WG272157-01
Prep Date: 05/23/08 11:23
Instrument ID: HPMS6
Analyzed Date: 05/23/08 11:23
Method: 8260B
Analyst: CMS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG272157-02	6M75357	05/23/08 11:56	01
LCS2	WG272157-03	6M75358	05/23/08 12:29	01
TB01-051408	L08050290-08	6M75360	05/23/08 13:34	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104268
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050290
Work Group: WG271705
Blank File ID: 9M61992
Blank Sample ID: WG271705-01
Prep Date: 05/20/08 07:46
Instrument ID: HPMS9
Analyzed Date: 05/20/08 07:46
Method: 8260B
Analyst: CMS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271705-02	9M61993	05/20/08 08:18	01
0135-SO02-051308	L08050290-02	9M62005	05/20/08 14:38	01
0134-SO01-051308	L08050290-03	9M62006	05/20/08 15:09	01
0125-SO01-051308	L08050290-04	9M62007	05/20/08 15:40	01
0126-SO01-051308	L08050290-05	9M62008	05/20/08 16:11	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104268
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050290
Work Group: WG271883
Blank File ID: 9M62021
Blank Sample ID: WG271883-01
Prep Date: 05/21/08 09:29
Instrument ID: HPMS9
Analyzed Date: 05/21/08 09:29
Method: 8260B
Analyst: FJB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271883-02	9M62022	05/21/08 10:02	01
0136-SO01-051308	L08050290-06	9M62032	05/21/08 15:20	01
0136-SO02-051308	L08050290-07	9M62033	05/21/08 15:51	01
0135-SO01-051308	L08050290-01	9M62034	05/21/08 16:24	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104268
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/23/08 11:23 Sample ID: WG272157-01
Instrument ID: HPMS6 Run Date: 05/23/08 11:23 Prep Method: 5030B
File ID: 6M75356 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272157 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

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METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/23/08 11:23 Sample ID: WG272157-01
Instrument ID: HPMS6 Run Date: 05/23/08 11:23 Prep Method: 5030B
File ID: 6M75356 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272157 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	86.0	76 - 114	PASS
4-Bromofluorobenzene	103	86 - 115	PASS
Dibromofluoromethane	91.4	85 - 115	PASS
Toluene-d8	107	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/20/08 07:46 Sample ID: WG271705-01
Instrument ID: HPMS9 Run Date: 05/20/08 07:46 Prep Method: 5030A
File ID: 9M61992 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271705 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/20/08 07:46 Sample ID: WG271705-01
Instrument ID: HPMS9 Run Date: 05/20/08 07:46 Prep Method: 5030A
File ID: 9M61992 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271705 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	87.1	70 - 121	PASS
4-Bromofluorobenzene	93.0	59 - 113	PASS
Dibromofluoromethane	102	65 - 135	PASS
Toluene-d8	96.1	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/21/08 09:29 Sample ID: WG271883-01
Instrument ID: HPMS9 Run Date: 05/21/08 09:29 Prep Method: 5030A
File ID: 9M62021 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271883 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/21/08 09:29 Sample ID: WG271883-01
Instrument ID: HPMS9 Run Date: 05/21/08 09:29 Prep Method: 5030A
File ID: 9M62021 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271883 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.2	70 - 121	PASS
4-Bromofluorobenzene	95.0	59 - 113	PASS
Dibromofluoromethane	107	65 - 135	PASS
Toluene-d8	97.4	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1104269
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Run Date: 05/20/2008 Sample ID: WG271705-02
Instrument ID: HPMS9 Run Time: 08:18 Prep Method: 5030A
File ID: 9M61993 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271705 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	21.0	105	68 - 130	
1,1,2,2-Tetrachloroethane	20.0	20.5	103	59 - 140	
1,1,2-Trichloroethane	20.0	20.8	104	62 - 127	
1,1-Dichloroethane	20.0	19.6	98.0	73 - 125	
1,1-Dichloroethene	20.0	19.6	97.9	65 - 136	
1,2,4-Trichlorobenzene	20.0	22.5	112	65 - 131	
1,2-Dichlorobenzene	20.0	21.4	107	74 - 120	
1,2-Dichloroethane	20.0	18.1	90.5	72 - 137	
1,2-Dichloropropane	20.0	20.1	100	71 - 120	
1,3-Dichlorobenzene	20.0	21.6	108	72 - 124	
1,4-Dichlorobenzene	20.0	20.2	101	72 - 125	
1,4-Dioxane	200	222	111	50 - 150	
2-Butanone	20.0	20.2	101	40 - 135	
2-Hexanone	20.0	17.4	87.0	50 - 140	
4-Methyl-2-pentanone	20.0	20.1	101	50 - 140	
Acetone	20.0	18.8	93.9	40 - 141	
Acrylonitrile	20.0	19.9	99.5	60 - 140	
Benzene	20.0	21.3	106	73 - 126	
Bromodichloromethane	20.0	20.8	104	72 - 128	
Bromoform	20.0	22.1	111	60 - 137	
Bromomethane	20.0	23.4	117	45 - 141	
Carbon disulfide	20.0	18.8	93.9	65 - 135	
Carbon tetrachloride	20.0	22.2	111	67 - 133	
Chlorobenzene	20.0	20.6	103	75 - 123	
Dibromochloromethane	20.0	21.6	108	66 - 130	
Chloroethane	20.0	20.4	102	41 - 141	
Chloroform	20.0	20.4	102	72 - 124	
Chloromethane	20.0	18.1	90.4	51 - 129	
cis-1,2-Dichloroethene	20.0	23.1	116	67 - 125	
cis-1,3-Dichloropropene	20.0	20.3	101	72 - 126	
Ethylbenzene	20.0	22.0	110	74 - 127	
Methylene chloride	20.0	19.3	96.7	63 - 137	
Methyltert-butyl ether	20.0	22.3	112	50 - 135	
Styrene	20.0	19.8	99.2	74 - 128	
Tetrachloroethene	20.0	21.6	108	67 - 139	
Toluene	20.0	21.0	105	71 - 127	
trans-1,2-Dichloroethene	20.0	22.5	112	66 - 134	
trans-1,3-Dichloropropene	20.0	17.9	89.3	65 - 127	
Trichloroethene	20.0	23.0	115	77 - 124	
Vinyl acetate	20.0	12.0	60.1	55 - 130	
Vinyl chloride	20.0	21.5	107	58 - 126	

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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Run Date: 05/20/2008 Sample ID: WG271705-02
Instrument ID: HPMS9 Run Time: 08:18 Prep Method: 5030A
File ID: 9M61993 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG271705 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	63.6	106	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	86.2	70 - 121	PASS
4-Bromofluorobenzene	94.4	59 - 113	PASS
Dibromofluoromethane	102	65 - 135	PASS
Toluene-d8	98.1	86 - 138	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1099875
Report generated: 05/28/2008 15:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271883-02
Instrument ID: HPMS9 Run Time: 10:02 Prep Method: 5030A
File ID: 9M62022 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271883 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	22.0	110	68 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.5	108	59 - 140	
1,1,2-Trichloroethane	20.0	21.6	108	62 - 127	
1,1-Dichloroethane	20.0	18.9	94.5	73 - 125	
1,1-Dichloroethene	20.0	19.2	96.0	65 - 136	
1,2,4-Trichlorobenzene	20.0	24.5	123	65 - 131	
1,2-Dichlorobenzene	20.0	22.7	114	74 - 120	
1,2-Dichloroethane	20.0	19.3	96.5	72 - 137	
1,2-Dichloropropane	20.0	19.5	97.7	71 - 120	
1,3-Dichlorobenzene	20.0	22.1	110	72 - 124	
1,4-Dichlorobenzene	20.0	20.9	105	72 - 125	
1,4-Dioxane	200	226	113	50 - 150	
2-Butanone	20.0	20.8	104	40 - 135	
2-Hexanone	20.0	18.0	90.1	50 - 140	
4-Methyl-2-pentanone	20.0	20.8	104	50 - 140	
Acetone	20.0	19.4	96.8	40 - 141	
Acrylonitrile	20.0	20.9	105	60 - 140	
Benzene	20.0	20.6	103	73 - 126	
Bromodichloromethane	20.0	21.9	110	72 - 128	
Bromoform	20.0	25.5	127	60 - 137	
Bromomethane	20.0	24.6	123	45 - 141	
Carbon disulfide	20.0	18.6	92.8	65 - 135	
Carbon tetrachloride	20.0	23.9	120	67 - 133	
Chlorobenzene	20.0	20.8	104	75 - 123	
Dibromochloromethane	20.0	23.0	115	66 - 130	
Chloroethane	20.0	20.1	100	41 - 141	
Chloroform	20.0	20.4	102	72 - 124	
Chloromethane	20.0	18.6	92.9	51 - 129	
cis-1,2-Dichloroethene	20.0	22.4	112	67 - 125	
cis-1,3-Dichloropropene	20.0	20.8	104	72 - 126	
Ethylbenzene	20.0	21.4	107	74 - 127	
Methylene chloride	20.0	18.7	93.3	63 - 137	
Methyltert-butyl ether	20.0	23.6	118	50 - 135	
Styrene	20.0	20.3	102	74 - 128	
Tetrachloroethene	20.0	21.3	107	67 - 139	
Toluene	20.0	20.2	101	71 - 127	
trans-1,2-Dichloroethene	20.0	21.7	108	66 - 134	
trans-1,3-Dichloropropene	20.0	18.8	94.1	65 - 127	
Trichloroethene	20.0	22.9	115	77 - 124	
Vinyl acetate	20.0	10.7	53.4	55 - 130	*
Vinyl chloride	20.0	22.1	111	58 - 126	

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271883-02
Instrument ID: HPMS9 Run Time: 10:02 Prep Method: 5030A
File ID: 9M62022 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG271883 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS9-12-MAY-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	62.8	105	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.6	70 - 121	PASS
4-Bromofluorobenzene	96.9	59 - 113	PASS
Dibromofluoromethane	108	65 - 135	PASS
Toluene-d8	99.3	86 - 138	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1099875
Report generated: 05/28/2008 15:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG272157 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272157-02 LCS File ID: 6M75357 Run Date: 05/23/2008 11:56
Sample ID: WG272157-03 LCS2 File ID: 6M75358 Run Date: 05/23/2008 12:29

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	20.0	100	20.0	19.0	94.9	5.17	67 - 132	20	
1,1,2,2-Tetrachloroethane	20.0	20.7	103	20.0	20.5	103	0.693	63 - 128	20	
1,1,2-Trichloroethane	20.0	20.6	103	20.0	20.3	102	1.61	70 - 125	20	
1,1-Dichloroethane	20.0	21.7	109	20.0	20.9	104	3.93	67 - 133	20	
1,1-Dichloroethene	20.0	20.9	105	20.0	19.6	98.2	6.34	68 - 130	20	
1,2,4-Trichlorobenzene	20.0	22.4	112	20.0	21.8	109	2.74	65 - 134	20	
1,2-Dichlorobenzene	20.0	22.5	112	20.0	21.6	108	3.85	71 - 122	20	
1,2-Dichloroethane	20.0	19.6	98.1	20.0	19.1	95.6	2.56	69 - 132	20	
1,2-Dichloropropane	20.0	20.8	104	20.0	20.3	102	2.24	75 - 125	20	
1,3-Dichlorobenzene	20.0	22.3	112	20.0	21.8	109	2.21	75 - 124	20	
1,4-Dichlorobenzene	20.0	21.3	106	20.0	20.9	104	1.90	74 - 123	20	
1,4-Dioxane	200	161	80.6	200	166	82.9	2.75	70 - 130	20	
2-Butanone	20.0	17.8	89.2	20.0	18.1	90.6	1.56	49 - 136	20	
2-Hexanone	20.0	16.2	81.2	20.0	16.7	83.4	2.74	65 - 135	20	
4-Methyl-2-pentanone	20.0	20.0	100	20.0	19.8	99.0	1.08	58 - 134	20	
Acetone	20.0	18.9	94.6	20.0	18.7	93.3	1.40	30 - 135	20	
Acrylonitrile	20.0	20.8	104	20.0	20.2	101	2.98	60 - 135	20	
Benzene	20.0	22.2	111	20.0	21.3	106	4.20	81 - 122	20	
Bromodichloromethane	20.0	22.3	111	20.0	21.6	108	3.11	76 - 121	20	
Bromoform	20.0	18.4	91.8	20.0	18.1	90.3	1.58	69 - 128	20	
Bromomethane	20.0	25.1	126	20.0	25.0	125	0.244	53 - 141	20	
Carbon disulfide	20.0	19.3	96.3	20.0	18.3	91.4	5.27	70 - 130	20	
Carbon tetrachloride	20.0	20.2	101	20.0	19.1	95.6	5.72	66 - 138	20	
Chlorobenzene	20.0	21.5	108	20.0	20.7	103	4.17	81 - 122	20	
Dibromochloromethane	20.0	19.2	95.9	20.0	18.9	94.7	1.32	66 - 133	20	
Chloroethane	20.0	18.7	93.7	20.0	18.0	90.1	3.92	58 - 133	20	
Chloroform	20.0	21.5	108	20.0	20.9	105	2.88	69 - 128	20	
Chloromethane	20.0	20.4	102	20.0	19.4	97.0	5.17	56 - 131	20	
cis-1,2-Dichloroethene	20.0	23.9	119	20.0	23.2	116	2.82	72 - 126	20	
cis-1,3-Dichloropropene	20.0	19.2	96.2	20.0	18.8	94.2	2.05	69 - 131	20	
Ethylbenzene	20.0	23.7	118	20.0	22.7	113	4.34	73 - 127	20	
Methylene chloride	20.0	20.3	102	20.0	19.5	97.5	4.03	63 - 137	20	
Methyltert-butyl ether	20.0	21.0	105	20.0	20.8	104	1.13	65 - 123	20	
Styrene	20.0	20.1	100	20.0	19.7	98.5	1.96	65 - 134	20	
Tetrachloroethene	20.0	23.9	120	20.0	22.9	115	4.40	66 - 128	20	
Toluene	20.0	23.8	119	20.0	22.8	114	4.38	77 - 122	20	
trans-1,2-Dichloroethene	20.0	20.7	104	20.0	20.2	101	2.81	63 - 137	20	
trans-1,3-Dichloropropene	20.0	19.1	95.3	20.0	18.4	92.1	3.44	59 - 135	20	
Trichloroethene	20.0	20.9	105	20.0	20.1	100	4.14	70 - 127	20	
Vinyl acetate	20.0	9.12	45.6	20.0	8.74	43.7	4.33	65 - 130	20	*

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103404
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG272157 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272157-02 LCS File ID: 6M75357 Run Date: 05/23/2008 11:56
Sample ID: WG272157-03 LCS2 File ID: 6M75358 Run Date: 05/23/2008 12:29

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	22.8	114	20.0	21.4	107	6.28	50 - 134	20	
Xylenes	60.0	67.8	113	60.0	65.5	109	3.49	75 - 120	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	91.5	93.7	85 - 115	PASS
1,2-Dichloroethane-d4	87.2	86.3	76 - 114	PASS
Toluene-d8	106	107	88 - 110	PASS
4-Bromofluorobenzene	102	101	86 - 115	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103404
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268581

Tune ID: WG268581-01
Run Date: 04/17/2008
Run Time: 08:37
File ID: 6M74324
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.7	5835	PASS
75.0	95.0	30.0	60.0	54.3	12819	PASS
95.0	95.0	100	100	100	23626	PASS
96.0	95.0	5.00	9.00	6.76	1597	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	65.0	15368	PASS
175	174	5.00	9.00	6.51	1001	PASS
176	174	95.0	101	99.4	15270	PASS
177	176	5.00	9.00	6.11	933	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-02	STD	01	04/17/2008 09:07	
WG268581-06	STD	01	04/17/2008 11:22	
WG268581-07	STD	01	04/17/2008 11:55	
WG268581-08	STD-CCV	01	04/17/2008 12:30	
WG268581-09	STD	01	04/17/2008 13:03	
WG268581-10	STD	01	04/17/2008 13:36	
WG268581-11	STD	01	04/17/2008 14:09	
WG268581-05	STD	01	04/17/2008 16:28	
WG268581-04	STD	01	04/17/2008 17:01	
WG268581-03	STD	01	04/17/2008 17:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268744

Tune ID: WG268744-01
Run Date: 04/18/2008
Run Time: 11:41
File ID: 6M74346
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.1	6222	PASS
75.0	95.0	30.0	60.0	54.1	14553	PASS
95.0	95.0	100	100	100	26922	PASS
96.0	95.0	5.00	9.00	6.39	1719	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	61.5	16556	PASS
175	174	5.00	9.00	7.12	1179	PASS
176	174	95.0	101	98.6	16324	PASS
177	176	5.00	9.00	5.68	927	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-12	SSCV	01	04/18/2008 13:55	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS6
Analyst: CMS
Workgroup: WG272155

Tune ID: WG272155-01
Run Date: 05/23/2008
Run Time: 09:49
File ID: 6M75353
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.7	6788	PASS
75.0	95.0	30.0	60.0	49.4	15473	PASS
95.0	95.0	100	100	100	31309	PASS
96.0	95.0	5.00	9.00	6.66	2085	PASS
173	174	0	2.00	0.599	117	PASS
174	95.0	50.0	100	62.4	19528	PASS
175	174	5.00	9.00	7.44	1453	PASS
176	174	95.0	101	101	19709	PASS
177	176	5.00	9.00	6.41	1264	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272155-02	CCV	01	05/23/2008 10:16	
WG272157-01	BLANK	01	05/23/2008 11:23	
WG272157-02	LCS	01	05/23/2008 11:56	
WG272157-03	LCS2	01	05/23/2008 12:29	
L08050290-08	TB01-051408	01	05/23/2008 13:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS9
Analyst: TMB
Workgroup: WG270933

Tune ID: WG270933-01
Run Date: 05/12/2008
Run Time: 11:07
File ID: 9M61795
Cal ID: HPMS9-02-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.0	3552	PASS
75.0	95.0	30.0	60.0	54.5	8072	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.47	959	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	60.9	9034	PASS
175	174	5.00	9.00	8.38	757	PASS
176	174	95.0	101	95.6	8636	PASS
177	176	5.00	9.00	5.69	491	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270933-03	STD-S	01	05/12/2008 14:31	
WG270933-04	STD-S	01	05/12/2008 15:03	
WG270933-05	STD-S	01	05/12/2008 15:34	
WG270933-06	STD-S	01	05/12/2008 16:05	
WG270933-07	STD-S	01	05/12/2008 16:36	
WG270933-08	STD-CCV-S	01	05/12/2008 17:06	
WG270933-09	STD-S	01	05/12/2008 17:37	
WG270933-10	STD-S	01	05/12/2008 18:08	
WG270933-11	STD-S	01	05/12/2008 18:39	
WG270933-12	SSCV-S	01	05/12/2008 20:12	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS9
Analyst: CMS
Workgroup: WG271704

Tune ID: WG271704-01
Run Date: 05/20/2008
Run Time: 06:16
File ID: 9M61989
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.0	2785	PASS
75.0	95.0	30.0	60.0	51.1	7123	PASS
95.0	95.0	100	100	100	13947	PASS
96.0	95.0	5.00	9.00	7.11	991	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	68.0	9489	PASS
175	174	5.00	9.00	8.58	814	PASS
176	174	95.0	101	97.3	9231	PASS
177	176	5.00	9.00	5.74	530	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271704-02	CCV-S	01	05/20/2008 07:15	
WG271705-01	BLANK	01	05/20/2008 07:46	
WG271705-02	LCS	01	05/20/2008 08:18	
WG271705-03	REF	01	05/20/2008 10:57	
WG271705-04	MS	01	05/20/2008 11:29	
WG271705-05	MSD	01	05/20/2008 12:01	
L08050290-02	0135-SO02-051308	01	05/20/2008 14:38	
L08050290-03	0134-SO01-051308	01	05/20/2008 15:09	
L08050290-04	0125-SO01-051308	01	05/20/2008 15:40	
L08050290-05	0126-SO01-051308	01	05/20/2008 16:11	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050290
Instrument: HPMS9
Analyst: FJB
Workgroup: WG271879

Tune ID: WG271879-01
Run Date: 05/21/2008
Run Time: 08:32
File ID: 9M62019
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.9	4859	PASS
75.0	95.0	30.0	60.0	52.3	11581	PASS
95.0	95.0	100	100	100	22148	PASS
96.0	95.0	5.00	9.00	7.02	1555	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	68.4	15155	PASS
175	174	5.00	9.00	7.40	1122	PASS
176	174	95.0	101	96.7	14649	PASS
177	176	5.00	9.00	7.00	1025	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271879-02	CCV-S	01	05/21/2008 08:57	
WG271883-01	BLANK	01	05/21/2008 09:29	
WG271883-02	LCS	01	05/21/2008 10:02	
WG271883-03	REF	01	05/21/2008 12:40	
WG271883-04	MS	01	05/21/2008 13:44	
WG271883-05	MSD	01	05/21/2008 14:16	
L08050290-06	0136-SO01-051308	01	05/21/2008 15:20	
L08050290-07	0136-SO02-051308	01	05/21/2008 15:51	
L08050290-01	0135-SO01-051308	01	05/21/2008 16:24	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104271
Report generated 05/28/2008 16:01

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

ICAL Workgroup: WG268581 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3223	21.7		1.00
1,2-Dichloropropane	CCC	0.2059	11.4		
Chloroform	CCC	0.4245	7.77		
Ethylbenzene	CCC	0.3544	14.0		
Toluene	CCC	0.9880	9.37		
Vinyl Chloride	CCC	0.1848	14.0		
1,1,2,2-Tetrachloroethane	SPCC	0.3941	11.3		
1,1-Dichloroethane	SPCC	0.4171	11.5		
Bromoform	SPCC	0.1346	18.5	1.00	
Chlorobenzene	SPCC	0.7123	4.25		
Chloromethane	SPCC	0.2801	7.35		
1,1,1-Trichloroethane		0.3724	21.9	1.00	
1,1,2-Trichloroethane		0.1864	5.86		
1,2,4-Trichlorobenzene		0.6579	6.63		
1,2-Dichlorobenzene		0.9364	5.40		
1,2-Dichloroethane		0.3502	4.00		
1,3-Dichlorobenzene		1.022	4.90		
1,4-Dichlorobenzene		1.092	3.52		
1,4-Dioxane		0.001133	35.0		0.991
2-Butanone		0.06587	11.1		
2-Hexanone		0.1291	11.8		
4-Methyl-2-Pentanone		0.05044	22.0	0.998	
Acetone		0.04653	7.11		
Acrylonitrile		0.04803	23.6		1.00
Benzene		0.7533	10.3		
Bromodichloromethane		0.3033	14.3		
Bromomethane		0.1167	38.7		1.00
Carbon Disulfide		0.5297	21.1		1.00
Carbon Tetrachloride		0.2937	24.1	1.00	
Chloroethane		0.1615	22.2		1.00
Dibromochloromethane		0.2280	16.2	1.00	
Methyl Tert Butyl Ether		0.4486	15.5		
Methylene Chloride		0.2016	11.2		
Styrene		0.7948	17.1		1.00
Tetrachloroethene		0.2174	14.0		
Trichloroethene		0.1669	19.2		1.00
Vinyl Acetate		0.3242	5.78		
cis-1,2-Dichloroethene		0.1906	14.2		
cis-1,3-Dichloropropene		0.3033	22.4		1.00
m-,p-Xylene		0.4460	13.9		
o-Xylene		0.4387	16.7		1.00
trans-1,2-Dichloroethene		0.1703	18.7		1.00
trans-1,3-Dichloropropene		0.4226	12.9		

INT_CAL - Modified 03/06/2008
PDF File ID: 1104270
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050290
Analytical Method: 8260B
ICAL Workgroup: WG268581

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1104270
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS9
Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39
ICAL Workgroup: WG270933 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.4588	7.55		
1,2-Dichloropropane	CCC	0.2608	10.7		
Chloroform	CCC	0.5162	3.59		
Ethylbenzene	CCC	0.5626	9.19		
Toluene	CCC	1.724	12.5		
Vinyl Chloride	CCC	0.1858	12.0		
1,1,2,2-Tetrachloroethane	SPCC	0.7830	4.40		
1,1-Dichloroethane	SPCC	0.5553	3.69		
Bromoform	SPCC	0.1603	13.5		
Chlorobenzene	SPCC	1.026	3.24		
Chloromethane	SPCC	0.3160	14.7		
1,1,1-Trichloroethane		0.4383	6.48		
1,1,2-Trichloroethane		0.2955	6.26		
1,2,4-Trichlorobenzene		0.8378	12.8		
1,2-Dichlorobenzene		1.288	4.20		
1,2-Dichloroethane		0.4151	5.15		
1,3-Dichlorobenzene		1.452	3.94		
1,4-Dichlorobenzene		1.533	6.37		
1,4-Dioxane		0.001683	22.2	0.997	
2-Butanone		0.1054	8.74		
2-Hexanone		0.2294	14.2		
4-Methyl-2-Pentanone		0.07657	11.7		
Acetone		0.08272	28.3	0.999	
Acrylonitrile		0.07434	13.1		
Benzene		1.089	4.81		
Bromodichloromethane		0.3374	9.35		
Bromomethane		0.1093	8.38		
Carbon Disulfide		0.9167	5.80		
Carbon Tetrachloride		0.3112	13.7		
Chloroethane		0.1761	3.81		
Dibromochloromethane		0.2826	14.3		
Methyl Tert Butyl Ether		0.6528	12.5		
Methylene Chloride		0.2741	12.4		
Styrene		1.015	17.0	1.00	
Tetrachloroethene		0.3176	6.72		
Trichloroethene		0.2225	6.49		
Vinyl Acetate		0.4854	11.1		
cis-1,2-Dichloroethene		0.2590	6.95		
cis-1,3-Dichloropropene		0.3986	15.0		
m-,p-Xylene		0.6677	10.2		
o-Xylene		0.5964	19.4	1.00	
trans-1,2-Dichloroethene		0.2562	9.35		
trans-1,3-Dichloropropene		0.6074	14.3		

INT_CAL - Modified 03/06/2008
PDF File ID: 1104270
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050290
Analytical Method: 8260B
ICAL Workgroup: WG270933

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1104270
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	1.00	7093.00000	0.2582
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	5051.00000	0.1839
Chloroform	0.300	3813.00000	0.4238	0.400	4177.00000	0.3953	1.00	10990.0000	0.4000
Ethylbenzene	NA	NA	NA	0.400	2333.00000	0.3035	1.00	6244.00000	0.3128
Toluene	NA	NA	NA	0.400	7027.00000	0.9142	1.00	17568.0000	0.8802
Vinyl Chloride	NA	NA	NA	0.400	1684.00000	0.1594	1.00	5494.00000	0.2000
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1339.00000	0.3131	1.00	4089.00000	0.3658
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	1.00	10008.0000	0.3643
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2140.00000	0.1072
Chlorobenzene	NA	NA	NA	0.400	5272.00000	0.6859	1.00	13791.0000	0.6909
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	7787.00000	0.2835
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	1.00	7587.00000	0.2762
1,1,2-Trichloroethane	NA	NA	NA	0.400	1285.00000	0.1672	1.00	3704.00000	0.1856
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	2689.00000	0.6287	1.00	6958.00000	0.6224
1,2-Dichlorobenzene	0.300	3091.00000	0.8576	0.400	4000.00000	0.9353	1.00	10075.0000	0.9012
1,2-Dichloroethane	NA	NA	NA	0.400	3634.00000	0.3439	1.00	9523.00000	0.3466
1,3-Dichlorobenzene	NA	NA	NA	0.400	4191.00000	0.9799	1.00	11119.0000	0.9946
1,4-Dichlorobenzene	0.300	4089.00000	1.135	0.400	4893.00000	1.144	1.00	11757.0000	1.052
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	7108.00000	0.6726	1.00	18411.0000	0.6702
Bromodichloromethane	NA	NA	NA	0.400	2541.00000	0.2405	1.00	7121.00000	0.2592
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	1611.00000	0.05860
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	11751.0000	0.4277
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	5717.00000	0.2081
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	3438.00000	0.1251
Dibromochloromethane	NA	NA	NA	0.400	1320.00000	0.1717	1.00	3588.00000	0.1798
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	9325.00000	0.3394
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	6632.00000	0.2414
Styrene	NA	NA	NA	NA	NA	NA	1.00	11488.0000	0.5756
Tetrachloroethene	NA	NA	NA	NA	NA	NA	1.00	3763.00000	0.1885
Trichloroethene	NA	NA	NA	NA	NA	NA	1.00	3623.00000	0.1319
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	1546.00000	0.1463	1.00	4737.00000	0.1724
cis-1,3-Dichloropropene	NA	NA	NA	0.400	2062.00000	0.1951	1.00	6617.00000	0.2409
m-,p-Xylene	NA	NA	NA	0.800	5491.00000	0.3572	2.00	15909.0000	0.3985
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	6824.00000	0.3419
trans-1,2-Dichloroethene	NA	NA	NA	0.400	1317.00000	0.1246	1.00	3871.00000	0.1409

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	11704.0000	0.2057	5.00	39967.0000	0.2960	20.0	210973.000	0.3754
1,2-Dichloropropane	2.00	9770.00000	0.1717	5.00	26235.0000	0.1943	20.0	119890.000	0.2133
Chloroform	2.00	20663.0000	0.3632	5.00	57384.0000	0.4250	20.0	259831.000	0.4623
Ethylbenzene	2.00	11462.0000	0.2815	5.00	34219.0000	0.3489	20.0	166968.000	0.4040
Toluene	2.00	35511.0000	0.8721	5.00	98405.0000	1.003	20.0	460399.000	1.114
Vinyl Chloride	2.00	8770.00000	0.1542	5.00	24211.0000	0.1793	20.0	127011.000	0.2260
1,1,2,2-Tetrachloroethane	2.00	8347.00000	0.3633	5.00	22149.0000	0.3944	20.0	99609.0000	0.4112
1,1-Dichloroethane	2.00	19558.0000	0.3438	5.00	53741.0000	0.3980	20.0	252955.000	0.4501
Bromoform	2.00	3892.00000	0.09560	5.00	12605.0000	0.1285	20.0	60095.0000	0.1454
Chlorobenzene	2.00	27110.0000	0.6658	5.00	70575.0000	0.7195	20.0	310688.000	0.7518
Chloromethane	2.00	14056.0000	0.2471	5.00	37656.0000	0.2789	20.0	169543.000	0.3017
1,1,1-Trichloroethane	2.00	14284.0000	0.2511	5.00	46362.0000	0.3434	20.0	240250.000	0.4275
1,1,2-Trichloroethane	2.00	6995.00000	0.1718	5.00	18567.0000	0.1893	20.0	80316.0000	0.1944
1,2,4-Trichlorobenzene	2.00	13797.0000	0.6005	5.00	35236.0000	0.6275	20.0	170762.000	0.7049
1,2-Dichlorobenzene	2.00	20148.0000	0.8769	5.00	52836.0000	0.9409	20.0	241736.000	0.9978
1,2-Dichloroethane	2.00	18683.0000	0.3284	5.00	49174.0000	0.3642	20.0	208067.000	0.3702
1,3-Dichlorobenzene	2.00	21553.0000	0.9381	5.00	56922.0000	1.014	20.0	260893.000	1.077
1,4-Dichlorobenzene	2.00	24026.0000	1.046	5.00	60389.0000	1.076	20.0	272238.000	1.124
1,4-Dioxane	50.0	741.000000	0.0005000	100	2184.00000	0.0008000	150	4937.00000	0.001200
2-Butanone	NA	NA	NA	5.00	7202.00000	0.05330	20.0	35956.0000	0.06400
2-Hexanone	NA	NA	NA	5.00	9934.00000	0.1013	20.0	50209.0000	0.1215
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4590.00000	0.03400	20.0	26580.0000	0.04730
Acetone	NA	NA	NA	5.00	6422.00000	0.04760	20.0	25598.0000	0.04550
Acrylonitrile	2.00	1760.00000	0.03090	5.00	5216.00000	0.03860	20.0	27758.0000	0.04940
Benzene	2.00	37198.0000	0.6539	5.00	100756.000	0.7463	20.0	458791.000	0.8164
Bromodichloromethane	2.00	14941.0000	0.2627	5.00	40999.0000	0.3037	20.0	186160.000	0.3312
Bromomethane	2.00	3691.00000	0.06490	5.00	12078.0000	0.08950	20.0	73020.0000	0.1299
Carbon Disulfide	2.00	21241.0000	0.3734	5.00	58973.0000	0.4368	20.0	343762.000	0.6117
Carbon Tetrachloride	2.00	10739.0000	0.1888	5.00	36796.0000	0.2725	20.0	197031.000	0.3506
Chloroethane	2.00	6644.00000	0.1168	5.00	17819.0000	0.1320	20.0	96918.0000	0.1725
Dibromochloromethane	2.00	8595.00000	0.2111	5.00	22302.0000	0.2274	20.0	104110.000	0.2519
Methyl Tert Butyl Ether	2.00	21662.0000	0.3808	5.00	56087.0000	0.4154	20.0	273014.000	0.4858
Methylene Chloride	2.00	10938.0000	0.1923	5.00	24838.0000	0.1840	20.0	103270.000	0.1838
Styrene	2.00	26279.0000	0.6454	5.00	75081.0000	0.7654	20.0	366268.000	0.8863
Tetrachloroethene	2.00	6882.00000	0.1690	5.00	20377.0000	0.2077	20.0	103033.000	0.2493
Trichloroethene	2.00	6771.00000	0.1190	5.00	20644.0000	0.1529	20.0	103831.000	0.1848
Vinyl Acetate	NA	NA	NA	5.00	38959.0000	0.2886	20.0	185549.000	0.3302
cis-1,2-Dichloroethene	2.00	9369.00000	0.1647	5.00	25212.0000	0.1867	20.0	119836.000	0.2132
cis-1,3-Dichloropropene	2.00	14338.0000	0.2521	5.00	39961.0000	0.2960	20.0	192254.000	0.3421
m-,p-Xylene	4.00	30558.0000	0.3752	10.0	88429.0000	0.4508	40.0	422748.000	0.5115
o-Xylene	2.00	13599.0000	0.3340	5.00	41797.0000	0.4261	20.0	204836.000	0.4957
trans-1,2-Dichloroethene	2.00	7868.00000	0.1383	5.00	22410.0000	0.1660	20.0	111072.000	0.1976

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	562131.000	0.3769	100	1141885.00	0.3636	200	2436117.00	0.3805
1,2-Dichloropropane	50.0	322549.000	0.2163	100	704787.000	0.2244	200	1520359.00	0.2375
Chloroform	50.0	680375.000	0.4562	100	1393348.00	0.4437	200	2885625.00	0.4508
Ethylbenzene	50.0	445584.000	0.4038	100	969141.000	0.3965	200	2039560.00	0.3840
Toluene	50.0	1209595.00	1.096	100	2511236.00	1.027	200	5294261.00	0.9967
Vinyl Chloride	50.0	317455.000	0.2129	100	563286.000	0.1794	200	1071861.00	0.1674
1,1,2,2-Tetrachloroethane	50.0	272945.000	0.4203	100	615154.000	0.4430	200	1323514.00	0.4415
1,1-Dichloroethane	50.0	680789.000	0.4565	100	1406692.00	0.4479	200	2938297.00	0.4590
Bromoform	50.0	167457.000	0.1518	100	384923.000	0.1575	200	828892.000	0.1560
Chlorobenzene	50.0	822625.000	0.7455	100	1787747.00	0.7313	200	3759113.00	0.7077
Chloromethane	50.0	402302.000	0.2697	100	852946.000	0.2716	200	1973945.00	0.3083
1,1,1-Trichloroethane	50.0	650539.000	0.4362	100	1374210.00	0.4376	200	2782956.00	0.4347
1,1,2-Trichloroethane	50.0	214580.000	0.1945	100	474392.000	0.1941	200	1029927.00	0.1939
1,2,4-Trichlorobenzene	50.0	459816.000	0.7080	100	978864.000	0.7049	200	1997794.00	0.6664
1,2-Dichlorobenzene	50.0	644553.000	0.9924	100	1370231.00	0.9867	200	2814978.00	0.9389
1,2-Dichloroethane	50.0	539583.000	0.3618	100	1087561.00	0.3463	200	2177668.00	0.3402
1,3-Dichlorobenzene	50.0	698094.000	1.075	100	1482306.00	1.067	200	3086815.00	1.030
1,4-Dichlorobenzene	50.0	717858.000	1.105	100	1522735.00	1.097	200	3139083.00	1.047
1,4-Dioxane	200	7596.00000	0.001300	400	20165.0000	0.001600	NA	NA	NA
2-Butanone	50.0	99317.0000	0.06660	100	221029.000	0.07040	200	481146.000	0.07520
2-Hexanone	50.0	148924.000	0.1350	100	342021.000	0.1399	200	741638.000	0.1396
4-Methyl-2-Pentanone	50.0	74987.0000	0.05030	100	180280.000	0.05740	200	404576.000	0.06320
Acetone	50.0	70387.0000	0.04720	100	143288.000	0.04560	200	331088.000	0.05170
Acrylonitrile	50.0	78345.0000	0.05250	100	172536.000	0.05490	200	395960.000	0.06190
Benzene	50.0	1225188.00	0.8215	100	2621867.00	0.8349	200	5190201.00	0.8107
Bromodichloromethane	50.0	500728.000	0.3357	100	1070111.00	0.3408	200	2256520.00	0.3525
Bromomethane	50.0	223555.000	0.1499	100	499768.000	0.1591	200	1057992.00	0.1653
Carbon Disulfide	50.0	915546.000	0.6139	100	1888566.00	0.6014	200	4114624.00	0.6427
Carbon Tetrachloride	50.0	519252.000	0.3482	100	1082844.00	0.3448	200	2197062.00	0.3432
Chloroethane	50.0	279241.000	0.1872	100	623362.000	0.1985	200	1270360.00	0.1984
Dibromochloromethane	50.0	287162.000	0.2602	100	643565.000	0.2633	200	1373056.00	0.2585
Methyl Tert Butyl Ether	50.0	749527.000	0.5026	100	1578651.00	0.5027	200	3287582.00	0.5135
Methylene Chloride	50.0	276619.000	0.1855	100	630171.000	0.2007	200	1432491.00	0.2238
Styrene	50.0	1004569.00	0.9104	100	2200845.00	0.9003	200	4676870.00	0.8805
Tetrachloroethene	50.0	273731.000	0.2481	100	569707.000	0.2331	200	1199421.00	0.2258
Trichloroethene	50.0	278920.000	0.1870	100	612889.000	0.1952	200	1264126.00	0.1975
Vinyl Acetate	50.0	492502.000	0.3302	100	1057529.00	0.3368	200	2173766.00	0.3396
cis-1,2-Dichloroethene	50.0	319303.000	0.2141	100	662548.000	0.2110	200	1384922.00	0.2163
cis-1,3-Dichloropropene	50.0	528341.000	0.3543	100	1143283.00	0.3641	200	2442187.00	0.3815
m-,p-Xylene	100	1129083.00	0.5116	200	2425557.00	0.4961	400	4958617.00	0.4668
o-Xylene	50.0	552223.000	0.5004	100	1203757.00	0.4924	200	2553083.00	0.4806
trans-1,2-Dichloroethene	50.0	297999.000	0.1998	100	617709.000	0.1967	200	1269936.00	0.1984

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS6
Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	600	27801.0000	0.001400
2-Butanone	300	672287.000	0.06570
2-Hexanone	300	1020911.00	0.1373
4-Methyl-2-Pentanone	NA	NA	NA
Acetone	300	425575.000	0.04160
Acrylonitrile	NA	NA	NA
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	300	3273009.00	0.3197
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

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INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	6737.00000	0.3375

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INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	14567.0000	0.3577	5.00	40654.0000	0.4145	20.0	193074.000	0.4672

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INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	518589.000	0.4700	100	1123613.00	0.4597	200	2400145.00	0.4519

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	1.00	6393.00000	0.4071	2.00	13566.0000	0.4272
1,2-Dichloropropane	NA	NA	NA	1.00	3254.00000	0.2072	2.00	8013.00000	0.2523
Chloroform	NA	NA	NA	1.00	7976.00000	0.5079	2.00	15792.0000	0.4973
Ethylbenzene	NA	NA	NA	1.00	4761.00000	0.5005	2.00	9446.00000	0.4974
Toluene	NA	NA	NA	1.00	12626.0000	1.327	2.00	30014.0000	1.580
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	6925.00000	0.2181
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	3345.00000	0.7776	2.00	6577.00000	0.7594
1,1-Dichloroethane	NA	NA	NA	1.00	8631.00000	0.5496	2.00	16963.0000	0.5342
Bromoform	NA	NA	NA	NA	NA	NA	2.00	2429.00000	0.1279
Chlorobenzene	NA	NA	NA	1.00	9933.00000	1.044	2.00	19044.0000	1.003
Chloromethane	NA	NA	NA	1.00	6439.00000	0.4100	2.00	10808.0000	0.3403
1,1,1-Trichloroethane	NA	NA	NA	1.00	6199.00000	0.3948	2.00	13170.0000	0.4147
1,1,2-Trichloroethane	NA	NA	NA	1.00	2516.00000	0.2645	2.00	5653.00000	0.2977
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	2950.00000	0.6858	2.00	6557.00000	0.7571
1,2-Dichlorobenzene	NA	NA	NA	1.00	5430.00000	1.262	2.00	10544.0000	1.217
1,2-Dichloroethane	NA	NA	NA	1.00	6043.00000	0.3848	2.00	13057.0000	0.4112
1,3-Dichlorobenzene	NA	NA	NA	1.00	6160.00000	1.432	2.00	11894.0000	1.373
1,4-Dichlorobenzene	NA	NA	NA	1.00	7367.00000	1.713	2.00	13568.0000	1.567
1,4-Dioxane	NA	NA	NA	NA	NA	NA	50.0	960.000000	0.001200
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	2.00	4290.00000	0.2259
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	2.00	2075.00000	0.06530
Benzene	NA	NA	NA	1.00	15706.0000	1.000	2.00	34249.0000	1.079
Bromodichloromethane	NA	NA	NA	1.00	4703.00000	0.2995	2.00	9583.00000	0.3018
Bromomethane	NA	NA	NA	1.00	1597.00000	0.1017	2.00	3401.00000	0.1071
Carbon Disulfide	NA	NA	NA	1.00	15811.0000	1.007	2.00	29433.0000	0.9268
Carbon Tetrachloride	NA	NA	NA	1.00	3662.00000	0.2332	2.00	9059.00000	0.2853
Chloroethane	NA	NA	NA	1.00	2807.00000	0.1787	2.00	5257.00000	0.1655
Dibromochloromethane	NA	NA	NA	NA	NA	NA	2.00	4240.00000	0.2233
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	17468.0000	0.5501
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	10422.0000	0.3282
Styrene	NA	NA	NA	NA	NA	NA	2.00	13650.0000	0.7188
Tetrachloroethene	NA	NA	NA	1.00	2776.00000	0.2918	2.00	5518.00000	0.2906
Trichloroethene	NA	NA	NA	1.00	3175.00000	0.2022	2.00	6691.00000	0.2107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	14317.0000	0.4508
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3619.00000	0.2305	2.00	7779.00000	0.2450
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	2.00	9719.00000	0.3060
m-,p-Xylene	1.00	5660.00000	0.5719	2.00	11146.0000	0.5858	4.00	23579.0000	0.6208
o-Xylene	NA	NA	NA	1.00	3824.00000	0.4020	2.00	9538.00000	0.5022
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3365.00000	0.2143	2.00	7448.00000	0.2345

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	36896.0000	0.4476	20.0	156692.000	0.4683	50.0	412211.000	0.5025
1,2-Dichloropropane	5.00	21008.0000	0.2549	20.0	86489.0000	0.2585	50.0	235779.000	0.2874
Chloroform	5.00	42879.0000	0.5202	20.0	169069.000	0.5053	50.0	446055.000	0.5438
Ethylbenzene	5.00	26651.0000	0.5399	20.0	115596.000	0.5708	50.0	311046.000	0.6262
Toluene	5.00	83438.0000	1.690	20.0	356327.000	1.759	50.0	951503.000	1.916
Vinyl Chloride	5.00	16451.0000	0.1996	20.0	61278.0000	0.1832	50.0	155260.000	0.1893
1,1,2,2-Tetrachloroethane	5.00	18301.0000	0.7999	20.0	69709.0000	0.7375	50.0	197663.000	0.8470
1,1-Dichloroethane	5.00	46079.0000	0.5590	20.0	183109.000	0.5473	50.0	477051.000	0.5815
Bromoform	5.00	7264.00000	0.1471	20.0	30815.0000	0.1522	50.0	92350.0000	0.1859
Chlorobenzene	5.00	50596.0000	1.025	20.0	200813.000	0.9915	50.0	537818.000	1.083
Chloromethane	5.00	25485.0000	0.3092	20.0	97925.0000	0.2927	50.0	238892.000	0.2912
1,1,1-Trichloroethane	5.00	36085.0000	0.4378	20.0	148594.000	0.4441	50.0	388224.000	0.4733
1,1,2-Trichloroethane	5.00	14699.0000	0.2978	20.0	57520.0000	0.2840	50.0	160693.000	0.3235
1,2,4-Trichlorobenzene	5.00	17715.0000	0.7743	20.0	77361.0000	0.8185	50.0	225695.000	0.9672
1,2-Dichlorobenzene	5.00	29594.0000	1.293	20.0	117796.000	1.246	50.0	320823.000	1.375
1,2-Dichloroethane	5.00	35252.0000	0.4277	20.0	136303.000	0.4074	50.0	366257.000	0.4465
1,3-Dichlorobenzene	5.00	33534.0000	1.466	20.0	134724.000	1.425	50.0	361829.000	1.551
1,4-Dichlorobenzene	5.00	34966.0000	1.528	20.0	136799.000	1.447	50.0	364265.000	1.561
1,4-Dioxane	100	2487.00000	0.001500	150	3412.00000	0.001400	200	6625.00000	0.002000
2-Butanone	5.00	9520.00000	0.1155	20.0	30969.0000	0.09260	50.0	90902.0000	0.1108
2-Hexanone	5.00	8633.00000	0.1749	20.0	40072.0000	0.1979	50.0	127211.000	0.2561
4-Methyl-2-Pentanone	5.00	5157.00000	0.06260	20.0	23191.0000	0.06930	50.0	69458.0000	0.08470
Acetone	5.00	10220.0000	0.1240	20.0	23803.0000	0.07110	50.0	64842.0000	0.07900
Acrylonitrile	5.00	4904.00000	0.05950	20.0	22897.0000	0.06840	50.0	69006.0000	0.08410
Benzene	5.00	90941.0000	1.103	20.0	363548.000	1.087	50.0	951282.000	1.160
Bromodichloromethane	5.00	26456.0000	0.3210	20.0	112426.000	0.3360	50.0	309859.000	0.3777
Bromomethane	5.00	7993.00000	0.09700	20.0	34963.0000	0.1045	50.0	95227.0000	0.1161
Carbon Disulfide	5.00	71112.0000	0.8627	20.0	302228.000	0.9033	50.0	780732.000	0.9517
Carbon Tetrachloride	5.00	24711.0000	0.2998	20.0	109746.000	0.3280	50.0	291285.000	0.3551
Chloroethane	5.00	15115.0000	0.1834	20.0	56124.0000	0.1677	50.0	146967.000	0.1792
Dibromochloromethane	5.00	12361.0000	0.2504	20.0	55464.0000	0.2739	50.0	161009.000	0.3241
Methyl Tert Butyl Ether	5.00	47996.0000	0.5823	20.0	209936.000	0.6275	50.0	617880.000	0.7532
Methylene Chloride	5.00	24991.0000	0.3032	20.0	83872.0000	0.2507	50.0	218794.000	0.2667
Styrene	5.00	45367.0000	0.9190	20.0	205246.000	1.013	50.0	579871.000	1.167
Tetrachloroethene	5.00	15175.0000	0.3074	20.0	65599.0000	0.3239	50.0	170532.000	0.3433
Trichloroethene	5.00	17908.0000	0.2173	20.0	74427.0000	0.2225	50.0	198950.000	0.2425
Vinyl Acetate	5.00	34394.0000	0.4173	20.0	144304.000	0.4313	50.0	450260.000	0.5489
cis-1,2-Dichloroethene	5.00	21509.0000	0.2609	20.0	86093.0000	0.2573	50.0	229982.000	0.2804
cis-1,3-Dichloropropene	5.00	29275.0000	0.3551	20.0	130047.000	0.3887	50.0	372613.000	0.4542
m-,p-Xylene	10.0	66804.0000	0.6766	40.0	279515.000	0.6901	100	749507.000	0.7545
o-Xylene	5.00	27361.0000	0.5543	20.0	125671.000	0.6205	50.0	352077.000	0.7088
trans-1,2-Dichloroethene	5.00	21611.0000	0.2622	20.0	88416.0000	0.2643	50.0	229210.000	0.2794

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	832531.000	0.4962	200	1504017.00	0.4625	NA	NA	NA
1,2-Dichloropropane	100	480649.000	0.2864	200	905931.000	0.2786	NA	NA	NA
Chloroform	100	903271.000	0.5383	200	1627555.00	0.5005	NA	NA	NA
Ethylbenzene	100	601327.000	0.6124	200	1121306.00	0.5909	NA	NA	NA
Toluene	100	1886524.00	1.921	200	3557692.00	1.875	NA	NA	NA
Vinyl Chloride	100	286506.000	0.1707	200	500174.000	0.1538	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	355195.000	0.7746	200	705193.000	0.7848	NA	NA	NA
1,1-Dichloroethane	100	977894.000	0.5828	200	1731421.00	0.5324	NA	NA	NA
Bromoform	100	169772.000	0.1729	200	333140.000	0.1756	NA	NA	NA
Chlorobenzene	100	1024707.00	1.044	200	1885988.00	0.9939	NA	NA	NA
Chloromethane	100	459282.000	0.2737	200	959711.000	0.2951	NA	NA	NA
1,1,1-Trichloroethane	100	790925.000	0.4714	200	1405524.00	0.4322	NA	NA	NA
1,1,2-Trichloroethane	100	302413.000	0.3080	200	555741.000	0.2929	NA	NA	NA
1,2,4-Trichlorobenzene	100	437389.000	0.9538	200	815612.000	0.9077	NA	NA	NA
1,2-Dichlorobenzene	100	614087.000	1.339	200	1152410.00	1.283	NA	NA	NA
1,2-Dichloroethane	100	723954.000	0.4314	200	1289849.00	0.3966	NA	NA	NA
1,3-Dichlorobenzene	100	683969.000	1.492	200	1278695.00	1.423	NA	NA	NA
1,4-Dichlorobenzene	100	687968.000	1.500	200	1268732.00	1.412	NA	NA	NA
1,4-Dioxane	400	13644.0000	0.002000	NA	NA	NA	600	20425.0000	0.002000
2-Butanone	100	170016.000	0.1013	200	320464.000	0.09850	300	575724.000	0.1134
2-Hexanone	100	232440.000	0.2367	200	475176.000	0.2504	300	762913.000	0.2640
4-Methyl-2-Pentanone	100	129991.000	0.07750	200	261419.000	0.08040	300	431135.000	0.08490
Acetone	100	119224.000	0.07110	200	222409.000	0.06840	NA	NA	NA
Acrylonitrile	100	138058.000	0.08230	200	261513.000	0.08040	300	407809.000	0.08040
Benzene	100	1908422.00	1.137	200	3443505.00	1.059	NA	NA	NA
Bromodichloromethane	100	618856.000	0.3688	200	1160199.00	0.3568	NA	NA	NA
Bromomethane	100	195989.000	0.1168	200	397037.000	0.1221	NA	NA	NA
Carbon Disulfide	100	1535985.00	0.9154	200	2765655.00	0.8504	NA	NA	NA
Carbon Tetrachloride	100	587410.000	0.3501	200	1063328.00	0.3270	NA	NA	NA
Chloroethane	100	299319.000	0.1784	200	585303.000	0.1800	NA	NA	NA
Dibromochloromethane	100	310238.000	0.3159	200	584740.000	0.3081	NA	NA	NA
Methyl Tert Butyl Ether	100	1236750.00	0.7370	200	2168088.00	0.6667	NA	NA	NA
Methylene Chloride	100	425995.000	0.2539	200	786904.000	0.2420	NA	NA	NA
Styrene	100	1129465.00	1.150	200	2126229.00	1.121	NA	NA	NA
Tetrachloroethene	100	331921.000	0.3380	200	623274.000	0.3285	NA	NA	NA
Trichloroethene	100	400818.000	0.2389	200	727344.000	0.2237	NA	NA	NA
Vinyl Acetate	100	891726.000	0.5314	200	1575238.00	0.4844	300	2710030.00	0.5340
cis-1,2-Dichloroethene	100	470924.000	0.2807	200	839787.000	0.2582	NA	NA	NA
cis-1,3-Dichloropropene	100	753697.000	0.4492	200	1426324.00	0.4386	NA	NA	NA
m-,p-Xylene	200	1453870.00	0.7403	400	2662835.00	0.7016	NA	NA	NA
o-Xylene	100	686142.000	0.6988	200	1305696.00	0.6881	NA	NA	NA
trans-1,2-Dichloroethene	100	469986.000	0.2801	200	839949.000	0.2583	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	4563.00000	0.4797	2.00	10288.0000	0.5417

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	27404.0000	0.5551	20.0	123023.000	0.6074	50.0	356535.000	0.7178

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	677983.000	0.6905	200	1251013.00	0.6593	NA	NA	NA

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	20.4	ug/L	0.365	1.90	25	
1,2-Dichloropropane	CCC	20.0	21.5	ug/L	0.221	7.30	25	
Chloroform	CCC	20.0	21.8	ug/L	0.462	8.90	25	
Ethylbenzene	CCC	20.0	23.5	ug/L	0.416	17.3	25	
Toluene	CCC	20.0	22.5	ug/L	1.11	12.5	25	
Vinyl Chloride	CCC	20.0	24.1	ug/L	0.223	20.6	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.7	ug/L	0.409	3.70	25	
1,1-Dichloroethane	SPCC	20.0	22.1	ug/L	0.460	10.3	25	
Bromoform	SPCC	20.0	18.9	ug/L	0.141	5.60	25	
Chlorobenzene	SPCC	20.0	21.5	ug/L	0.767	7.70	25	
Chloromethane	SPCC	20.0	21.5	ug/L	0.302	7.70	25	
1,1,1-Trichloroethane		20.0	20.2	ug/L	0.431	1.20	25	
1,1,2-Trichloroethane		20.0	20.9	ug/L	0.195	4.60	25	
1,2,4-Trichlorobenzene		20.0	22.5	ug/L	0.739	12.3	25	
1,2-Dichlorobenzene		20.0	22.0	ug/L	1.03	10.1	25	
1,2-Dichloroethane		20.0	20.6	ug/L	0.360	2.80	25	
1,3-Dichlorobenzene		20.0	21.7	ug/L	1.11	8.60	25	
1,4-Dichlorobenzene		20.0	20.8	ug/L	1.14	4.10	25	
1,4-Dioxane		200	177	ug/L	0.00160	11.6	25	
2-Butanone		20.0	21.0	ug/L	0.0692	5.00	25	
2-Hexanone		20.0	18.7	ug/L	0.120	6.70	25	
4-Methyl-2-Pentanone		20.0	21.7	ug/L	0.0485	8.50	25	
Acetone		20.0	21.2	ug/L	0.0492	5.80	25	
Acrylonitrile		20.0	20.9	ug/L	0.0511	4.50	25	
Benzene		20.0	22.2	ug/L	0.835	10.9	25	
Bromodichloromethane		20.0	22.6	ug/L	0.343	13.1	25	
Bromomethane		20.0	18.3	ug/L	0.128	8.70	25	
Carbon Disulfide		20.0	19.0	ug/L	0.550	5.10	25	
Carbon Tetrachloride		20.0	20.8	ug/L	0.352	3.80	25	
Dibromochloromethane		20.0	19.5	ug/L	0.251	2.40	25	
Chloroethane		20.0	19.9	ug/L	0.182	0.600	25	
cis-1,2-Dichloroethene		20.0	23.4	ug/L	0.223	16.8	25	
cis-1,3-Dichloropropene		20.0	20.1	ug/L	0.346	0.600	25	
Methylene Chloride		20.0	19.0	ug/L	0.192	4.90	25	
Methyl Tert Butyl Ether		20.0	20.5	ug/L	0.501	2.60	25	
Styrene		20.0	20.3	ug/L	0.909	1.40	25	
Tetrachloroethene		20.0	23.2	ug/L	0.252	15.9	25	
trans-1,2-Dichloroethene		20.0	20.5	ug/L	0.200	2.40	25	
trans-1,3-Dichloropropene		20.0	18.9	ug/L	0.400	5.40	25	
Trichloroethene		20.0	21.4	ug/L	0.199	7.10	25	
Vinyl Acetate		20.0	10.5	ug/L	0.170	47.6	25	*
Xylenes		60.0	67.8	ug/L	0.517	12.9	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	20.6	ug/L	0.508	2.80	25	
m-,p-Xylene		40.0	47.2	ug/L	0.526	18.0	25	
1,2-Dichloroethene		40.0	43.8	ug/L	0.211	9.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/kg	0.447	2.50	25	
1,2-Dichloropropane	CCC	20.0	21.4	ug/kg	0.279	6.90	25	
Chloroform	CCC	20.0	20.6	ug/kg	0.532	3.00	25	
Ethylbenzene	CCC	20.0	22.1	ug/kg	0.623	10.7	25	
Toluene	CCC	20.0	21.9	ug/kg	1.89	9.70	25	
Vinyl Chloride	CCC	20.0	19.4	ug/kg	0.180	3.10	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/kg	0.871	11.2	25	
1,1-Dichloroethane	SPCC	20.0	20.2	ug/kg	0.562	1.20	25	
Bromoform	SPCC	20.0	21.3	ug/kg	0.171	6.40	25	
Chlorobenzene	SPCC	20.0	21.1	ug/kg	1.08	5.70	25	
Chloromethane	SPCC	20.0	16.8	ug/kg	0.265	16.1	25	
1,1,1-Trichloroethane		20.0	20.5	ug/kg	0.449	2.30	25	
1,1,2-Trichloroethane		20.0	22.3	ug/kg	0.329	11.3	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.897	7.10	25	
1,2-Dichlorobenzene		20.0	21.7	ug/kg	1.40	8.60	25	
1,2-Dichloroethane		20.0	20.4	ug/kg	0.423	2.00	25	
1,3-Dichlorobenzene		20.0	21.4	ug/kg	1.55	7.10	25	
1,4-Dichlorobenzene		20.0	20.0	ug/kg	1.54	0.200	25	
1,4-Dioxane		150	216	ug/kg	0.00270	43.9	25	*
2-Butanone		20.0	23.4	ug/kg	0.124	17.2	25	
2-Hexanone		20.0	20.4	ug/kg	0.234	1.90	25	
4-Methyl-2-Pentanone		20.0	19.9	ug/kg	0.0763	0.400	25	
Acetone		20.0	22.2	ug/kg	0.0905	11.2	25	
Acrylonitrile		20.0	22.4	ug/kg	0.0834	12.1	25	
Benzene		20.0	20.8	ug/kg	1.13	4.10	25	
Bromodichloromethane		20.0	21.9	ug/kg	0.369	9.50	25	
Bromomethane		20.0	19.3	ug/kg	0.105	3.60	25	
Carbon Disulfide		20.0	17.0	ug/kg	0.781	14.8	25	
Carbon Tetrachloride		20.0	20.5	ug/kg	0.319	2.50	25	
Dibromochloromethane		20.0	21.7	ug/kg	0.307	8.60	25	
Chloroethane		20.0	19.0	ug/kg	0.168	4.80	25	
cis-1,2-Dichloroethene		20.0	21.2	ug/kg	0.275	6.20	25	
cis-1,3-Dichloropropene		20.0	20.8	ug/kg	0.414	3.80	25	
Methylene Chloride		20.0	19.2	ug/kg	0.263	4.10	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/kg	0.692	6.00	25	
Styrene		20.0	20.0	ug/kg	1.11	0.200	25	
Tetrachloroethene		20.0	20.5	ug/kg	0.326	2.60	25	
trans-1,2-Dichloroethene		20.0	20.2	ug/kg	0.259	1.00	25	
trans-1,3-Dichloropropene		20.0	20.2	ug/kg	0.613	1.00	25	
Trichloroethene		20.0	20.8	ug/kg	0.231	4.00	25	
Vinyl Acetate		20.0	10.3	ug/kg	0.249	48.7	25	*
Xylenes		60.0	65.5	ug/kg	0.723	9.20	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	41.4	ug/kg	0.267	3.60	25	
o-Xylene		20.0	20.5	ug/kg	0.694	2.60	25	
m-,p-Xylene		40.0	45.0	ug/kg	0.751	12.5	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/23/2008 Sample ID: WG272155-02
Instrument ID: HPMS6 Run Time: 10:16 Method: 8260B
File ID: 6M75354 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG272157 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	50.6	ug/L	0.368	1.23	20	
1,2-Dichloropropane	CCC	50.0	52.7	ug/L	0.217	5.39	20	
Chloroform	CCC	50.0	51.2	ug/L	0.435	2.39	20	
Ethylbenzene	CCC	50.0	57.2	ug/L	0.405	14.3	20	
Toluene	CCC	50.0	57.9	ug/L	1.14	15.7	20	
Vinyl Chloride	CCC	50.0	47.1	ug/L	0.174	5.82	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.8	ug/L	0.392	0.479	20	
1,1-Dichloroethane	SPCC	50.0	52.5	ug/L	0.438	5.01	20	
Bromoform	SPCC	50.0	45.2	ug/L	0.139	9.57	20	
Chlorobenzene	SPCC	50.0	51.2	ug/L	0.729	2.30	20	
Chloromethane	SPCC	50.0	45.9	ug/L	0.257	8.16	20	
1,1,1-Trichloroethane		50.0	47.7	ug/L	0.413	4.55	20	
1,1,2-Trichloroethane		50.0	49.2	ug/L	0.184	1.54	20	
1,2,4-Trichlorobenzene		50.0	54.2	ug/L	0.713	8.36	20	
1,2-Dichlorobenzene		50.0	53.1	ug/L	0.995	6.28	20	
1,2-Dichloroethane		50.0	45.5	ug/L	0.319	9.06	20	
1,3-Dichlorobenzene		50.0	54.3	ug/L	1.11	8.54	20	
1,4-Dichlorobenzene		50.0	51.8	ug/L	1.13	3.67	20	
1,4-Dioxane		200	205	ug/L	0.00150	2.45	20	
2-Butanone		50.0	42.8	ug/L	0.0564	14.3	20	
2-Hexanone		50.0	42.8	ug/L	0.111	14.4	20	
4-Methyl-2-Pentanone		50.0	40.1	ug/L	0.0431	19.8	20	
Acetone		50.0	45.7	ug/L	0.0425	8.59	20	
Acrylonitrile		50.0	48.0	ug/L	0.0495	4.10	20	
Benzene		50.0	54.1	ug/L	0.816	8.29	20	
Bromodichloromethane		50.0	52.3	ug/L	0.317	4.65	20	
Bromomethane		50.0	52.8	ug/L	0.161	5.60	20	
Carbon Disulfide		50.0	52.8	ug/L	0.628	5.55	20	
Carbon Tetrachloride		50.0	48.5	ug/L	0.332	2.94	20	
Dibromochloromethane		50.0	46.9	ug/L	0.243	6.21	20	
Chloroethane		50.0	42.9	ug/L	0.164	14.1	20	
cis-1,2-Dichloroethene		50.0	56.4	ug/L	0.215	12.9	20	
cis-1,3-Dichloropropene		50.0	47.1	ug/L	0.333	5.76	20	
Methylene Chloride		50.0	47.0	ug/L	0.190	5.96	20	
Methyl Tert Butyl Ether		50.0	50.1	ug/L	0.499	0.296	20	
Styrene		50.0	49.1	ug/L	0.890	1.86	20	
Tetrachloroethene		50.0	58.7	ug/L	0.255	17.4	20	
trans-1,2-Dichloroethene		50.0	51.7	ug/L	0.204	3.30	20	
trans-1,3-Dichloropropene		50.0	51.4	ug/L	0.434	2.71	20	
Trichloroethene		50.0	49.7	ug/L	0.190	0.527	20	
Vinyl Acetate		50.0	20.1	ug/L	0.130	59.8	20	*
Xylenes		150	164	ug/L	0.504	9.62	20	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/23/2008 Sample ID: WG272155-02
Instrument ID: HPMS6 Run Time: 10:16 Method: 8260B
File ID: 6M75354 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG272157 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	108	ug/L	0.209	8.10	20	
m-,p-Xylene		100	114	ug/L	0.511	14.5	20	
o-Xylene		50.0	50.0	ug/L	0.497	0.0972	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/20/2008 Sample ID: WG271704-02
Instrument ID: HPMS9 Run Time: 07:15 Method: 8260B
File ID: 9M61991 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG271705 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	48.9	ug/kg	0.448	2.30	20	
1,2-Dichloropropane	CCC	50.0	50.2	ug/kg	0.262	0.359	20	
Chloroform	CCC	50.0	48.1	ug/kg	0.496	3.84	20	
Ethylbenzene	CCC	50.0	51.7	ug/kg	0.581	3.31	20	
Toluene	CCC	50.0	50.2	ug/kg	1.73	0.476	20	
Vinyl Chloride	CCC	50.0	49.6	ug/kg	0.184	0.777	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.9	ug/kg	0.751	4.13	20	
1,1-Dichloroethane	SPCC	50.0	46.2	ug/kg	0.514	7.52	20	
Bromoform	SPCC	50.0	56.5	ug/kg	0.181	13.1	20	
Chlorobenzene	SPCC	50.0	48.5	ug/kg	0.995	3.00	20	
Chloromethane	SPCC	50.0	42.2	ug/kg	0.267	15.7	20	
1,1,1-Trichloroethane		50.0	51.1	ug/kg	0.448	2.27	20	
1,1,2-Trichloroethane		50.0	49.5	ug/kg	0.293	0.918	20	
1,2,4-Trichlorobenzene		50.0	55.7	ug/kg	0.934	11.5	20	
1,2-Dichlorobenzene		50.0	49.7	ug/kg	1.28	0.533	20	
1,2-Dichloroethane		50.0	44.3	ug/kg	0.367	11.5	20	
1,3-Dichlorobenzene		50.0	50.0	ug/kg	1.45	0.0502	20	
1,4-Dichlorobenzene		50.0	47.7	ug/kg	1.46	4.56	20	
1,4-Dioxane		200	238	ug/kg	0.00220	19.0	20	
2-Butanone		50.0	47.0	ug/kg	0.0991	5.93	20	
2-Hexanone		50.0	45.9	ug/kg	0.211	8.16	20	
4-Methyl-2-Pentanone		50.0	54.2	ug/kg	0.0830	8.44	20	
Acetone		50.0	45.4	ug/kg	0.0673	9.27	20	
Acrylonitrile		50.0	53.4	ug/kg	0.0794	6.75	20	
Benzene		50.0	51.3	ug/kg	1.12	2.54	20	
Bromodichloromethane		50.0	51.2	ug/kg	0.345	2.33	20	
Bromomethane		50.0	56.9	ug/kg	0.124	13.8	20	
Carbon Disulfide		50.0	49.4	ug/kg	0.905	1.29	20	
Carbon Tetrachloride		50.0	54.6	ug/kg	0.340	9.30	20	
Dibromochloromethane		50.0	54.5	ug/kg	0.308	8.92	20	
Chloroethane		50.0	50.4	ug/kg	0.177	0.719	20	
cis-1,2-Dichloroethene		50.0	53.3	ug/kg	0.276	6.67	20	
cis-1,3-Dichloropropene		50.0	52.7	ug/kg	0.421	5.49	20	
Methylene Chloride		50.0	45.8	ug/kg	0.251	8.33	20	
Methyl Tert Butyl Ether		50.0	54.0	ug/kg	0.704	7.91	20	
Styrene		50.0	48.5	ug/kg	1.09	2.94	20	
Tetrachloroethene		50.0	51.4	ug/kg	0.326	2.76	20	
trans-1,2-Dichloroethene		50.0	54.3	ug/kg	0.278	8.68	20	
trans-1,3-Dichloropropene		50.0	50.0	ug/kg	0.607	0.00600	20	
Trichloroethene		50.0	56.9	ug/kg	0.253	13.9	20	
Vinyl Acetate		50.0	30.3	ug/kg	0.294	39.4	20	*
Xylenes		150	152	ug/kg	0.679	1.54	20	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/20/2008 Sample ID: WG271704-02
Instrument ID: HPMS9 Run Time: 07:15 Method: 8260B
File ID: 9M61991 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG271705 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	108	ug/kg	0.277	7.68	20	
m-,p-Xylene		100	104	ug/kg	0.694	3.94	20	
o-Xylene		50.0	48.4	ug/kg	0.664	3.24	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271879-02
Instrument ID: HPMS9 Run Time: 08:57 Method: 8260B
File ID: 9M62020 Analyst: FJB QC Key: DOWWV2006
Workgroup (AAB#): WG271883 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	48.8	ug/kg	0.447	2.48	20	
1,2-Dichloropropane	CCC	50.0	50.0	ug/kg	0.261	0.0496	20	
Chloroform	CCC	50.0	49.0	ug/kg	0.506	1.93	20	
Ethylbenzene	CCC	50.0	53.7	ug/kg	0.604	7.32	20	
Toluene	CCC	50.0	52.1	ug/kg	1.80	4.14	20	
Vinyl Chloride	CCC	50.0	55.1	ug/kg	0.205	10.2	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.8	ug/kg	0.795	1.52	20	
1,1-Dichloroethane	SPCC	50.0	44.4	ug/kg	0.493	11.2	20	
Bromoform	SPCC	50.0	65.0	ug/kg	0.208	30.0	20	*
Chlorobenzene	SPCC	50.0	50.1	ug/kg	1.03	0.284	20	
Chloromethane	SPCC	50.0	45.4	ug/kg	0.287	9.16	20	
1,1,1-Trichloroethane		50.0	53.5	ug/kg	0.469	7.08	20	
1,1,2-Trichloroethane		50.0	51.2	ug/kg	0.302	2.35	20	
1,2,4-Trichlorobenzene		50.0	57.7	ug/kg	0.967	15.5	20	
1,2-Dichlorobenzene		50.0	51.7	ug/kg	1.33	3.49	20	
1,2-Dichloroethane		50.0	46.7	ug/kg	0.387	6.66	20	
1,3-Dichlorobenzene		50.0	51.3	ug/kg	1.49	2.60	20	
1,4-Dichlorobenzene		50.0	49.3	ug/kg	1.51	1.50	20	
1,4-Dioxane		200	251	ug/kg	0.00240	25.4	20	*
2-Butanone		50.0	49.9	ug/kg	0.105	0.223	20	
2-Hexanone		50.0	48.4	ug/kg	0.222	3.23	20	
4-Methyl-2-Pentanone		50.0	56.2	ug/kg	0.0860	12.4	20	
Acetone		50.0	49.4	ug/kg	0.0727	1.19	20	
Acrylonitrile		50.0	53.6	ug/kg	0.0796	7.13	20	
Benzene		50.0	52.3	ug/kg	1.14	4.61	20	
Bromodichloromethane		50.0	54.6	ug/kg	0.368	9.10	20	
Bromomethane		50.0	63.2	ug/kg	0.138	26.5	20	*
Carbon Disulfide		50.0	48.6	ug/kg	0.891	2.76	20	
Carbon Tetrachloride		50.0	58.0	ug/kg	0.361	15.9	20	
Dibromochloromethane		50.0	60.1	ug/kg	0.340	20.2	20	*
Chloroethane		50.0	52.8	ug/kg	0.186	5.62	20	
cis-1,2-Dichloroethene		50.0	51.2	ug/kg	0.265	2.48	20	
cis-1,3-Dichloropropene		50.0	55.1	ug/kg	0.440	10.3	20	
Methylene Chloride		50.0	46.2	ug/kg	0.253	7.68	20	
Methyl Tert Butyl Ether		50.0	53.6	ug/kg	0.700	7.26	20	
Styrene		50.0	50.5	ug/kg	1.13	0.984	20	
Tetrachloroethene		50.0	54.4	ug/kg	0.346	8.77	20	
trans-1,2-Dichloroethene		50.0	50.7	ug/kg	0.260	1.31	20	
trans-1,3-Dichloropropene		50.0	53.9	ug/kg	0.655	7.79	20	
Trichloroethene		50.0	58.1	ug/kg	0.259	16.2	20	
Vinyl Acetate		50.0	26.4	ug/kg	0.257	47.1	20	*
Xylenes		150	158	ug/kg	0.704	5.61	20	

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271879-02

Instrument ID: HPMS9 Run Time: 08:57 Method: 8260B

File ID: 9M62020 Analyst: FJB QC Key: DOWWV2006

Workgroup (AAB#): WG271883 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	102	ug/kg	0.262	1.90	20	
m-,p-Xylene		100	109	ug/kg	0.725	8.63	20	
o-Xylene		50.0	49.8	ug/kg	0.683	0.430	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS6
Workgroup (AAB#): WG272157

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	324738	551732	745710
Upper Limit	NA	NA	649476	1103464	1491420
Lower Limit	NA	NA	162369	275866	372855
L08050290-08	1.00	01	248533	457039	645689
WG272157-01	1.00	01	262889	488782	692512
WG272157-02	1.00	01	276890	498395	697941
WG272157-03	1.00	01	284314	510731	710887

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS9
Workgroup (AAB#): WG271705

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050290-02	1.00	01	208391	437886	684712
L08050290-03	1.00	01	175430	403432	643858
L08050290-04	1.00	01	224360	464022	720754
L08050290-05	1.00	01	223053	459505	705287
WG271705-01	1.00	01	229552	482606	746876
WG271705-02	1.00	01	221432	478745	749766

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1104272
Report generated 05/28/2008 09:44

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS9
Workgroup (AAB#): WG271883

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050290-01	1.00	01	180970	401964	647685
L08050290-06	1.00	01	200201	441714	694541
L08050290-07	1.00	01	135203	304147	502454
WG271883-01	1.00	01	207819	435999	673309
WG271883-02	1.00	01	210498	444588	688359

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1104272
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Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS6
Workgroup (AAB#): WG272157

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08050290-08	1.00	01	18.86	15.3	10.83
WG272157-01	1.00	01	18.86	15.3	10.83
WG272157-02	1.00	01	18.86	15.3	10.82
WG272157-03	1.00	01	18.86	15.3	10.82

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1104274
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS9
Workgroup (AAB#): WG271705

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050290-02	1.00	01	15.2	12.23	8.39
L08050290-03	1.00	01	15.21	12.23	8.39
L08050290-04	1.00	01	15.21	12.23	8.39
L08050290-05	1.00	01	15.21	12.23	8.39
WG271705-01	1.00	01	15.21	12.23	8.39
WG271705-02	1.00	01	15.21	12.23	8.39

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1104274
Report generated: 05/28/2008 09:44

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS9
Workgroup (AAB#): WG271883

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050290-01	1.00	01	15.2	12.23	8.39
L08050290-06	1.00	01	15.2	12.23	8.39
L08050290-07	1.00	01	15.2	12.23	8.39
WG271883-01	1.00	01	15.21	12.23	8.4
WG271883-02	1.00	01	15.2	12.23	8.39

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1104274
Report generated: 05/28/2008 09:44

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS SEMIVOLATILE ORGANICS

Microbac Login No: L08050290

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard analyzed on 4/25/08 yielded %D beyond the acceptance limits for 2,4-dinitrophenol (biased high) and 3,3'-dichlorobenzidine (biased low). All other acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS yielded low recoveries for bis(2-chloroethoxy)methane and n-nitrosodiphenylamine; the LCS DUP was acceptable for these compounds. All other acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: Sample 04 yielded a low recovery for 2,4,6-tribromophenol. The sample was re-extracted and yielded acceptable recoveries. All other acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

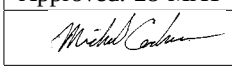
Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: MES, CAA

Approved: 28-MAY-08



LABORATORY REPORT

L08050290

06/02/08 13:03

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0135-SO01-051308	L08050290-01	8270C	1	14-MAY-08
0135-SO02-051308	L08050290-02	8270C	1	14-MAY-08
0134-SO01-051308	L08050290-03	8270C	1	14-MAY-08
0125-SO01-051308	L08050290-04	8270C	1	14-MAY-08
0125-SO01-051308	L08050290-04	8270C	1	14-MAY-08
0126-SO01-051308	L08050290-05	8270C	1	14-MAY-08
0136-SO01-051308	L08050290-06	8270C	1	14-MAY-08
0136-SO02-051308	L08050290-07	8270C	1	14-MAY-08

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-01**
Client ID: **0135-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 10:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 16:13**
File ID: **4M42825**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	177	88.4
2,4,6-Trichlorophenol	88-06-2		U	177	88.4
2,4-Dichlorophenol	120-83-2		U	177	88.4
2,4-Dimethylphenol	105-67-9		U	177	88.4
2,4-Dinitrophenol	51-28-5		U	884	441
2,4-Dinitrotoluene	121-14-2		U	177	88.4
2,6-Dinitrotoluene	606-20-2		U	177	88.4
2-Chloronaphthalene	91-58-7		U	177	88.4
2-Chlorophenol	95-57-8		U	177	88.4
2-Methylnaphthalene	91-57-6		U	177	88.4
2-Methylphenol	95-48-7		U	177	88.4
2-Nitroaniline	88-74-4		U	884	441
2-Nitrophenol	88-75-5		U	177	88.4
3,3'-Dichlorobenzidine	91-94-1		U	354	177
3-,4-Methylphenol	106-44-5		U	177	88.4
3-Nitroaniline	99-09-2		U	884	441
4,6-Dinitro-2-methylphenol	534-52-1		U	884	441
4-Bromophenyl phenyl ether	101-55-3		U	177	88.4
4-Chloro-3-methylphenol	59-50-7		U	177	88.4
4-Chloroaniline	106-47-8		U	177	88.4
4-Chlorophenyl phenyl ether	7005-72-3		U	177	88.4
4-Nitroaniline	100-01-6		U	884	441
4-Nitrophenol	100-02-7		U	884	441
Acenaphthene	83-32-9		U	177	88.4
Acenaphthylene	208-96-8		U	177	88.4
Anthracene	120-12-7		U	177	88.4
Benzo(a)anthracene	56-55-3		U	177	88.4
Benzo(a)pyrene	50-32-8		U	177	88.4
Benzo(b)fluoranthene	205-99-2		U	177	88.4
Benzo(g,h,i)Perylene	191-24-2		U	177	88.4
Benzo(k)fluoranthene	207-08-9		U	177	88.4
Bis(2-Chloroethoxy)Methane	111-91-1		U	177	88.4
Bis(2-Chloroethyl)ether	111-44-4		U	177	88.4
bis(2-Chloroisopropyl)ether	39638-32-9		U	177	88.4
bis(2-Ethylhexyl)phthalate	117-81-7		U	177	88.4
Butyl benzyl phthalate	85-68-7		U	177	88.4
Carbazole	86-74-8		U	177	88.4
Chrysene	218-01-9		U	177	88.4
Dibenz(a,h)anthracene	53-70-3		U	177	88.4
Dibenzofuran	132-64-9		U	177	88.4
Diethyl phthalate	84-66-2		U	177	88.4
Dimethyl phthalate	131-11-3		U	177	88.4
Di-N-Butylphthalate	84-74-2		U	177	88.4
Di-n-octyl phthalate	117-84-0		U	177	88.4
Fluoranthene	206-44-0		U	177	88.4
Fluorene	86-73-7		U	177	88.4
Hexachlorobenzene	118-74-1		U	177	88.4
Hexachlorobutadiene	87-68-3		U	177	88.4
Hexachlorocyclopentadiene	77-47-4		U	177	88.4
Hexachloroethane	67-72-1		U	177	88.4
Indeno(1,2,3-cd)pyrene	193-39-5		U	177	88.4
Isophorone	78-59-1		U	177	88.4
Naphthalene	91-20-3		U	177	88.4
Nitrobenzene	98-95-3		U	177	88.4
N-Nitrosodiphenylamine	86-30-6		U	177	88.4
N-Nitrosodipropylamine	621-64-7		U	177	88.4
Pentachlorophenol	87-86-5		U	884	441
Phenanthrene	85-01-8		U	177	88.4
Phenol	108-95-2		U	177	88.4

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-01	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0135-SO01-051308	Prep Method:	3545	Prep Date:	05/15/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG271546	Analyst:	MES	Run Date:	05/16/2008 16:13
Collect Date:	05/13/2008 10:45	Dilution:	1	File ID:	4M42825
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	177	88.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	52.3	19	122	
2-Fluorobiphenyl	55.2	30	115	
2-Fluorophenol	51.1	25	121	
Nitrobenzene-d5	57.3	23	120	
p-Terphenyl-d14	74.4	18	137	
Phenol-d5	55.0	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-02**
Client ID: **0135-SO02-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 10:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 16:45**
File ID: **4M42826**
Percent Solid: **81.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	198	99.2
2,4,6-Trichlorophenol	88-06-2		U	198	99.2
2,4-Dichlorophenol	120-83-2		U	198	99.2
2,4-Dimethylphenol	105-67-9		U	198	99.2
2,4-Dinitrophenol	51-28-5		U	992	495
2,4-Dinitrotoluene	121-14-2		U	198	99.2
2,6-Dinitrotoluene	606-20-2		U	198	99.2
2-Chloronaphthalene	91-58-7		U	198	99.2
2-Chlorophenol	95-57-8		U	198	99.2
2-Methylnaphthalene	91-57-6		U	198	99.2
2-Methylphenol	95-48-7		U	198	99.2
2-Nitroaniline	88-74-4		U	992	495
2-Nitrophenol	88-75-5		U	198	99.2
3,3'-Dichlorobenzidine	91-94-1		U	397	198
3-,4-Methylphenol	106-44-5		U	198	99.2
3-Nitroaniline	99-09-2		U	992	495
4,6-Dinitro-2-methylphenol	534-52-1		U	992	495
4-Bromophenyl phenyl ether	101-55-3		U	198	99.2
4-Chloro-3-methylphenol	59-50-7		U	198	99.2
4-Chloroaniline	106-47-8		U	198	99.2
4-Chlorophenyl phenyl ether	7005-72-3		U	198	99.2
4-Nitroaniline	100-01-6		U	992	495
4-Nitrophenol	100-02-7		U	992	495
Acenaphthene	83-32-9		U	198	99.2
Acenaphthylene	208-96-8		U	198	99.2
Anthracene	120-12-7		U	198	99.2
Benzo(a)anthracene	56-55-3		U	198	99.2
Benzo(a)pyrene	50-32-8		U	198	99.2
Benzo(b)fluoranthene	205-99-2		U	198	99.2
Benzo(g,h,i)Perylene	191-24-2		U	198	99.2
Benzo(k)fluoranthene	207-08-9		U	198	99.2
Bis(2-Chloroethoxy)Methane	111-91-1		U	198	99.2
Bis(2-Chloroethyl)ether	111-44-4		U	198	99.2
bis(2-Chloroisopropyl)ether	39638-32-9		U	198	99.2
bis(2-Ethylhexyl)phthalate	117-81-7		U	198	99.2
Butyl benzyl phthalate	85-68-7		U	198	99.2
Carbazole	86-74-8		U	198	99.2
Chrysene	218-01-9		U	198	99.2
Dibenz(a,h)anthracene	53-70-3		U	198	99.2
Dibenzofuran	132-64-9		U	198	99.2
Diethyl phthalate	84-66-2		U	198	99.2
Dimethyl phthalate	131-11-3		U	198	99.2
Di-N-Butylphthalate	84-74-2		U	198	99.2
Di-n-octyl phthalate	117-84-0		U	198	99.2
Fluoranthene	206-44-0		U	198	99.2
Fluorene	86-73-7		U	198	99.2
Hexachlorobenzene	118-74-1		U	198	99.2
Hexachlorobutadiene	87-68-3		U	198	99.2
Hexachlorocyclopentadiene	77-47-4		U	198	99.2
Hexachloroethane	67-72-1		U	198	99.2
Indeno(1,2,3-cd)pyrene	193-39-5		U	198	99.2
Isophorone	78-59-1		U	198	99.2
Naphthalene	91-20-3		U	198	99.2
Nitrobenzene	98-95-3		U	198	99.2
N-Nitrosodiphenylamine	86-30-6		U	198	99.2
N-Nitrosodipropylamine	621-64-7		U	198	99.2
Pentachlorophenol	87-86-5		U	992	495
Phenanthrene	85-01-8		U	198	99.2
Phenol	108-95-2		U	198	99.2

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-02	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0135-SO02-051308	Prep Method:	3545	Prep Date:	05/15/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG271546	Analyst:	MES	Run Date:	05/16/2008 16:45
Collect Date:	05/13/2008 10:55	Dilution:	1	File ID:	4M42826
Sample Tag:	01	Units:	ug/kg	Percent Solid:	81.3

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	198	99.2

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	69.9	19	122	
2-Fluorobiphenyl	63.3	30	115	
2-Fluorophenol	62.3	25	121	
Nitrobenzene-d5	64.1	23	120	
p-Terphenyl-d14	73.6	18	137	
Phenol-d5	62.6	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-03**
Client ID: **0134-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 17:18**
File ID: **4M42827**
Percent Solid: **86.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	190	95.2
2,4,6-Trichlorophenol	88-06-2		U	190	95.2
2,4-Dichlorophenol	120-83-2		U	190	95.2
2,4-Dimethylphenol	105-67-9		U	190	95.2
2,4-Dinitrophenol	51-28-5		U	952	475
2,4-Dinitrotoluene	121-14-2		U	190	95.2
2,6-Dinitrotoluene	606-20-2		U	190	95.2
2-Chloronaphthalene	91-58-7		U	190	95.2
2-Chlorophenol	95-57-8		U	190	95.2
2-Methylnaphthalene	91-57-6		U	190	95.2
2-Methylphenol	95-48-7		U	190	95.2
2-Nitroaniline	88-74-4		U	952	475
2-Nitrophenol	88-75-5		U	190	95.2
3,3'-Dichlorobenzidine	91-94-1		U	381	190
3-,4-Methylphenol	106-44-5		U	190	95.2
3-Nitroaniline	99-09-2		U	952	475
4,6-Dinitro-2-methylphenol	534-52-1		U	952	475
4-Bromophenyl phenyl ether	101-55-3		U	190	95.2
4-Chloro-3-methylphenol	59-50-7		U	190	95.2
4-Chloroaniline	106-47-8		U	190	95.2
4-Chlorophenyl phenyl ether	7005-72-3		U	190	95.2
4-Nitroaniline	100-01-6		U	952	475
4-Nitrophenol	100-02-7		U	952	475
Acenaphthene	83-32-9		U	190	95.2
Acenaphthylene	208-96-8		U	190	95.2
Anthracene	120-12-7		U	190	95.2
Benzo(a)anthracene	56-55-3		U	190	95.2
Benzo(a)pyrene	50-32-8		U	190	95.2
Benzo(b)fluoranthene	205-99-2		U	190	95.2
Benzo(g,h,i)Perylene	191-24-2		U	190	95.2
Benzo(k)fluoranthene	207-08-9		U	190	95.2
Bis(2-Chloroethoxy)Methane	111-91-1		U	190	95.2
Bis(2-Chloroethyl)ether	111-44-4		U	190	95.2
bis(2-Chloroisopropyl)ether	39638-32-9		U	190	95.2
bis(2-Ethylhexyl)phthalate	117-81-7		U	190	95.2
Butyl benzyl phthalate	85-68-7		U	190	95.2
Carbazole	86-74-8		U	190	95.2
Chrysene	218-01-9		U	190	95.2
Dibenz(a,h)anthracene	53-70-3		U	190	95.2
Dibenzofuran	132-64-9		U	190	95.2
Diethyl phthalate	84-66-2		U	190	95.2
Dimethyl phthalate	131-11-3		U	190	95.2
Di-N-Butylphthalate	84-74-2		U	190	95.2
Di-n-octyl phthalate	117-84-0		U	190	95.2
Fluoranthene	206-44-0		U	190	95.2
Fluorene	86-73-7		U	190	95.2
Hexachlorobenzene	118-74-1		U	190	95.2
Hexachlorobutadiene	87-68-3		U	190	95.2
Hexachlorocyclopentadiene	77-47-4		U	190	95.2
Hexachloroethane	67-72-1		U	190	95.2
Indeno(1,2,3-cd)pyrene	193-39-5		U	190	95.2
Isophorone	78-59-1		U	190	95.2
Naphthalene	91-20-3		U	190	95.2
Nitrobenzene	98-95-3		U	190	95.2
N-Nitrosodiphenylamine	86-30-6		U	190	95.2
N-Nitrosodipropylamine	621-64-7		U	190	95.2
Pentachlorophenol	87-86-5		U	952	475
Phenanthrene	85-01-8		U	190	95.2
Phenol	108-95-2		U	190	95.2

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-03**
Client ID: **0134-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 17:18**
File ID: **4M42827**
Percent Solid: **86.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	190	95.2

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	41.3	19	122	
2-Fluorobiphenyl	40.9	30	115	
2-Fluorophenol	43.3	25	121	
Nitrobenzene-d5	46.8	23	120	
p-Terphenyl-d14	71.6	18	137	
Phenol-d5	45.9	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-04**
Client ID: **0125-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 17:50**
File ID: **4M42828**
Percent Solid: **83.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	196	98.0
2,4,6-Trichlorophenol	88-06-2		U	196	98.0
2,4-Dichlorophenol	120-83-2		U	196	98.0
2,4-Dimethylphenol	105-67-9		U	196	98.0
2,4-Dinitrophenol	51-28-5		U	980	489
2,4-Dinitrotoluene	121-14-2		U	196	98.0
2,6-Dinitrotoluene	606-20-2		U	196	98.0
2-Chloronaphthalene	91-58-7		U	196	98.0
2-Chlorophenol	95-57-8		U	196	98.0
2-Methylnaphthalene	91-57-6		U	196	98.0
2-Methylphenol	95-48-7		U	196	98.0
2-Nitroaniline	88-74-4		U	980	489
2-Nitrophenol	88-75-5		U	196	98.0
3,3'-Dichlorobenzidine	91-94-1		U	392	196
3-,4-Methylphenol	106-44-5		U	196	98.0
3-Nitroaniline	99-09-2		U	980	489
4,6-Dinitro-2-methylphenol	534-52-1		U	980	489
4-Bromophenyl phenyl ether	101-55-3		U	196	98.0
4-Chloro-3-methylphenol	59-50-7		U	196	98.0
4-Chloroaniline	106-47-8		U	196	98.0
4-Chlorophenyl phenyl ether	7005-72-3		U	196	98.0
4-Nitroaniline	100-01-6		U	980	489
4-Nitrophenol	100-02-7		U	980	489
Acenaphthene	83-32-9		U	196	98.0
Acenaphthylene	208-96-8		U	196	98.0
Anthracene	120-12-7		U	196	98.0
Benzo(a)anthracene	56-55-3		U	196	98.0
Benzo(a)pyrene	50-32-8		U	196	98.0
Benzo(b)fluoranthene	205-99-2		U	196	98.0
Benzo(g,h,i)Perylene	191-24-2		U	196	98.0
Benzo(k)fluoranthene	207-08-9		U	196	98.0
Bis(2-Chloroethoxy)Methane	111-91-1		U	196	98.0
Bis(2-Chloroethyl)ether	111-44-4		U	196	98.0
bis(2-Chloroisopropyl)ether	39638-32-9		U	196	98.0
bis(2-Ethylhexyl)phthalate	117-81-7		U	196	98.0
Butyl benzyl phthalate	85-68-7		U	196	98.0
Carbazole	86-74-8		U	196	98.0
Chrysene	218-01-9		U	196	98.0
Dibenz(a,h)anthracene	53-70-3		U	196	98.0
Dibenzofuran	132-64-9		U	196	98.0
Diethyl phthalate	84-66-2		U	196	98.0
Dimethyl phthalate	131-11-3		U	196	98.0
Di-N-Butylphthalate	84-74-2		U	196	98.0
Di-n-octyl phthalate	117-84-0		U	196	98.0
Fluoranthene	206-44-0		U	196	98.0
Fluorene	86-73-7		U	196	98.0
Hexachlorobenzene	118-74-1		U	196	98.0
Hexachlorobutadiene	87-68-3		U	196	98.0
Hexachlorocyclopentadiene	77-47-4		U	196	98.0
Hexachloroethane	67-72-1		U	196	98.0
Indeno(1,2,3-cd)pyrene	193-39-5		U	196	98.0
Isophorone	78-59-1		U	196	98.0
Naphthalene	91-20-3		U	196	98.0
Nitrobenzene	98-95-3		U	196	98.0
N-Nitrosodiphenylamine	86-30-6		U	196	98.0
N-Nitrosodipropylamine	621-64-7		U	196	98.0
Pentachlorophenol	87-86-5		U	980	489
Phenanthrene	85-01-8		U	196	98.0
Phenol	108-95-2		U	196	98.0

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-04	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0125-SO01-051308	Prep Method:	3545	Prep Date:	05/15/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG271546	Analyst:	MES	Run Date:	05/16/2008 17:50
Collect Date:	05/13/2008 13:20	Dilution:	1	File ID:	4M42828
Sample Tag:	01	Units:	ug/kg	Percent Solid:	83.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	196	98.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	13.5	19	122	*
2-Fluorobiphenyl	64.4	30	115	
2-Fluorophenol	46.1	25	121	
Nitrobenzene-d5	63.0	23	120	
p-Terphenyl-d14	82.7	18	137	
Phenol-d5	55.5	24	113	

U Not detected at or above the reporting limit
***** Surrogate or spike compound out of range

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-04**
Client ID: **0125-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/13/2008 13:20**
Sample Tag: **RE1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/21/2008 13:41**
File ID: **12M21828**
Percent Solid: **83.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	196	97.8
2,4,6-Trichlorophenol	88-06-2		U	196	97.8
2,4-Dichlorophenol	120-83-2		U	196	97.8
2,4-Dimethylphenol	105-67-9		U	196	97.8
2,4-Dinitrophenol	51-28-5		U	978	488
2,4-Dinitrotoluene	121-14-2		U	196	97.8
2,6-Dinitrotoluene	606-20-2		U	196	97.8
2-Chloronaphthalene	91-58-7		U	196	97.8
2-Chlorophenol	95-57-8		U	196	97.8
2-Methylnaphthalene	91-57-6		U	196	97.8
2-Methylphenol	95-48-7		U	196	97.8
2-Nitroaniline	88-74-4		U	978	488
2-Nitrophenol	88-75-5		U	196	97.8
3,3'-Dichlorobenzidine	91-94-1		U	391	196
3-,4-Methylphenol	106-44-5		U	196	97.8
3-Nitroaniline	99-09-2		U	978	488
4,6-Dinitro-2-methylphenol	534-52-1		U	978	488
4-Bromophenyl phenyl ether	101-55-3		U	196	97.8
4-Chloro-3-methylphenol	59-50-7		U	196	97.8
4-Chloroaniline	106-47-8		U	196	97.8
4-Chlorophenyl phenyl ether	7005-72-3		U	196	97.8
4-Nitroaniline	100-01-6		U	978	488
4-Nitrophenol	100-02-7		U	978	488
Acenaphthene	83-32-9		U	196	97.8
Acenaphthylene	208-96-8		U	196	97.8
Anthracene	120-12-7		U	196	97.8
Benzo(a)anthracene	56-55-3		U	196	97.8
Benzo(a)pyrene	50-32-8		U	196	97.8
Benzo(b)fluoranthene	205-99-2		U	196	97.8
Benzo(g,h,i)Perylene	191-24-2		U	196	97.8
Benzo(k)fluoranthene	207-08-9		U	196	97.8
Bis(2-Chloroethoxy)Methane	111-91-1		U	196	97.8
Bis(2-Chloroethyl)ether	111-44-4		U	196	97.8
bis(2-Chloroisopropyl)ether	39638-32-9		U	196	97.8
bis(2-Ethylhexyl)phthalate	117-81-7		U	196	97.8
Butyl benzyl phthalate	85-68-7		U	196	97.8
Carbazole	86-74-8		U	196	97.8
Chrysene	218-01-9		U	196	97.8
Dibenz(a,h)anthracene	53-70-3		U	196	97.8
Dibenzofuran	132-64-9		U	196	97.8
Diethyl phthalate	84-66-2		U	196	97.8
Dimethyl phthalate	131-11-3		U	196	97.8
Di-N-Butylphthalate	84-74-2		U	196	97.8
Di-n-octyl phthalate	117-84-0		U	196	97.8
Fluoranthene	206-44-0		U	196	97.8
Fluorene	86-73-7		U	196	97.8
Hexachlorobenzene	118-74-1		U	196	97.8
Hexachlorobutadiene	87-68-3		U	196	97.8
Hexachlorocyclopentadiene	77-47-4		U	196	97.8
Hexachloroethane	67-72-1		U	196	97.8
Indeno(1,2,3-cd)pyrene	193-39-5		U	196	97.8
Isophorone	78-59-1		U	196	97.8
Naphthalene	91-20-3		U	196	97.8
Nitrobenzene	98-95-3		U	196	97.8
N-Nitrosodiphenylamine	86-30-6		U	196	97.8
N-Nitrosodipropylamine	621-64-7		U	196	97.8
Pentachlorophenol	87-86-5		U	978	488
Phenanthrene	85-01-8		U	196	97.8
Phenol	108-95-2		U	196	97.8

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-04	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0125-SO01-051308	Prep Method:	3545	Prep Date:	05/20/2008 08:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271945	Analyst:	MES	Run Date:	05/21/2008 13:41
Collect Date:	05/13/2008 13:20	Dilution:	1	File ID:	12M21828
Sample Tag:	RE1	Units:	ug/kg	Percent Solid:	83.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	196	97.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	23.1	19	122	
2-Fluorobiphenyl	61.7	30	115	
2-Fluorophenol	50.3	25	121	
Nitrobenzene-d5	53.2	23	120	
p-Terphenyl-d14	82.0	18	137	
Phenol-d5	54.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-05**
Client ID: **0126-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 18:22**
File ID: **4M42829**
Percent Solid: **84.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	194	97.0
2,4,6-Trichlorophenol	88-06-2		U	194	97.0
2,4-Dichlorophenol	120-83-2		U	194	97.0
2,4-Dimethylphenol	105-67-9		U	194	97.0
2,4-Dinitrophenol	51-28-5		U	970	485
2,4-Dinitrotoluene	121-14-2		U	194	97.0
2,6-Dinitrotoluene	606-20-2		U	194	97.0
2-Chloronaphthalene	91-58-7		U	194	97.0
2-Chlorophenol	95-57-8		U	194	97.0
2-Methylnaphthalene	91-57-6		U	194	97.0
2-Methylphenol	95-48-7		U	194	97.0
2-Nitroaniline	88-74-4		U	970	485
2-Nitrophenol	88-75-5		U	194	97.0
3,3'-Dichlorobenzidine	91-94-1		U	388	194
3-,4-Methylphenol	106-44-5		U	194	97.0
3-Nitroaniline	99-09-2		U	970	485
4,6-Dinitro-2-methylphenol	534-52-1		U	970	485
4-Bromophenyl phenyl ether	101-55-3		U	194	97.0
4-Chloro-3-methylphenol	59-50-7		U	194	97.0
4-Chloroaniline	106-47-8		U	194	97.0
4-Chlorophenyl phenyl ether	7005-72-3		U	194	97.0
4-Nitroaniline	100-01-6		U	970	485
4-Nitrophenol	100-02-7		U	970	485
Acenaphthene	83-32-9		U	194	97.0
Acenaphthylene	208-96-8		U	194	97.0
Anthracene	120-12-7		U	194	97.0
Benzo(a)anthracene	56-55-3		U	194	97.0
Benzo(a)pyrene	50-32-8		U	194	97.0
Benzo(b)fluoranthene	205-99-2		U	194	97.0
Benzo(g,h,i)Perylene	191-24-2		U	194	97.0
Benzo(k)fluoranthene	207-08-9		U	194	97.0
Bis(2-Chloroethoxy)Methane	111-91-1		U	194	97.0
Bis(2-Chloroethyl)ether	111-44-4		U	194	97.0
bis(2-Chloroisopropyl)ether	39638-32-9		U	194	97.0
bis(2-Ethylhexyl)phthalate	117-81-7		U	194	97.0
Butyl benzyl phthalate	85-68-7		U	194	97.0
Carbazole	86-74-8		U	194	97.0
Chrysene	218-01-9		U	194	97.0
Dibenz(a,h)anthracene	53-70-3		U	194	97.0
Dibenzofuran	132-64-9		U	194	97.0
Diethyl phthalate	84-66-2		U	194	97.0
Dimethyl phthalate	131-11-3		U	194	97.0
Di-N-Butylphthalate	84-74-2		U	194	97.0
Di-n-octyl phthalate	117-84-0		U	194	97.0
Fluoranthene	206-44-0		U	194	97.0
Fluorene	86-73-7		U	194	97.0
Hexachlorobenzene	118-74-1		U	194	97.0
Hexachlorobutadiene	87-68-3		U	194	97.0
Hexachlorocyclopentadiene	77-47-4		U	194	97.0
Hexachloroethane	67-72-1		U	194	97.0
Indeno(1,2,3-cd)pyrene	193-39-5		U	194	97.0
Isophorone	78-59-1		U	194	97.0
Naphthalene	91-20-3		U	194	97.0
Nitrobenzene	98-95-3		U	194	97.0
N-Nitrosodiphenylamine	86-30-6		U	194	97.0
N-Nitrosodipropylamine	621-64-7		U	194	97.0
Pentachlorophenol	87-86-5		U	970	485
Phenanthrene	85-01-8		U	194	97.0
Phenol	108-95-2		U	194	97.0

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-05	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0126-SO01-051308	Prep Method:	3545	Prep Date:	05/15/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG271546	Analyst:	MES	Run Date:	05/16/2008 18:22
Collect Date:	05/13/2008 13:40	Dilution:	1	File ID:	4M42829
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.3

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	194	97.0

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	51.5	19	122	
2-Fluorobiphenyl	60.0	30	115	
2-Fluorophenol	48.9	25	121	
Nitrobenzene-d5	58.1	23	120	
p-Terphenyl-d14	73.3	18	137	
Phenol-d5	51.6	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-06**
Client ID: **0136-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 14:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 18:54**
File ID: **4M42830**
Percent Solid: **79.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	204	102
2,4,6-Trichlorophenol	88-06-2		U	204	102
2,4-Dichlorophenol	120-83-2		U	204	102
2,4-Dimethylphenol	105-67-9		U	204	102
2,4-Dinitrophenol	51-28-5		U	1020	509
2,4-Dinitrotoluene	121-14-2		U	204	102
2,6-Dinitrotoluene	606-20-2		U	204	102
2-Chloronaphthalene	91-58-7		U	204	102
2-Chlorophenol	95-57-8		U	204	102
2-Methylnaphthalene	91-57-6		U	204	102
2-Methylphenol	95-48-7		U	204	102
2-Nitroaniline	88-74-4		U	1020	509
2-Nitrophenol	88-75-5		U	204	102
3,3'-Dichlorobenzidine	91-94-1		U	408	204
3-,4-Methylphenol	106-44-5		U	204	102
3-Nitroaniline	99-09-2		U	1020	509
4,6-Dinitro-2-methylphenol	534-52-1		U	1020	509
4-Bromophenyl phenyl ether	101-55-3		U	204	102
4-Chloro-3-methylphenol	59-50-7		U	204	102
4-Chloroaniline	106-47-8		U	204	102
4-Chlorophenyl phenyl ether	7005-72-3		U	204	102
4-Nitroaniline	100-01-6		U	1020	509
4-Nitrophenol	100-02-7		U	1020	509
Acenaphthene	83-32-9		U	204	102
Acenaphthylene	208-96-8		U	204	102
Anthracene	120-12-7		U	204	102
Benzo(a)anthracene	56-55-3		U	204	102
Benzo(a)pyrene	50-32-8		U	204	102
Benzo(b)fluoranthene	205-99-2		U	204	102
Benzo(g,h,i)Perylene	191-24-2		U	204	102
Benzo(k)fluoranthene	207-08-9		U	204	102
Bis(2-Chloroethoxy)Methane	111-91-1		U	204	102
Bis(2-Chloroethyl)ether	111-44-4		U	204	102
bis(2-Chloroisopropyl)ether	39638-32-9		U	204	102
bis(2-Ethylhexyl)phthalate	117-81-7		U	204	102
Butyl benzyl phthalate	85-68-7		U	204	102
Carbazole	86-74-8		U	204	102
Chrysene	218-01-9		U	204	102
Dibenz(a,h)anthracene	53-70-3		U	204	102
Dibenzofuran	132-64-9		U	204	102
Diethyl phthalate	84-66-2		U	204	102
Dimethyl phthalate	131-11-3		U	204	102
Di-N-Butylphthalate	84-74-2		U	204	102
Di-n-octyl phthalate	117-84-0		U	204	102
Fluoranthene	206-44-0		U	204	102
Fluorene	86-73-7		U	204	102
Hexachlorobenzene	118-74-1		U	204	102
Hexachlorobutadiene	87-68-3		U	204	102
Hexachlorocyclopentadiene	77-47-4		U	204	102
Hexachloroethane	67-72-1		U	204	102
Indeno(1,2,3-cd)pyrene	193-39-5		U	204	102
Isophorone	78-59-1		U	204	102
Naphthalene	91-20-3		U	204	102
Nitrobenzene	98-95-3		U	204	102
N-Nitrosodiphenylamine	86-30-6		U	204	102
N-Nitrosodipropylamine	621-64-7		U	204	102
Pentachlorophenol	87-86-5		U	1020	509
Phenanthrene	85-01-8		U	204	102
Phenol	108-95-2		U	204	102

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-06**
Client ID: **0136-SO01-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 14:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 18:54**
File ID: **4M42830**
Percent Solid: **79.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	204	102

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	88.0	19	122	
2-Fluorobiphenyl	60.4	30	115	
2-Fluorophenol	60.0	25	121	
Nitrobenzene-d5	58.2	23	120	
p-Terphenyl-d14	80.3	18	137	
Phenol-d5	63.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number: **L08050290-07**
Client ID: **0136-SO02-051308**
Matrix: **Soil**
Workgroup Number: **WG271546**
Collect Date: **05/13/2008 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/15/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/16/2008 19:26**
File ID: **4M42831**
Percent Solid: **87.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	185	92.3
2,4,6-Trichlorophenol	88-06-2		U	185	92.3
2,4-Dichlorophenol	120-83-2		U	185	92.3
2,4-Dimethylphenol	105-67-9		U	185	92.3
2,4-Dinitrophenol	51-28-5		U	923	461
2,4-Dinitrotoluene	121-14-2		U	185	92.3
2,6-Dinitrotoluene	606-20-2		U	185	92.3
2-Chloronaphthalene	91-58-7		U	185	92.3
2-Chlorophenol	95-57-8		U	185	92.3
2-Methylnaphthalene	91-57-6		U	185	92.3
2-Methylphenol	95-48-7		U	185	92.3
2-Nitroaniline	88-74-4		U	923	461
2-Nitrophenol	88-75-5		U	185	92.3
3,3'-Dichlorobenzidine	91-94-1		U	369	185
3-,4-Methylphenol	106-44-5		U	185	92.3
3-Nitroaniline	99-09-2		U	923	461
4,6-Dinitro-2-methylphenol	534-52-1		U	923	461
4-Bromophenyl phenyl ether	101-55-3		U	185	92.3
4-Chloro-3-methylphenol	59-50-7		U	185	92.3
4-Chloroaniline	106-47-8		U	185	92.3
4-Chlorophenyl phenyl ether	7005-72-3		U	185	92.3
4-Nitroaniline	100-01-6		U	923	461
4-Nitrophenol	100-02-7		U	923	461
Acenaphthene	83-32-9		U	185	92.3
Acenaphthylene	208-96-8		U	185	92.3
Anthracene	120-12-7		U	185	92.3
Benzo(a)anthracene	56-55-3		U	185	92.3
Benzo(a)pyrene	50-32-8		U	185	92.3
Benzo(b)fluoranthene	205-99-2		U	185	92.3
Benzo(g,h,i)Perylene	191-24-2		U	185	92.3
Benzo(k)fluoranthene	207-08-9		U	185	92.3
Bis(2-Chloroethoxy)Methane	111-91-1		U	185	92.3
Bis(2-Chloroethyl)ether	111-44-4		U	185	92.3
bis(2-Chloroisopropyl)ether	39638-32-9		U	185	92.3
bis(2-Ethylhexyl)phthalate	117-81-7		U	185	92.3
Butyl benzyl phthalate	85-68-7		U	185	92.3
Carbazole	86-74-8		U	185	92.3
Chrysene	218-01-9		U	185	92.3
Dibenz(a,h)anthracene	53-70-3		U	185	92.3
Dibenzofuran	132-64-9		U	185	92.3
Diethyl phthalate	84-66-2		U	185	92.3
Dimethyl phthalate	131-11-3		U	185	92.3
Di-N-Butylphthalate	84-74-2		U	185	92.3
Di-n-octyl phthalate	117-84-0		U	185	92.3
Fluoranthene	206-44-0		U	185	92.3
Fluorene	86-73-7		U	185	92.3
Hexachlorobenzene	118-74-1		U	185	92.3
Hexachlorobutadiene	87-68-3		U	185	92.3
Hexachlorocyclopentadiene	77-47-4		U	185	92.3
Hexachloroethane	67-72-1		U	185	92.3
Indeno(1,2,3-cd)pyrene	193-39-5		U	185	92.3
Isophorone	78-59-1		U	185	92.3
Naphthalene	91-20-3		U	185	92.3
Nitrobenzene	98-95-3		U	185	92.3
N-Nitrosodiphenylamine	86-30-6		U	185	92.3
N-Nitrosodipropylamine	621-64-7		U	185	92.3
Pentachlorophenol	87-86-5		U	923	461
Phenanthrene	85-01-8		U	185	92.3
Phenol	108-95-2		U	185	92.3

Report Number: **L08050290**
Report Date : **June 2, 2008**

Sample Number:	L08050290-07	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0136-SO02-051308	Prep Method:	3545	Prep Date:	05/15/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG271546	Analyst:	MES	Run Date:	05/16/2008 19:26
Collect Date:	05/13/2008 14:15	Dilution:	1	File ID:	4M42831
Sample Tag:	01	Units:	ug/kg	Percent Solid:	87.3

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	185	92.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	57.8	19	122	
2-Fluorobiphenyl	45.6	30	115	
2-Fluorophenol	52.4	25	121	
Nitrobenzene-d5	53.2	23	120	
p-Terphenyl-d14	69.7	18	137	
Phenol-d5	53.3	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet R1450953

Microbac

Parameter: BNA Soil SOP #: EXASE01 Revision #: 6
Extraction Analyst(s): RAH TV/KD Analyst(s): RAH
Date/Time Extracted: 5/15/08 0300 Date TV/KD: 5/15/08
Spike/Surrogate Analyst: RAH Witness: CPD
Surrogate #: STD260068 Earliest Hold Date: 5/27/08
Spike #: A = STD260069 Spike #: B = STD26225

Extraction Work Group WG 271284

Extract Relinquished By: RAH
Extract Received By & Date: mg 5/15/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500ul		1 mL	T				WG271284-01
2	LCS					1		500uL(A)		C				WG -02
3	LCS DUP					1				C				-03
4	05-0290-01	827-SPE				20.84g				C				
5	-02					20.47g				T				
6	-03					20.06g				C				
7	-04					20.14g				C				
8	-05					20.17g				C				
9	-06					20.49g				C				
10	-07					20.46g				C				
11	1,4 Dioxane A	8270-Dioxane				20.00g		50uL(B)		T				STUDY
12	A DUP					1		1		T				
13	B					1		10uL(B)		T				
14	B DUP					1		1		T				
15	05-0307-02	8270				17.00g				T				*
16	-04	1				17.30g				O				mud
17														
18														
19														
20														
21														
22														
23														
24														

RAH 5/15/08

Methylene Chloride Lot #: 606E30
Hexane Lot #: -
Ether Lot #: -
Methanol Lot #: -
Solvent: - Lot #: -
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: E111404
Reagent: - Lot #: -
Acid: 1.1 Acetic Lot #: RGT12759
Florisil Lot #: -
Silica Gel Lot #: -
IR Analyst / Date / Time: -
Dried Na_2SO_4 Lot #: COA12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Cheryl Flowers Date: 5-15-08

Extraction Notes For Volume # 300 Page # 21

General Comments: ✗ Sx was extremely wet, very little solid matter in sx. Client contacted

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: NA

Supervisor Review: _____ Date: _____

R1454408

Document Control No. EP0300 Page 39 of 200

Sample Extract Log Sheet

Microbac

Parameter: BNA501 SOP #: EXA5E01 Revision #: 6
Extraction Analyst(s): CPD TV/KD Analyst(s): CAT
Date/Time Extracted: 05-20 0830 Date TV/KD: 5-20-08
Spike/Surrogate Analyst: CPD Witness: KDD
Surrogate #: STD26068 Earliest Hold Date: 5/29
Spike #: A = STD26069 Spike #: B = —

Extraction Work Group WG 271710
Extract Relinquished By: CSH
Extract Received By & Date: CAA 5/21/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500µl		1mL	T				WG 271710-01
2	LCS					〃	〃	500µl	〃	C				WG 271710-02
3	LCSDUP					〃	〃	〃	〃	C				WG 271710-03
4	05-0370-01	827-SPE				20.83g				C				
5	05-037601					20.82g				C				
6	-02					20.30g				O				
7	-03					20.98g				C				
8	-04					20.42g				C				
9	05-0382-01					20.26g				O				
10	05-0290-04					20.19g				C				ReExt in Hold
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

CAT 5-20-08

Methylene Chloride Lot #: G06E30
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: G01466
Reagent: — Lot #: —
Acid: 1% Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: C0A12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Cheryl Flowers Date: 5-20-08

300

Extraction Notes For Volume # ~~39~~ CPO 5-26-2 Page # 39

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG269038,WG269123,WG269414
Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21387	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:29
2	12M21388	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:45
3	12M21389	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:06
4	12M21390	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 09:25
5	12M21391	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:58
6	12M21392	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 10:17
7	12M21393	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 11:21
8	12M21394	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 11:40
9	12M21395	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 12:44
10	12M21396	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:03
11	12M21397	WG269466-03 3 PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:39
12	12M21398	WG269466-04 10 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:14
13	12M21399	WG269466-05 15 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:51
14	12M21400	WG269466-06 25 PPM MEGAMIX STD	1	1	STD25568	04/25/08 15:26
15	12M21401	WG269466-07 80 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:01
16	12M21402	WG269466-08 100 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:36
17	12M21403	WG269466-09 120 PPM MEGAMIX STD	1	1	STD25568	04/25/08 17:11
18	12M21404	WG269466-10 50PPM BNA ALT SOURCE	1	1	STD24887	04/25/08 17:46
19	12M21405	WG269466-11 50PPM A9 ALT SOURCE	1	1	STD24013	04/25/08 18:21
20	12M21406	WG268690-02 BLANK EP0297 PG139	17	1		04/25/08 18:56
21	12M21407	L08040535-01 D1 50X SOIL	10	50		04/25/08 19:31
22	12M21408	L08040356-01 2X	1	2		04/25/08 20:06
23	12M21409	L08040356-03 D1 5X	1	5		04/25/08 20:41
24	12M21410	L08040356-03 D2 50X	1	50		04/25/08 21:16
25	12M21411	L08040356-04	1	1		04/25/08 21:51
26	12M21412	L08040356-04 D1 5X	1	5		04/25/08 22:27
27	12M21413	L08040398-01 TCLP	17	1		04/25/08 23:02
28	12M21414	WG268690-01 L08040398-02 TCLP	17	1		04/25/08 23:37
29	12M21415	WG268690-05 L08040398-02 MS TCLP	17	1		04/26/08 00:13
30	12M21416	L08040398-03 TCLP	17	1		04/26/08 00:48
31	12M21417	BAKE OUT	1	1		04/26/08 01:23
32	12M21418	BAKE OUT	1	1		04/26/08 01:58

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1 Approved: 27-APR-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
2				
	RR DFTPP failed. Retuned MS.			
4				
	Internals low-increased voltage-restarting.			
6				
	Hexachlorobutadiene high. Clipping column-change gold seal.			
8				
	Hexachlorobutadiene high-changing liner.			
22	X	10	Over Calibration Range	12,17,19,22,38
	tph is low. PHL is <10% due to SMI. Not reextracting.			
25				
	Do not report-IS fails.			
30	X	1	Missed Tune	

Page: 2 Approved: 27-APR-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS4 Dataset: 050108
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23966

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG270019, WG270218
Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments: 4M42576 thru 4M42586 Not reported.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M42576	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 08:53
2	4M42577	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 09:07
3	4M42578	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 09:53
4	4M42579	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 10:11
5	4M42580	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 10:43
6	4M42581	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 11:48
7	4M42582	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 12:03
8	4M42583	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 12:28
9	4M42584	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 12:46
10	4M42585	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:21
11	4M42586	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:35
12	4M42587	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:58
13	4M42588	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 14:16
14	4M42589	WG270026-03 3 PPM MEGAMIX STD	1	1	STD25568	05/01/08 15:12
15	4M42590	WG270026-04 10 PPM MEGAMIX STD	1	1	STD25568	05/01/08 15:44
16	4M42591	WG270026-05 15 PPM MEGAMIX STD	1	1	STD25568	05/01/08 16:15
17	4M42592	WG270026-06 25 PPM MEGAMIX STD	1	1	STD25568	05/01/08 16:46
18	4M42593	WG270026-07 80 PPM MEGAMIX STD	1	1	STD25568	05/01/08 17:17
19	4M42594	WG270026-08 100 PPM MEGAMIX STD	1	1	STD25568	05/01/08 17:48
20	4M42595	WG270026-09 120 PPM MEGAMIX STD	1	1	STD25568	05/01/08 18:20
21	4M42596	WG270026-10 50PPM BNA ALT SOURCE	1	1	STD24887	05/01/08 18:52
22	4M42597	WG270026-11 50PPM A9 ALT SOURCE	1	1	STD24013	05/01/08 19:23
23	4M42598	WG269996-02 BLANK EP0298 PG131	7	1		05/01/08 19:55
24	4M42599	WG269996-03 LCS EP0298 PG131	7	1		05/01/08 20:26
25	4M42600	L08040484-02 SOIL	7	1		05/01/08 20:57
26	4M42601	L08040508-03 SOIL	7	1		05/01/08 21:29
27	4M42602	L08040508-04 SOIL	7	1		05/01/08 22:02
28	4M42603	L08040508-07 SOIL	7	1		05/01/08 22:33
29	4M42604	L08040557-01 SOIL	7	1		05/01/08 23:05
30	4M42605	L08040557-02 SOIL	7	1		05/01/08 23:37
31	4M42606	L08040557-03 SOIL	7	1		05/02/08 00:09
32	4M42607	L08040557-04 SOIL	7	1		05/02/08 00:41
33	4M42608	L08040687-17 SOIL	7	1		05/02/08 01:12
34	4M42609	BAKE OUT	7	1		05/02/08 01:43
35	4M42610	BAKE OUT	7	1		05/02/08 02:15

Page: 1 Approved: 02-MAY-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS4 Dataset: 050108

Analyst1: CAA Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23966

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG270019, WG270218

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes

 Approved: 02-MAY-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS4 Dataset: 051608
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24197

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271546,WG271349

Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M42811	WG271453-01 50PPM DFTPP STD	1	1	STD25193	05/16/08 09:00
2	4M42812	WG271453-02 50PPM MEGAMIX STD	1	1	STD25568	05/16/08 09:18
3	4M42813	500PPM KEPONE STD	1	1	STD24239	05/16/08 09:50
4	4M42814	WG271284-01 BLANK EP0300 PG21	7	1		05/16/08 10:21
5	4M42815	WG271284-02 LCS EP0300 PG21	7	1		05/16/08 10:53
6	4M42816	WG271284-03 LCSDUP EP0300 PG21	7	1		05/16/08 11:25
7	4M42817	L08050162-01	1	1		05/16/08 11:58
8	4M42818	L08050162-03	1	1		05/16/08 12:29
9	4M42819	L08050162-05	1	1		05/16/08 13:01
10	4M42820	L08050162-07	1	1		05/16/08 13:33
11	4M42821	L08050162-09	1	1		05/16/08 14:05
12	4M42822	L08050162-11	1	1		05/16/08 14:37
13	4M42823	L08050309-02 SOIL	7	1	SOIL	05/16/08 15:09
14	4M42824	L08050309-04 2X SOIL	7	2	SOIL	05/16/08 15:42
15	4M42825	L08050290-01 SOIL	7	1	SOIL	05/16/08 16:13
16	4M42826	L08050290-02 SOIL	7	1	SOIL	05/16/08 16:45
17	4M42827	L08050290-03 SOIL	7	1	SOIL	05/16/08 17:18
18	4M42828	L08050290-04 SOIL	7	1	SOIL	05/16/08 17:50
19	4M42829	L08050290-05 SOIL	7	1	SOIL	05/16/08 18:22
20	4M42830	L08050290-06 SOIL	7	1	SOIL	05/16/08 18:54
21	4M42831	L08050290-07 SOIL	7	1	SOIL	05/16/08 19:26
22	4M42832	BAKE OUT	1	1		05/16/08 19:59
23	4M42833	BAKE OUT	1	1		05/16/08 20:31

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	Benzoic acid is >20% but <40% low.			
12				
	TPH is high.			
14				
	tbp and 2FP are <10%. Reextract.			
18				
	tbp is low.			

Page: 1 Approved: 19-MAY-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 052108
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24257

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271778,WG271945,WG272012

Internal STD: COA13114 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21819	WG271895-01 50PPM DFTPP STD	1	1	STD25193	05/21/08 08:38
2	12M21820	WG271895-02 50PPM MEGAMIX STD	1	1	STD25568	05/21/08 08:57
3	12M21821	WG271710-01 BLANK EP0300 PG39	7	1		05/21/08 09:32
4	12M21822	WG271710-02 LCS EP0300 PG39	7	1		05/21/08 10:08
5	12M21823	WG271710-03 LCSDUP EP0300 PG39	7	1		05/21/08 10:43
6	12M21824	WG271417-03 LCSDUP EP0300 PG33	7	1		05/21/08 11:20
7	12M21825	L08050319-06 D1 10X SOIL	7	10	SOIL	05/21/08 11:55
8	12M21826	L08050319-03 20X SOIL	7	20	SOIL	05/21/08 12:31
9	12M21827	L08050370-01 SOIL	7	1	SOIL	05/21/08 13:07
10	12M21828	L08050290-04 RE SOIL	7	1	SOIL	05/21/08 13:41
11	12M21829	L08050382-01 2X SOIL	7	2	SOIL	05/21/08 14:16
12	12M21830	L08050376-01 SOIL	7	1	SOIL	05/21/08 14:51
13	12M21831	L08050376-03 SOIL	7	1	SOIL	05/21/08 15:28
14	12M21832	L08050376-04 SOIL	7	1	SOIL	05/21/08 16:05
15	12M21833	L08050376-02 2X SOIL	7	2	SOIL	05/21/08 16:40
16	12M21834	L08050382-01 D1 5X SOIL	7	5	SOIL	05/21/08 17:16
17	12M21835	WG271857-01 BLANK EP0300 PG45	7	1		05/21/08 17:52
18	12M21836	WG271857-02 LCS EP0300 PG45	7	1		05/21/08 18:27
19	12M21837	WG271857-03 LCSDUP EP0300 PG45	7	1		05/21/08 19:03
20	12M21838	L08050417-12 SOIL	7	1	SOIL	05/21/08 19:39
21	12M21839	L08050417-06 SOIL	7	1	SOIL	05/21/08 20:14
22	12M21840	BAKE OUT	1	1		05/21/08 20:49
23	12M21841	BAKE OUT	1	1		05/21/08 21:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	69 is >20% but <25% high.			
9				
	NBZ is low.			
10				
	Does not confirm low SS.			
11	X	5	Over Calibration Range	21
15	X	1	Analyzed too dilute	

Page: 1 Approved: 22-MAY-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS12	Dataset:	052108	
Analyst1:	MES	Analyst2:	NA	
Method:	8270C	SOP:	MSS01	Rev: 14
Method:	625	SOP:	MSS02	Rev: 8

Maintenance Log ID: 24257

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271778,WG271945,WG272012

Internal STD: COA13114 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Approved: 22-MAY-08

Microbac Laboratories Inc.

Data Checklist

Date: 25-APR-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 21849
Analytical Workgroups: L08040356,L08040535,L0804398

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
26-APR-2008

Secondary Reviewer:
27-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-27-2008 16:24:20

Microbac Laboratories Inc.

Data Checklist

Date: 01-MAY-2008
Analyst: CAA
Analyst: MES
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 21969
Analytical Workgroups: L08040484, L08040508, L040557, L08040687

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
02-MAY-2008

Secondary Reviewer:
02-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-02-2008 14:58:31

Microbac Laboratories Inc.

Data Checklist

Date: 16-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 22248
Analytical Workgroups: L08050290,L08050309,L08050162

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
19-MAY-2008

Secondary Reviewer:
19-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-19-2008 10:52:59

Microbac Laboratories Inc.

Data Checklist

Date: 21-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22324
Analytical Workgroups: L08050319,L08050417,L08050290,L08050370,L08050376,L08050382

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
22-MAY-2008

Secondary Reviewer:
22-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-22-2008 13:20:47

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271945

Login Number: L08050290

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0125-SO01-051308	05/13/08	05/14/08	05/20/08	14	6.80	05/21/08	40	1.22	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1100929
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271546

Login Number: L08050290

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0134-SO01-051308	05/13/08	05/14/08	05/15/08	14	1.86	05/16/08	40	1.39	
0136-SO02-051308	05/13/08	05/14/08	05/15/08	14	1.74	05/16/08	40	1.48	
0125-SO01-051308	05/13/08	05/14/08	05/15/08	14	1.78	05/16/08	40	1.41	
0135-SO02-051308	05/13/08	05/14/08	05/15/08	14	1.88	05/16/08	40	1.36	
0136-SO01-051308	05/13/08	05/14/08	05/15/08	14	1.75	05/16/08	40	1.45	
0135-SO01-051308	05/13/08	05/14/08	05/15/08	14	1.89	05/16/08	40	1.34	
0126-SO01-051308	05/13/08	05/14/08	05/15/08	14	1.76	05/16/08	40	1.43	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050290
Instrument Id: HPMS4
Workgroup (AAB#): WG271546

Method: 8270
CAL ID: HPMS4-01-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050290-01	1.00	01	52.3	55.2	51.1	57.3	74.4	55.0
L08050290-02	1.00	01	69.9	63.3	62.3	64.1	73.6	62.6
L08050290-03	1.00	01	41.3	40.9	43.3	46.8	71.6	45.9
L08050290-04	1.00	01	13.5	64.4	46.1	63.0	82.7	55.5
L08050290-05	1.00	01	51.5	60.0	48.9	58.1	73.3	51.6
L08050290-06	1.00	01	88.0	60.4	60.0	58.2	80.3	63.8
L08050290-07	1.00	01	57.8	45.6	52.4	53.2	69.7	53.3
WG271284-01	1.00	01	81.5	70.2	67.2	67.7	86.8	68.5
WG271284-02	1.00	01	77.4	54.7	52.5	50.0	74.9	54.0
WG271284-03	1.00	01	89.0	62.4	60.1	57.3	90.3	62.3

Surrogates	Surrogate Limits
1 - 2,4,6-Tribromophenol	19 - 122
2 - 2-Fluorobiphenyl	30 - 115
3 - 2-Fluorophenol	25 - 121
4 - Nitrobenzene-d5	23 - 120
5 - p-Terphenyl-d14	18 - 137
6 - Phenol-d5	24 - 113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1096443
Report generated: 05/22/2008 14:55

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050290
Instrument Id: HPMS12
Workgroup (AAB#): WG271945

Method: 8270
CAL ID: HPMS12-25-APR-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050290-04	1.00	RE1	23.1	61.7	50.3	53.2	82.0	54.8
WG271710-01	1.00	01	57.3	55.4	56.2	50.2	81.0	56.8
WG271710-02	1.00	01	68.8	58.7	57.5	56.8	74.1	59.6
WG271710-03	1.00	01	80.7	53.9	52.1	53.2	97.1	52.9

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1096443
Report generated: 05/22/2008 14:55

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050290
Work Group: WG271546
Blank File ID: 4M42814
Blank Sample ID: WG271284-01
Prep Date: 05/15/08 08:00
Instrument ID: HPMS4
Analyzed Date: 05/16/08 10:21
Method: 8270C
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271284-02	4M42815	05/16/08 10:53	01
LCS2	WG271284-03	4M42816	05/16/08 11:25	01
0135-SO01-051308	L08050290-01	4M42825	05/16/08 16:13	01
0135-SO02-051308	L08050290-02	4M42826	05/16/08 16:45	01
0134-SO01-051308	L08050290-03	4M42827	05/16/08 17:18	01
0125-SO01-051308	L08050290-04	4M42828	05/16/08 17:50	01
0126-SO01-051308	L08050290-05	4M42829	05/16/08 18:22	01
0136-SO01-051308	L08050290-06	4M42830	05/16/08 18:54	01
0136-SO02-051308	L08050290-07	4M42831	05/16/08 19:26	01

Report Name: BLANK_SUMMARY
PDF File ID: 1100930
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050290	Work Group:	WG271945
Blank File ID:	12M21821	Blank Sample ID:	WG271710-01
Prep Date:	05/20/08 08:30	Instrument ID:	HPMS12
Analyzed Date:	05/21/08 09:32	Method:	8270C
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271710-02	12M21822	05/21/08 10:08	01
LCS2	WG271710-03	12M21823	05/21/08 10:43	01
0125-SO01-051308	L08050290-04	12M21828	05/21/08 13:41	RE1

Report Name: BLANK_SUMMARY
PDF File ID: 1100930
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050290 Prep Date:05/15/08 08:00 Sample ID:WG271284-01
Instrument ID:HPMS4 Run Date:05/16/08 10:21 Prep Method:3545
File ID:4M42814 Analyst:MES Method:8270C
Workgroup (AAB#):WG271546 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS4-01-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1096440
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050290 Prep Date: 05/15/08 08:00 Sample ID: WG271284-01
Instrument ID: HPMS4 Run Date: 05/16/08 10:21 Prep Method: 3545
File ID: 4M42814 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271546 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS4-01-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	81.5	19	-	122	PASS
2-Fluorobiphenyl	70.2	30	-	115	PASS
2-Fluorophenol	67.2	25	-	121	PASS
Nitrobenzene-d5	67.7	23	-	120	PASS
p-Terphenyl-d14	86.8	18	-	137	PASS
Phenol-d5	68.5	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1096440
22-MAY-2008 14:51

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050290 Prep Date:05/20/08 08:30 Sample ID:WG271710-01
Instrument ID:HPMS12 Run Date:05/21/08 09:32 Prep Method:3545
File ID:12M21821 Analyst:MES Method:8270C
Workgroup (AAB#):WG271945 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1096440
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050290 Prep Date:05/20/08 08:30 Sample ID:WG271710-01
Instrument ID:HPMS12 Run Date:05/21/08 09:32 Prep Method:3545
File ID:12M21821 Analyst:MES Method:8270C
Workgroup (AAB#):WG271945 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	57.3	19	-	122	PASS
2-Fluorobiphenyl	55.4	30	-	115	PASS
2-Fluorophenol	56.2	25	-	121	PASS
Nitrobenzene-d5	50.2	23	-	120	PASS
p-Terphenyl-d14	81.0	18	-	137	PASS
Phenol-d5	56.8	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1096440
22-MAY-2008 14:51

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: MES Prep Method: 3545
Instrument ID: HPMS4 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271546 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271284-02 LCS File ID: 4M42815 Run Date: 05/16/2008 10:53
Sample ID: WG271284-03 LCS2 File ID: 4M42816 Run Date: 05/16/2008 11:25

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1490	59.7	2500	1790	71.6	18.1	49 - 125	30	
2,4,6-Trichlorophenol	2500	1470	59.0	2500	1750	70.0	17.0	43 - 125	30	
2,4-Dichlorophenol	2500	1300	52.0	2500	1480	59.4	13.2	45 - 125	30	
2,4-Dimethylphenol	2500	1330	53.1	2500	1520	60.9	13.7	32 - 125	30	
2,4-Dinitrophenol	2500	1340	53.7	2500	1600	64.1	17.8	25 - 132	30	
2,4-Dinitrotoluene	2500	1760	70.2	2500	2090	83.4	17.2	48 - 125	30	
2,6-Dinitrotoluene	2500	1490	59.5	2500	1800	71.9	18.9	48 - 125	30	
2-Chloronaphthalene	2500	1210	48.4	2500	1390	55.8	14.2	45 - 125	30	
2-Chlorophenol	2500	1320	52.7	2500	1530	61.3	15.1	44 - 125	30	
2-Methylnaphthalene	2500	1320	52.9	2500	1510	60.3	13.0	47 - 125	30	
2-Methylphenol	2500	1350	53.8	2500	1570	62.8	15.4	40 - 125	30	
2-Nitroaniline	2500	1410	56.5	2500	1760	70.5	22.1	44 - 125	30	
2-Nitrophenol	2500	1290	51.4	2500	1470	59.0	13.7	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1950	78.1	2500	2420	96.9	21.4	20 - 128	30	
3-,4-Methylphenol	2500	1510	60.5	2500	1790	71.6	16.7	50 - 120	30	
3-Nitroaniline	2500	1690	67.6	2500	2010	80.6	17.5	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	1350	54.1	2500	1730	69.0	24.3	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1310	52.4	2500	1540	61.7	16.2	46 - 125	30	
4-Chloro-3-methylphenol	2500	1300	52.0	2500	1540	61.7	17.1	46 - 125	30	
4-Chloroaniline	2500	1180	47.4	2500	1360	54.5	13.9	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1380	55.0	2500	1650	66.0	18.1	47 - 125	30	
4-Nitroaniline	2500	1750	69.9	2500	2120	84.8	19.3	34 - 125	30	
4-Nitrophenol	2500	1440	57.8	2500	1810	72.4	22.5	25 - 138	30	
Acenaphthene	2500	1400	56.1	2500	1670	66.7	17.4	46 - 125	30	
Acenaphthylene	2500	1430	57.2	2500	1690	67.4	16.5	44 - 125	30	
Anthracene	2500	1620	64.9	2500	1890	75.7	15.4	53 - 125	30	
Benzo(a)anthracene	2500	1840	73.5	2500	2270	90.7	21.0	52 - 125	30	
Benzo(a)pyrene	2500	1870	74.9	2500	2310	92.4	21.0	50 - 125	30	
Benzo(b)fluoranthene	2500	1840	73.6	2500	2210	88.5	18.4	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1970	78.6	2500	2410	96.4	20.3	38 - 126	30	
Benzo(k)fluoranthene	2500	1900	76.1	2500	2410	96.3	23.4	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	989	39.6	2500	1150	46.2	15.4	43 - 125	30	*
Bis(2-Chloroethyl)ether	2500	1240	49.5	2500	1470	58.7	17.1	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1140	45.5	2500	1360	54.6	18.2	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1760	70.3	2500	2210	88.4	22.8	47 - 127	30	
Butyl benzyl phthalate	2500	1870	74.9	2500	2330	93.0	21.6	49 - 125	30	
Carbazole	2500	1690	67.6	2500	2040	81.6	18.7	40 - 135	30	
Chrysene	2500	1890	75.5	2500	2290	91.6	19.2	53 - 125	30	
Dibenz(a,h)anthracene	2500	1940	77.6	2500	2400	95.8	21.0	41 - 125	30	
Dibenzofuran	2500	1440	57.5	2500	1700	68.0	16.7	51 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096442
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: MES Prep Method: 3545
Instrument ID: HPMS4 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271546 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271284-02 LCS File ID: 4M42815 Run Date: 05/16/2008 10:53
Sample ID: WG271284-03 LCS2 File ID: 4M42816 Run Date: 05/16/2008 11:25

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1660	66.5	2500	1970	78.7	16.8	50 - 125	30	
Dimethyl phthalate	2500	1480	59.2	2500	1790	71.7	19.1	49 - 125	30	
Di-N-Butylphthalate	2500	1630	65.1	2500	2010	80.3	21.0	56 - 125	30	
Di-n-octyl phthalate	2500	1720	68.7	2500	2190	87.8	24.4	41 - 132	30	
Fluoranthene	2500	1710	68.6	2500	2060	82.6	18.5	54 - 125	30	
Fluorene	2500	1440	57.6	2500	1720	68.6	17.5	49 - 125	30	
Hexachlorobenzene	2500	1660	66.6	2500	1940	77.7	15.4	47 - 125	30	
Hexachlorobutadiene	2500	1510	60.4	2500	1720	68.6	12.8	40 - 125	30	
Hexachlorocyclopentadiene	2500	1190	47.6	2500	1340	53.7	12.0	10 - 150	30	
Hexachloroethane	2500	1310	52.5	2500	1560	62.2	17.0	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1960	78.4	2500	2420	96.8	21.0	38 - 125	30	
Isophorone	2500	1370	54.7	2500	1610	64.4	16.4	43 - 125	30	
Naphthalene	2500	1270	50.6	2500	1440	57.6	12.8	40 - 125	30	
Nitrobenzene	2500	1260	50.4	2500	1450	58.1	14.3	41 - 125	30	
N-Nitrosodiphenylamine	2500	1210	48.4	2500	1420	56.9	16.2	49 - 125	30	*
N-Nitrosodipropylamine	2500	1290	51.6	2500	1530	61.2	16.9	40 - 125	30	
Pentachlorophenol	2500	1810	72.5	2500	2180	87.1	18.3	25 - 125	30	
Phenanthrene	2500	1600	63.8	2500	1850	74.0	14.8	50 - 125	30	
Phenol	2500	1360	54.2	2500	1590	63.5	15.8	39 - 125	30	
Pyrene	2500	1820	72.6	2500	2220	88.8	20.0	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	52.5	60.1	25 - 121	PASS
Phenol-d5	54.0	62.3	24 - 113	PASS
Nitrobenzene-d5	50.0	57.3	23 - 120	PASS
2-Fluorobiphenyl	54.7	62.4	30 - 115	PASS
2,4,6-Tribromophenol	77.4	89.0	19 - 122	PASS
p-Terphenyl-d14	74.9	90.3	18 - 137	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096442
Report generated: 05/22/2008 14:51

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271945 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271710-02 LCS File ID: 12M21822 Run Date: 05/21/2008 10:08
Sample ID: WG271710-03 LCS2 File ID: 12M21823 Run Date: 05/21/2008 10:43

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1680	67.2	2500	1660	66.5	1.06	49 - 125	30	
2,4,6-Trichlorophenol	2500	1670	66.7	2500	1600	64.2	3.85	43 - 125	30	
2,4-Dichlorophenol	2500	1310	52.4	2500	1170	47.0	10.9	45 - 125	30	
2,4-Dimethylphenol	2500	1330	53.1	2500	1240	49.7	6.61	32 - 125	30	
2,4-Dinitrophenol	2500	2140	85.6	2500	2590	104	19.2	25 - 132	30	
2,4-Dinitrotoluene	2500	1900	75.9	2500	2320	92.8	20.0	48 - 125	30	
2,6-Dinitrotoluene	2500	1710	68.2	2500	1900	76.1	10.9	48 - 125	30	
2-Chloronaphthalene	2500	1290	51.5	2500	1200	48.1	6.83	45 - 125	30	
2-Chlorophenol	2500	1410	56.3	2500	1290	51.7	8.39	44 - 125	30	
2-Methylnaphthalene	2500	1270	50.7	2500	1240	49.5	2.44	47 - 125	30	
2-Methylphenol	2500	1370	54.7	2500	1250	49.9	9.31	40 - 125	30	
2-Nitroaniline	2500	1950	78.0	2500	2080	83.2	6.34	44 - 125	30	
2-Nitrophenol	2500	1380	55.4	2500	1260	50.5	9.23	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1700	67.9	2500	2240	89.5	27.5	20 - 128	30	
3-,4-Methylphenol	2500	1570	62.9	2500	1410	56.5	10.7	50 - 120	30	
3-Nitroaniline	2500	1680	67.3	2500	2150	85.9	24.3	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	2180	87.2	2500	2810	112	25.1	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1450	58.0	2500	1710	68.3	16.4	46 - 125	30	
4-Chloro-3-methylphenol	2500	1360	54.6	2500	1300	52.1	4.59	46 - 125	30	
4-Chloroaniline	2500	1210	48.3	2500	1170	46.9	2.99	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1540	61.6	2500	1580	63.2	2.44	47 - 125	30	
4-Nitroaniline	2500	1680	67.3	2500	2150	85.9	24.3	34 - 125	30	
4-Nitrophenol	2500	1900	75.9	2500	2410	96.5	24.0	25 - 138	30	
Acenaphthene	2500	1550	62.2	2500	1310	52.4	17.0	46 - 125	30	
Acenaphthylene	2500	1540	61.8	2500	1460	58.4	5.56	44 - 125	30	
Anthracene	2500	1720	68.8	2500	2250	89.8	26.5	53 - 125	30	
Benzo(a)anthracene	2500	1710	68.5	2500	2220	88.8	25.8	52 - 125	30	
Benzo(a)pyrene	2500	1560	62.5	2500	2040	81.8	26.6	50 - 125	30	
Benzo(b)fluoranthene	2500	1600	64.0	2500	2090	83.7	26.7	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1470	58.7	2500	1800	72.1	20.6	38 - 126	30	
Benzo(k)fluoranthene	2500	1600	64.0	2500	2060	82.2	24.9	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	1320	52.8	2500	1240	49.5	6.59	43 - 125	30	
Bis(2-Chloroethyl)ether	2500	1400	56.0	2500	1230	49.2	12.8	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1480	59.2	2500	1320	52.9	11.3	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1800	72.1	2500	2350	93.9	26.3	47 - 127	30	
Butyl benzyl phthalate	2500	1830	73.3	2500	2390	95.8	26.6	49 - 125	30	
Carbazole	2500	1830	73.3	2500	2380	95.1	25.9	40 - 135	30	
Chrysene	2500	1770	70.8	2500	2280	91.4	25.4	53 - 125	30	
Dibenz(a,h)anthracene	2500	1420	56.6	2500	1740	69.6	20.6	41 - 125	30	
Dibenzofuran	2500	1560	62.2	2500	1550	61.9	0.512	51 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096442
Report generated: 05/22/2008 14:51

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050290 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271945 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271710-02 LCS File ID: 12M21822 Run Date: 05/21/2008 10:08
Sample ID: WG271710-03 LCS2 File ID: 12M21823 Run Date: 05/21/2008 10:43

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1780	71.3	2500	2160	86.2	18.9	50 - 125	30	
Dimethyl phthalate	2500	1730	69.3	2500	1930	77.1	10.7	49 - 125	30	
Di-N-Butylphthalate	2500	1790	71.7	2500	2380	95.3	28.2	56 - 125	30	
Di-n-octyl phthalate	2500	1620	64.8	2500	2100	83.9	25.8	41 - 132	30	
Fluoranthene	2500	1880	75.3	2500	2450	97.8	26.0	54 - 125	30	
Fluorene	2500	1570	63.0	2500	1680	67.2	6.52	49 - 125	30	
Hexachlorobenzene	2500	1780	71.3	2500	2210	88.3	21.3	47 - 125	30	
Hexachlorobutadiene	2500	1490	59.7	2500	1360	54.4	9.39	40 - 125	30	
Hexachlorocyclopentadiene	2500	1250	50.1	2500	1160	46.2	8.02	10 - 150	30	
Hexachloroethane	2500	1400	55.9	2500	1280	51.2	8.83	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1470	58.9	2500	1840	73.7	22.3	38 - 125	30	
Isophorone	2500	1430	57.2	2500	1340	53.5	6.66	43 - 125	30	
Naphthalene	2500	1230	49.2	2500	1180	47.3	3.99	40 - 125	30	
Nitrobenzene	2500	1390	55.4	2500	1320	52.8	4.93	41 - 125	30	
N-Nitrosodiphenylamine	2500	1410	56.4	2500	1700	67.9	18.5	49 - 125	30	
N-Nitrosodipropylamine	2500	1350	54.0	2500	1270	51.0	5.79	40 - 125	30	
Pentachlorophenol	2500	1710	68.3	2500	2250	89.9	27.3	25 - 125	30	
Phenanthrene	2500	1670	66.9	2500	2150	86.1	25.1	50 - 125	30	
Phenol	2500	1440	57.4	2500	1310	52.4	9.19	39 - 125	30	
Pyrene	2500	1770	70.6	2500	2320	92.9	27.2	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	57.5	52.1	25 - 121	PASS
Phenol-d5	59.6	52.9	24 - 113	PASS
Nitrobenzene-d5	56.8	53.2	23 - 120	PASS
2-Fluorobiphenyl	58.7	53.9	30 - 115	PASS
2,4,6-Tribromophenol	68.8	80.7	19 - 122	PASS
p-Terphenyl-d14	74.1	97.1	18 - 137	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1096442
Report generated: 05/22/2008 14:51

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050290
Instrument: HPMS12
Analyst: MES
Workgroup: WG269466

Tune ID: WG269466-01
Run Date: 04/25/2008
Run Time: 12:44
File ID: 12M21395
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.7	68129	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.6	73016	PASS
70.0	69.0	0	2.00	0.823	601	PASS
127	198	40.0	60.0	47.2	80904	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	171541	PASS
199	198	5.00	9.00	7.11	12203	PASS
275	198	10.0	30.0	28.8	49362	PASS
365	198	1.00	100	4.52	7750	PASS
441	443	0.0100	100	81.0	16290	PASS
442	198	40.0	100	60.4	103578	PASS
443	442	17.0	23.0	19.4	20104	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG269466-02	STD-CCV	01	04/25/2008 13:03	
WG269466-03	STD	01	04/25/2008 13:39	
WG269466-04	STD	01	04/25/2008 14:14	
WG269466-05	STD	01	04/25/2008 14:51	
WG269466-06	STD	01	04/25/2008 15:26	
WG269466-07	STD	01	04/25/2008 16:01	
WG269466-08	STD	01	04/25/2008 16:36	
WG269466-09	STD	01	04/25/2008 17:11	
WG269466-10	SSCV	01	04/25/2008 17:46	
WG269466-11	SSCV	01	04/25/2008 18:21	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1100939
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050290
Instrument: HPMS12
Analyst: MES
Workgroup: WG271895

Tune ID: WG271895-01
Run Date: 05/21/2008
Run Time: 08:38
File ID: 12M21819
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	38.3	60850	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.7	64796	PASS
70.0	69.0	0	2.00	0.474	307	PASS
127	198	40.0	60.0	44.0	70057	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	159082	PASS
199	198	5.00	9.00	6.83	10864	PASS
275	198	10.0	30.0	29.0	46202	PASS
365	198	1.00	100	5.08	8087	PASS
441	443	0.0100	100	80.7	15139	PASS
442	198	40.0	100	59.9	95338	PASS
443	442	17.0	23.0	19.7	18770	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271895-02	CCV	01	05/21/2008 08:57	
WG271710-01	BLANK	01	05/21/2008 09:32	
WG271710-02	LCS	01	05/21/2008 10:08	
WG271710-03	LCS2	01	05/21/2008 10:43	
L08050290-04	0125-SO01-051308	RE1	05/21/2008 13:41	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1100939
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050290
Instrument: HPMS4
Analyst: MES
Workgroup: WG270026

Tune ID: WG270026-01
Run Date: 05/01/2008
Run Time: 13:58
File ID: 4M42587
Cal ID: HPMS4-01-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.8	42258	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.1	42557	PASS
70.0	69.0	0	2.00	0.573	244	PASS
127	198	40.0	60.0	51.3	54544	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	106253	PASS
199	198	5.00	9.00	6.43	6833	PASS
275	198	10.0	30.0	24.1	25616	PASS
365	198	1.00	100	2.87	3049	PASS
441	443	0.0100	100	86.1	14807	PASS
442	198	40.0	100	83.5	88757	PASS
443	442	17.0	23.0	19.4	17190	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270026-02	STD-CCV	01	05/01/2008 14:16	
WG270026-03	STD	01	05/01/2008 15:12	
WG270026-04	STD	01	05/01/2008 15:44	
WG270026-05	STD	01	05/01/2008 16:15	
WG270026-06	STD	01	05/01/2008 16:46	
WG270026-07	STD	01	05/01/2008 17:17	
WG270026-08	STD	01	05/01/2008 17:48	
WG270026-09	STD	01	05/01/2008 18:20	
WG270026-10	SSCV	01	05/01/2008 18:52	
WG270026-11	SSCV	01	05/01/2008 19:23	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1100939
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050290
Instrument: HPMS4
Analyst: MES
Workgroup: WG271453

Tune ID: WG271453-01
Run Date: 05/16/2008
Run Time: 09:00
File ID: 4M42811
Cal ID: HPMS4-01-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	31.5	62291	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	34.2	67610	PASS
70.0	69.0	0	2.00	0.756	511	PASS
127	198	40.0	60.0	49.5	97957	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	197824	PASS
199	198	5.00	9.00	6.69	13226	PASS
275	198	10.0	30.0	26.2	51829	PASS
365	198	1.00	100	3.55	7013	PASS
441	443	0.0100	100	21.8	8114	PASS
442	198	40.0	100	96.5	190954	PASS
443	442	17.0	23.0	19.5	37248	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271453-02	CCV	01	05/16/2008 09:18	
WG271284-01	BLANK	01	05/16/2008 10:21	
WG271284-02	LCS	01	05/16/2008 10:53	
WG271284-03	LCS2	01	05/16/2008 11:25	
L08050290-01	0135-SO01-051308	01	05/16/2008 16:13	
L08050290-02	0135-SO02-051308	01	05/16/2008 16:45	
L08050290-03	0134-SO01-051308	01	05/16/2008 17:18	
L08050290-04	0125-SO01-051308	01	05/16/2008 17:50	
L08050290-05	0126-SO01-051308	01	05/16/2008 18:22	
L08050290-06	0136-SO01-051308	01	05/16/2008 18:54	
L08050290-07	0136-SO02-051308	01	05/16/2008 19:26	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1100939
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.4184	12.6		
2,4-Dichlorophenol	CCC	0.3488	10.2		
2-Nitrophenol	CCC	0.1857	15.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3870	7.61		
Acenaphthene	CCC	1.193	10.8		
Benzo[a]pyrene	CCC	1.217	8.97		
Di-n-Octyl Phthalate	CCC	1.218	15.7	0.998	
Fluoranthene	CCC	1.397	7.10		
Hexachlorobutadiene	CCC	0.3276	1.94		
Pentachlorophenol	CCC	0.1518	27.4	0.996	
Phenol	CCC	1.661	4.60		
n-Nitrosodiphenylamine	CCC	0.6676	7.80		
2,4-Dinitrophenol	SPCC	0.1449	38.6		0.999
4-Nitrophenol	SPCC	0.3133	6.27		
Hexachlorocyclopentadiene	SPCC	0.4039	22.4	0.999	
n-Nitrosodipropylamine	SPCC	1.032	3.83		
2,4,5-Trichlorophenol		0.4429	11.9		
2,4-Dimethylphenol		0.3697	10.3		
2,4-Dinitrotoluene		0.3792	14.5		
2,6-Dinitrotoluene		0.2941	9.67		
2-Chloronaphthalene		1.315	3.32		
2-Chlorophenol		1.236	5.81		
2-Methylnaphthalene		0.7859	6.94		
2-Methylphenol		1.020	7.51		
2-Nitroaniline		0.3601	4.92		
3,3'-Dichlorobenzidine		0.3636	16.5	0.999	
3-,4-Methylphenol		1.298	7.04		
3-Nitroaniline		0.3089	8.98		
4,6-Dinitro-2-Methylphenol		0.1347	28.2		0.999
4-Bromophenyl Phenyl Ether		0.2811	7.81		
4-Chloroaniline		0.5825	6.96		
4-Chlorophenyl Phenyl Ether		0.8612	3.69		
4-Nitroaniline		0.3089	8.98		
Acenaphthylene		1.775	6.34		
Anthracene		1.126	9.03		
Benzo[a]anthracene		1.309	5.38		
Benzo[b]fluoranthene		1.326	8.38		
Benzo[ghi]perylene		1.106	9.48		
Benzo[k]fluoranthene		1.269	5.91		
Butyl Benzyl Phthalate		0.5165	8.89		
Carbazole		0.9738	11.7		
Chrysene		1.186	5.12		
Di-n-Butyl Phthalate		1.286	8.69		
Dibenz[ah]anthracene		1.102	24.4	0.999	
Dibenzofuran		1.704	4.05		

INT_CAL - Modified 03/06/2008
PDF File ID: 1100932
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.411	3.07		
Dimethylphthalate		1.337	3.14		
Fluorene		1.450	6.38		
Hexachlorobenzene		0.2639	8.27		
Hexachloroethane		0.6253	4.95		
Indeno[1,2,3-cd]pyrene		1.329	12.2		
Isophorone		0.7407	4.75		
Naphthalene		1.124	6.22		
Nitrobenzene		0.4858	5.44		
Phenanthrene		1.147	7.41		
Pyrene		1.286	5.08		
bis(2-Chloroethoxy)methane		0.4267	3.78		
bis(2-Chloroethyl)ether		0.8758	4.88		
bis(2-Chloroisopropyl)ether		1.246	2.66		
bis(2-Ethylhexyl)phthalate		0.6818	12.8		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1100932
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20
ICAL Workgroup: WG270026 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3588	6.13		
2,4-Dichlorophenol	CCC	0.2962	4.39		
2-Nitrophenol	CCC	0.2044	5.80		
4-Chloro-3-Methylphenol	CCC	0.2984	2.41		
Acenaphthene	CCC	1.185	2.88		
Benzo[a]pyrene	CCC	1.246	5.32		
Di-n-Octyl Phthalate	CCC	1.631	6.55		
Fluoranthene	CCC	1.267	4.25		
Hexachlorobutadiene	CCC	0.1622	4.25		
Pentachlorophenol	CCC	0.1190	20.7	0.997	
Phenol	CCC	1.653	1.98		
n-Nitrosodiphenylamine	CCC	0.7417	3.76		
2,4-Dinitrophenol	SPCC	0.1473	33.6	0.998	
4-Nitrophenol	SPCC	0.2498	5.07		
Hexachlorocyclopentadiene	SPCC	0.1921	33.9	0.999	
n-Nitrosodipropylamine	SPCC	0.8873	2.89		
2,4,5-Trichlorophenol		0.3851	5.16		
2,4-Dimethylphenol		0.3403	2.18		
2,4-Dinitrotoluene		0.4093	6.22		
2,6-Dinitrotoluene		0.3244	3.55		
2-Chloronaphthalene		1.356	1.97		
2-Chlorophenol		1.491	2.86		
2-Methylnaphthalene		0.7034	2.42		
2-Methylphenol		1.084	2.03		
2-Nitroaniline		0.3246	3.80		
3,3'-Dichlorobenzidine		0.4463	4.24		
3-,4-Methylphenol		1.450	2.53		
3-Nitroaniline		0.3563	1.89		
4,6-Dinitro-2-Methylphenol		0.1550	13.5		
4-Bromophenyl Phenyl Ether		0.2243	4.85		
4-Chloroaniline		0.4693	2.39		
4-Chlorophenyl Phenyl Ether		0.6379	3.20		
4-Nitroaniline		0.3869	2.35		
Acenaphthylene		1.894	1.93		
Anthracene		1.255	3.77		
Benzo[a]anthracene		1.254	3.53		
Benzo[b]fluoranthene		1.433	5.35		
Benzo[ghi]perylene		1.216	5.82		
Benzo[k]fluoranthene		1.213	7.39		
Butyl Benzyl Phthalate		0.6538	6.52		
Carbazole		1.161	3.58		
Chrysene		1.199	3.81		
Di-n-Butyl Phthalate		1.432	3.45		
Dibenz[ah]anthracene		1.229	5.70		
Dibenzofuran		1.647	2.16		

INT_CAL - Modified 03/06/2008
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Report generated 05/22/2008 14:51

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050290 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20
ICAL Workgroup: WG270026 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.320	1.55		
Dimethylphthalate		1.300	1.87		
Fluorene		1.388	2.37		
Hexachlorobenzene		0.2428	5.37		
Hexachloroethane		0.5953	1.75		
Indeno[1,2,3-cd]pyrene		1.439	5.44		
Isophorone		0.5440	2.44		
Naphthalene		1.075	1.63		
Nitrobenzene		0.3357	2.21		
Phenanthrene		1.248	4.04		
Pyrene		1.368	4.55		
bis(2-Chloroethoxy)methane		0.5007	2.28		
bis(2-Chloroethyl)ether		0.8929	3.12		
bis(2-Chloroisopropyl)ether		1.955	4.71		
bis(2-Ethylhexyl)phthalate		0.9064	5.57		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1100932
Report generated 05/22/2008 14:51

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	136367.000	0.4388	3.00	5918.00000	0.3142	10.0	23239.0000	0.3862
2,4-Dichlorophenol	50.0	158754.000	0.3588	3.00	7927.00000	0.2918	10.0	26920.0000	0.3173
2-Nitrophenol	50.0	86369.0000	0.1952	3.00	3432.00000	0.1263	10.0	14327.0000	0.1689
4-Chloro-3-Methylphenol	50.0	178838.000	0.4042	3.00	8857.00000	0.3260	10.0	30942.0000	0.3647
Acenaphthene	50.0	375627.000	1.209	3.00	18689.0000	0.9923	10.0	64516.0000	1.072
Benzo[a]pyrene	50.0	697864.000	1.374	3.00	32607.0000	1.036	10.0	123380.000	1.125
Di-n-Octyl Phthalate	50.0	749327.000	1.475	3.00	29699.0000	0.9436	10.0	111236.000	1.014
Fluoranthene	50.0	810612.000	1.296	3.00	42795.0000	1.234	10.0	154789.000	1.366
Hexachlorobutadiene	50.0	148516.000	0.3356	3.00	8617.00000	0.3172	10.0	28017.0000	0.3302
Pentachlorophenol	50.0	92466.0000	0.1479	NA	NA	NA	10.0	9878.00000	0.08720
Phenol	50.0	222209.000	1.683	3.00	12237.0000	1.552	10.0	38761.0000	1.581
n-Nitrosodiphenylamine	50.0	392845.000	0.6283	3.00	20330.0000	0.5860	10.0	72097.0000	0.6364
2,4-Dinitrophenol	50.0	39482.0000	0.1271	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	108610.000	0.3495	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	141345.000	0.4548	3.00	4274.00000	0.2269	10.0	19516.0000	0.3243
n-Nitrosodipropylamine	50.0	145764.000	1.104	3.00	7583.00000	0.9620	10.0	25176.0000	1.027
2,4,5-Trichlorophenol	50.0	144110.000	0.4637	3.00	6389.00000	0.3392	10.0	24278.0000	0.4035
2,4-Dimethylphenol	50.0	162609.000	0.3675	3.00	8024.00000	0.2954	10.0	28316.0000	0.3337
2,4-Dinitrotoluene	50.0	121879.000	0.3922	3.00	5034.00000	0.2673	10.0	20446.0000	0.3398
2,6-Dinitrotoluene	50.0	94251.0000	0.3033	3.00	4342.00000	0.2306	10.0	16831.0000	0.2797
2-Chloronaphthalene	50.0	407576.000	1.312	3.00	23579.0000	1.252	10.0	77192.0000	1.283
2-Chlorophenol	50.0	163796.000	1.241	3.00	8755.00000	1.111	10.0	29242.0000	1.193
2-Methylnaphthalene	50.0	340978.000	0.7706	3.00	19262.0000	0.7091	10.0	63484.0000	0.7482
2-Methylphenol	50.0	139033.000	1.053	3.00	7022.00000	0.8908	10.0	23075.0000	0.9411
2-Nitroaniline	50.0	122870.000	0.3954	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	252297.000	0.4242	3.00	9541.00000	0.2593	10.0	38536.0000	0.3037
3-,4-Methylphenol	50.0	174305.000	1.320	3.00	9115.00000	1.156	10.0	29102.0000	1.187
3-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	71843.0000	0.1149	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	160280.000	0.2563	3.00	8943.00000	0.2578	10.0	29851.0000	0.2635
4-Chloroaniline	50.0	256808.000	0.5804	3.00	14696.0000	0.5410	10.0	44482.0000	0.5243
4-Chlorophenyl Phenyl Ether	50.0	268008.000	0.8624	3.00	15432.0000	0.8194	10.0	49083.0000	0.8157
4-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	556722.000	1.792	3.00	30007.0000	1.593	10.0	99847.0000	1.659
Anthracene	50.0	659857.000	1.055	3.00	33177.0000	0.9564	10.0	122454.000	1.081
Benzo[a]anthracene	50.0	856517.000	1.440	3.00	44797.0000	1.217	10.0	155466.000	1.225
Benzo[b]fluoranthene	50.0	744041.000	1.465	3.00	35475.0000	1.127	10.0	137001.000	1.249
Benzo[ghi]perylene	50.0	634281.000	1.249	3.00	28793.0000	0.9148	10.0	110138.000	1.004
Benzo[k]fluoranthene	50.0	720586.000	1.418	3.00	36969.0000	1.175	10.0	135918.000	1.239
Butyl Benzyl Phthalate	50.0	353129.000	0.5938	3.00	16206.0000	0.4404	10.0	60984.0000	0.4806
Carbazole	50.0	583195.000	0.9327	3.00	27605.0000	0.7957	10.0	97064.0000	0.8567
Chrysene	50.0	780963.000	1.313	3.00	41677.0000	1.133	10.0	142455.000	1.123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	785864.000	1.257	3.00	37116.0000	1.070	10.0	136904.000	1.208
Dibenz[ah]anthracene	50.0	668824.000	1.317	3.00	15272.0000	0.4852	10.0	111770.000	1.019
Dibenzofuran	50.0	530596.000	1.707	3.00	29342.0000	1.558	10.0	100820.000	1.676
Diethylphthalate	50.0	452344.000	1.456	3.00	24871.0000	1.321	10.0	83818.0000	1.393
Dimethylphthalate	50.0	420899.000	1.354	3.00	23726.0000	1.260	10.0	78749.0000	1.309
Fluorene	50.0	454404.000	1.462	3.00	24326.0000	1.292	10.0	83747.0000	1.392
Hexachlorobenzene	50.0	147756.000	0.2363	3.00	8064.00000	0.2325	10.0	29006.0000	0.2560
Hexachloroethane	50.0	84931.0000	0.6433	3.00	4341.00000	0.5507	10.0	15476.0000	0.6312
Indeno[1,2,3-cd]pyrene	50.0	771409.000	1.519	3.00	32705.0000	1.039	10.0	128253.000	1.169
Isophorone	50.0	356238.000	0.8051	3.00	18428.0000	0.6784	10.0	61327.0000	0.7228
Naphthalene	50.0	496713.000	1.123	3.00	27895.0000	1.027	10.0	89924.0000	1.060
Nitrobenzene	50.0	230519.000	0.5210	3.00	12396.0000	0.4563	10.0	43364.0000	0.5111
Phenanthrene	50.0	673951.000	1.078	3.00	36064.0000	1.040	10.0	122363.000	1.080
Pyrene	50.0	858213.000	1.443	3.00	45464.0000	1.236	10.0	159485.000	1.257
bis(2-Chloroethoxy)methane	50.0	196099.000	0.4432	3.00	10594.0000	0.3900	10.0	36560.0000	0.4309
bis(2-Chloroethyl)ether	50.0	120076.000	0.9095	3.00	7560.00000	0.9591	10.0	21099.0000	0.8605
bis(2-Chloroisopropyl)ether	50.0	168561.000	1.277	3.00	9772.00000	1.240	10.0	31239.0000	1.274
bis(2-Ethylhexyl)phthalate	50.0	473337.000	0.7959	3.00	19278.0000	0.5239	10.0	77603.0000	0.6115

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	37239.0000	0.3892	25.0	98728.0000	0.4309	80.0	279987.000	0.4502
2,4-Dichlorophenol	15.0	43596.0000	0.3229	25.0	114408.000	0.3521	80.0	319185.000	0.3681
2-Nitrophenol	15.0	24186.0000	0.1791	25.0	61605.0000	0.1896	80.0	175038.000	0.2019
4-Chloro-3-Methylphenol	15.0	52064.0000	0.3856	25.0	127250.000	0.3916	80.0	344375.000	0.3972
Acenaphthene	15.0	108002.000	1.129	25.0	270752.000	1.182	80.0	782768.000	1.259
Benzo[a]pyrene	15.0	211381.000	1.155	25.0	535905.000	1.219	80.0	1534154.00	1.240
Di-n-Octyl Phthalate	15.0	196277.000	1.073	25.0	533784.000	1.214	80.0	1600340.00	1.293
Fluoranthene	15.0	249915.000	1.365	25.0	615392.000	1.436	80.0	1671315.00	1.481
Hexachlorobutadiene	15.0	45100.0000	0.3340	25.0	107508.000	0.3309	80.0	278572.000	0.3213
Pentachlorophenol	15.0	20553.0000	0.1123	25.0	62391.0000	0.1456	80.0	200096.000	0.1773
Phenol	15.0	63090.0000	1.595	25.0	160868.000	1.683	80.0	427551.000	1.710
n-Nitrosodiphenylamine	15.0	118973.000	0.6498	25.0	290222.000	0.6772	80.0	791950.000	0.7018
2,4-Dinitrophenol	15.0	5805.00000	0.06070	25.0	25500.0000	0.1113	80.0	104015.000	0.1673
4-Nitrophenol	15.0	28275.0000	0.2955	25.0	68859.0000	0.3005	80.0	190640.000	0.3065
Hexachlorocyclopentadiene	15.0	35338.0000	0.3694	25.0	99354.0000	0.4336	80.0	288927.000	0.4646
n-Nitrosodipropylamine	15.0	40475.0000	1.023	25.0	100435.000	1.051	80.0	258884.000	1.036
2,4,5-Trichlorophenol	15.0	40465.0000	0.4230	25.0	104764.000	0.4572	80.0	293599.000	0.4721
2,4-Dimethylphenol	15.0	51431.0000	0.3809	25.0	130875.000	0.4028	80.0	324020.000	0.3737
2,4-Dinitrotoluene	15.0	35097.0000	0.3669	25.0	91689.0000	0.4001	80.0	253364.000	0.4074
2,6-Dinitrotoluene	15.0	28223.0000	0.2950	25.0	69700.0000	0.3042	80.0	190771.000	0.3068
2-Chloronaphthalene	15.0	124189.000	1.298	25.0	302662.000	1.321	80.0	817846.000	1.315
2-Chlorophenol	15.0	46771.0000	1.182	25.0	119193.000	1.247	80.0	321563.000	1.286
2-Methylnaphthalene	15.0	100887.000	0.7471	25.0	253922.000	0.7815	80.0	705363.000	0.8136
2-Methylphenol	15.0	38574.0000	0.9750	25.0	99916.0000	1.045	80.0	265250.000	1.061
2-Nitroaniline	15.0	33956.0000	0.3549	25.0	82121.0000	0.3584	80.0	218250.000	0.3509
3,3'-Dichlorobenzidine	15.0	67580.0000	0.3290	25.0	185573.000	0.3758	80.0	538090.000	0.3943
3-,4-Methylphenol	15.0	50298.0000	1.271	25.0	124501.000	1.302	80.0	338084.000	1.352
3-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
4,6-Dinitro-2-Methylphenol	15.0	14678.0000	0.08020	25.0	48640.0000	0.1135	80.0	172873.000	0.1532
4-Bromophenyl Phenyl Ether	15.0	49966.0000	0.2729	25.0	122137.000	0.2850	80.0	332607.000	0.2947
4-Chloroaniline	15.0	75575.0000	0.5597	25.0	190168.000	0.5853	80.0	521274.000	0.6012
4-Chlorophenyl Phenyl Ether	15.0	82230.0000	0.8595	25.0	200371.000	0.8745	80.0	537412.000	0.8642
4-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
Acenaphthylene	15.0	164778.000	1.722	25.0	413595.000	1.805	80.0	1135611.00	1.826
Anthracene	15.0	197050.000	1.076	25.0	491615.000	1.147	80.0	1366240.00	1.211
Benzo[a]anthracene	15.0	264299.000	1.287	25.0	650627.000	1.318	80.0	1796598.00	1.317
Benzo[b]fluoranthene	15.0	235779.000	1.289	25.0	590199.000	1.343	80.0	1595206.00	1.289
Benzo[ghi]perylene	15.0	196842.000	1.076	25.0	499944.000	1.137	80.0	1411076.00	1.140
Benzo[k]fluoranthene	15.0	224378.000	1.226	25.0	553580.000	1.259	80.0	1553835.00	1.256
Butyl Benzyl Phthalate	15.0	102371.000	0.4984	25.0	253670.000	0.5137	80.0	713612.000	0.5229
Carbazole	15.0	171716.000	0.9379	25.0	428714.000	1.000	80.0	1208224.00	1.071
Chrysene	15.0	235937.000	1.149	25.0	579470.000	1.174	80.0	1618976.00	1.186

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	232437.000	1.270	25.0	563217.000	1.314	80.0	1547150.00	1.371
Dibenz[ah]anthracene	15.0	200539.000	1.096	25.0	505358.000	1.150	80.0	1505496.00	1.217
Dibenzofuran	15.0	162303.000	1.697	25.0	394959.000	1.724	80.0	1074465.00	1.728
Diethylphthalate	15.0	137877.000	1.441	25.0	328909.000	1.435	80.0	868238.000	1.396
Dimethylphthalate	15.0	127130.000	1.329	25.0	312530.000	1.364	80.0	830445.000	1.335
Fluorene	15.0	134267.000	1.403	25.0	330753.000	1.444	80.0	920136.000	1.480
Hexachlorobenzene	15.0	48740.0000	0.2662	25.0	113654.000	0.2652	80.0	311857.000	0.2764
Hexachloroethane	15.0	25151.0000	0.6357	25.0	61542.0000	0.6437	80.0	158937.000	0.6357
Indeno[1,2,3-cd]pyrene	15.0	230092.000	1.257	25.0	599639.000	1.364	80.0	1731397.00	1.399
Isophorone	15.0	99381.0000	0.7360	25.0	245328.000	0.7550	80.0	642420.000	0.7410
Naphthalene	15.0	146165.000	1.082	25.0	361079.000	1.111	80.0	1006802.00	1.161
Nitrobenzene	15.0	69269.0000	0.5130	25.0	159759.000	0.4917	80.0	402450.000	0.4642
Phenanthrene	15.0	202627.000	1.107	25.0	493338.000	1.151	80.0	1370037.00	1.214
Pyrene	15.0	259537.000	1.264	25.0	637423.000	1.291	80.0	1725768.00	1.265
bis(2-Chloroethoxy)methane	15.0	57561.0000	0.4263	25.0	138912.000	0.4275	80.0	369360.000	0.4260
bis(2-Chloroethyl)ether	15.0	35230.0000	0.8905	25.0	82944.0000	0.8676	80.0	210681.000	0.8427
bis(2-Chloroisopropyl)ether	15.0	50752.0000	1.283	25.0	121163.000	1.267	80.0	303941.000	1.216
bis(2-Ethylhexyl)phthalate	15.0	131164.000	0.6386	25.0	339497.000	0.6876	80.0	972062.000	0.7123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	377204.000	0.4596	120	482469.000	0.4781
2,4-Dichlorophenol	100	440715.000	0.3829	120	570611.000	0.3965
2-Nitrophenol	100	239517.000	0.2081	120	311803.000	0.2166
4-Chloro-3-Methylphenol	100	469454.000	0.4079	120	602506.000	0.4186
Acenaphthene	100	1079901.00	1.316	120	1396579.00	1.384
Benzo[a]pyrene	100	2086082.00	1.270	120	2632858.00	1.319
Di-n-Octyl Phthalate	100	2184046.00	1.329	120	2800418.00	1.403
Fluoranthene	100	2215701.00	1.492	120	2755326.00	1.509
Hexachlorobutadiene	100	373087.000	0.3242	120	470703.000	0.3270
Pentachlorophenol	100	283307.000	0.1908	120	367345.000	0.2012
Phenol	100	580096.000	1.707	120	749079.000	1.774
n-Nitrosodiphenylamine	100	1066689.00	0.7182	120	1356134.00	0.7428
2,4-Dinitrophenol	100	157333.000	0.1917	120	213452.000	0.2115
4-Nitrophenol	100	252092.000	0.3072	120	323723.000	0.3208
Hexachlorocyclopentadiene	100	387575.000	0.4723	120	489911.000	0.4855
n-Nitrosodipropylamine	100	344175.000	1.013	120	438122.000	1.037
2,4,5-Trichlorophenol	100	394373.000	0.4806	120	508384.000	0.5038
2,4-Dimethylphenol	100	456542.000	0.3967	120	585962.000	0.4071
2,4-Dinitrotoluene	100	344032.000	0.4192	120	444879.000	0.4409
2,6-Dinitrotoluene	100	255107.000	0.3109	120	325195.000	0.3223
2-Chloronaphthalene	100	1099288.00	1.340	120	1413873.00	1.401
2-Chlorophenol	100	439835.000	1.294	120	563310.000	1.334
2-Methylnaphthalene	100	970956.000	0.8437	120	1256929.00	0.8733
2-Methylphenol	100	365442.000	1.076	120	472314.000	1.118
2-Nitroaniline	100	284645.000	0.3468	120	357321.000	0.3541
3,3'-Dichlorobenzidine	100	733235.000	0.4024	120	940493.000	0.4198
3-,4-Methylphenol	100	465577.000	1.370	120	602765.000	1.427
3-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
4,6-Dinitro-2-Methylphenol	100	246356.000	0.1659	120	329033.000	0.1802
4-Bromophenyl Phenyl Ether	100	451448.000	0.3040	120	574210.000	0.3145
4-Chloroaniline	100	718485.000	0.6243	120	926485.000	0.6437
4-Chlorophenyl Phenyl Ether	100	723357.000	0.8814	120	920890.000	0.9126
4-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
Acenaphthylene	100	1529219.00	1.863	120	1960028.00	1.942
Anthracene	100	1822066.00	1.227	120	2287957.00	1.253
Benzo[a]anthracene	100	2405433.00	1.320	120	3012702.00	1.345
Benzo[b]fluoranthene	100	2336636.00	1.422	120	2840065.00	1.423
Benzo[ghi]perylene	100	1892297.00	1.152	120	2342145.00	1.173
Benzo[k]fluoranthene	100	2043397.00	1.244	120	2665882.00	1.335
Butyl Benzyl Phthalate	100	970519.000	0.5326	120	1230823.00	0.5494
Carbazole	100	1604741.00	1.081	120	2037702.00	1.116
Chrysene	100	2170926.00	1.191	120	2734443.00	1.221

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2062132.00	1.389	120	2572387.00	1.409
Dibenz[ah]anthracene	100	2048294.00	1.247	120	2575721.00	1.290
Dibenzofuran	100	1433623.00	1.747	120	1812183.00	1.796
Diethylphthalate	100	1153162.00	1.405	120	1453341.00	1.440
Dimethylphthalate	100	1103240.00	1.344	120	1416244.00	1.404
Fluorene	100	1257267.00	1.532	120	1611047.00	1.597
Hexachlorobenzene	100	420081.000	0.2828	120	539403.000	0.2955
Hexachloroethane	100	211552.000	0.6226	120	270148.000	0.6397
Indeno[1,2,3-cd]pyrene	100	2335820.00	1.422	120	2927052.00	1.466
Isophorone	100	848363.000	0.7371	120	1079868.00	0.7503
Naphthalene	100	1372849.00	1.193	120	1779526.00	1.236
Nitrobenzene	100	535447.000	0.4652	120	667562.000	0.4638
Phenanthrene	100	1836910.00	1.237	120	2321323.00	1.272
Pyrene	100	2295342.00	1.260	120	2860075.00	1.277
bis(2-Chloroethoxy)methane	100	495133.000	0.4302	120	633036.000	0.4398
bis(2-Chloroethyl)ether	100	281115.000	0.8273	120	358453.000	0.8488
bis(2-Chloroisopropyl)ether	100	407669.000	1.200	120	512593.000	1.214
bis(2-Ethylhexyl)phthalate	100	1331118.00	0.7305	120	1689210.00	0.7541

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8270C

Instrument ID: HPMS4
Initial Calibration Date: 01-MAY-08 18:20
Column ID: F

Analyte	WG270026-02			WG270026-03			WG270026-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	213896.000	0.3594	3.00	9658.00000	0.3162	10.0	37176.0000	0.3372
2,4-Dichlorophenol	50.0	303612.000	0.2951	3.00	14450.0000	0.2704	10.0	55274.0000	0.2881
2-Nitrophenol	50.0	214221.000	0.2082	3.00	9663.00000	0.1808	10.0	36906.0000	0.1923
4-Chloro-3-Methylphenol	50.0	314036.000	0.3052	3.00	15363.0000	0.2875	10.0	55370.0000	0.2886
Acenaphthene	50.0	700740.000	1.178	3.00	34202.0000	1.120	10.0	127870.000	1.160
Benzo[a]pyrene	50.0	1063055.00	1.386	3.00	51746.0000	1.160	10.0	200911.000	1.201
Di-n-Octyl Phthalate	50.0	1445487.00	1.885	3.00	69888.0000	1.567	10.0	265511.000	1.587
Fluoranthene	50.0	1166672.00	1.152	3.00	59807.0000	1.260	10.0	221245.000	1.263
Hexachlorobutadiene	50.0	160849.000	0.1563	3.00	8055.00000	0.1507	10.0	31114.0000	0.1622
Pentachlorophenol	50.0	111604.000	0.1102	NA	NA	NA	NA	NA	NA
Phenol	50.0	433066.000	1.667	3.00	21975.0000	1.626	10.0	79484.0000	1.639
n-Nitrosodiphenylamine	50.0	694371.000	0.6856	3.00	34390.0000	0.7243	10.0	130230.000	0.7433
2,4-Dinitrophenol	50.0	85650.0000	0.1439	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	152557.000	0.2563	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	130310.000	0.2190	3.00	2242.00000	0.07340	10.0	14488.0000	0.1314
n-Nitrosodipropylamine	50.0	234796.000	0.9038	3.00	12093.0000	0.8949	10.0	42389.0000	0.8739
2,4,5-Trichlorophenol	50.0	231094.000	0.3883	3.00	10635.0000	0.3482	10.0	40488.0000	0.3672
2,4-Dimethylphenol	50.0	352554.000	0.3427	3.00	17512.0000	0.3277	10.0	64944.0000	0.3385
2,4-Dinitrotoluene	50.0	248146.000	0.4170	3.00	10715.0000	0.3508	10.0	43832.0000	0.3976
2,6-Dinitrotoluene	50.0	192581.000	0.3236	3.00	9105.00000	0.2981	10.0	35485.0000	0.3219
2-Chloronaphthalene	50.0	793211.000	1.333	3.00	40953.0000	1.341	10.0	149574.000	1.357
2-Chlorophenol	50.0	384841.000	1.481	3.00	19019.0000	1.408	10.0	71548.0000	1.475
2-Methylnaphthalene	50.0	715732.000	0.6957	3.00	36208.0000	0.6776	10.0	132472.000	0.6904
2-Methylphenol	50.0	282682.000	1.088	3.00	14107.0000	1.044	10.0	51876.0000	1.070
2-Nitroaniline	50.0	201691.000	0.3389	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	399640.000	0.4819	3.00	21879.0000	0.4616	10.0	77754.0000	0.4395
3-,4-Methylphenol	50.0	378839.000	1.458	3.00	18625.0000	1.378	10.0	69585.0000	1.435
3-Nitroaniline	50.0	209857.000	0.3526	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	141369.000	0.1396	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	205389.000	0.2028	3.00	10248.0000	0.2158	10.0	39426.0000	0.2250
4-Chloroaniline	50.0	485133.000	0.4715	3.00	23840.0000	0.4461	10.0	89078.0000	0.4642
4-Chlorophenyl Phenyl Ether	50.0	370004.000	0.6217	3.00	18515.0000	0.6062	10.0	70851.0000	0.6427
4-Nitroaniline	50.0	232425.000	0.3906	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	1115522.00	1.875	3.00	56108.0000	1.837	10.0	207526.000	1.882
Anthracene	50.0	1174602.00	1.160	3.00	58613.0000	1.235	10.0	220977.000	1.261
Benzo[a]anthracene	50.0	1122413.00	1.354	3.00	58630.0000	1.237	10.0	216124.000	1.222
Benzo[b]fluoranthene	50.0	1226825.00	1.600	3.00	62477.0000	1.401	10.0	231857.000	1.386
Benzo[ghi]perylene	50.0	1037410.00	1.353	3.00	49281.0000	1.105	10.0	196037.000	1.172
Benzo[k]fluoranthene	50.0	1057128.00	1.379	3.00	51197.0000	1.148	10.0	202960.000	1.213
Butyl Benzyl Phthalate	50.0	615514.000	0.7423	3.00	31102.0000	0.6562	10.0	114990.000	0.6499
Carbazole	50.0	1098814.00	1.085	3.00	54974.0000	1.158	10.0	197844.000	1.129
Chrysene	50.0	1075576.00	1.297	3.00	55168.0000	1.164	10.0	207637.000	1.174

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8270C
Instrument ID: HPMS4
Initial Calibration Date: 01-MAY-08 18:20
Column ID: F

Analyte	WG270026-02			WG270026-03			WG270026-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	1372456.00	1.355	3.00	65506.0000	1.380	10.0	248048.000	1.416
Dibenz[ah]anthracene	50.0	1040721.00	1.357	3.00	50233.0000	1.126	10.0	193942.000	1.160
Dibenzofuran	50.0	964865.000	1.621	3.00	50162.0000	1.642	10.0	182957.000	1.660
Diethylphthalate	50.0	779228.000	1.309	3.00	39751.0000	1.302	10.0	145296.000	1.318
Dimethylphthalate	50.0	766532.000	1.288	3.00	38800.0000	1.270	10.0	144282.000	1.309
Fluorene	50.0	810170.000	1.361	3.00	41216.0000	1.350	10.0	151427.000	1.374
Hexachlorobenzene	50.0	220339.000	0.2176	3.00	11084.0000	0.2334	10.0	42445.0000	0.2423
Hexachloroethane	50.0	155507.000	0.5986	3.00	7747.00000	0.5733	10.0	28827.0000	0.5943
Indeno[1,2,3-cd]pyrene	50.0	1218831.00	1.589	3.00	59442.0000	1.333	10.0	228209.000	1.364
Isophorone	50.0	575324.000	0.5592	3.00	28381.0000	0.5311	10.0	101861.000	0.5309
Naphthalene	50.0	1094999.00	1.064	3.00	56991.0000	1.067	10.0	205019.000	1.069
Nitrobenzene	50.0	353230.000	0.3433	3.00	17890.0000	0.3348	10.0	63888.0000	0.3330
Phenanthrene	50.0	1156019.00	1.142	3.00	58725.0000	1.237	10.0	219575.000	1.253
Pyrene	50.0	1247953.00	1.505	3.00	62334.0000	1.315	10.0	237233.000	1.341
bis(2-Chloroethoxy)methane	50.0	523968.000	0.5093	3.00	27390.0000	0.5125	10.0	95419.0000	0.4973
bis(2-Chloroethyl)ether	50.0	238876.000	0.9195	3.00	12143.0000	0.8986	10.0	43374.0000	0.8942
bis(2-Chloroisopropyl)ether	50.0	532416.000	2.049	3.00	27487.0000	2.034	10.0	94773.0000	1.954
bis(2-Ethylhexyl)phthalate	50.0	846687.000	1.021	3.00	42789.0000	0.9028	10.0	154954.000	0.8758

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-05			WG270026-06			WG270026-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	57373.0000	0.3582	25.0	161608.000	0.3736	80.0	410109.000	0.3749
2,4-Dichlorophenol	15.0	82505.0000	0.2965	25.0	227916.000	0.3114	80.0	558306.000	0.3001
2-Nitrophenol	15.0	57305.0000	0.2059	25.0	156849.000	0.2143	80.0	387173.000	0.2081
4-Chloro-3-Methylphenol	15.0	84367.0000	0.3031	25.0	223392.000	0.3052	80.0	548629.000	0.2949
Acenaphthene	15.0	189721.000	1.185	25.0	528961.000	1.223	80.0	1314341.00	1.201
Benzo[a]pyrene	15.0	292158.000	1.224	25.0	859582.000	1.256	80.0	2124611.00	1.232
Di-n-Octyl Phthalate	15.0	388336.000	1.628	25.0	1083533.00	1.584	80.0	2670591.00	1.548
Fluoranthene	15.0	325362.000	1.294	25.0	925148.000	1.341	80.0	2247918.00	1.270
Hexachlorobutadiene	15.0	45219.0000	0.1625	25.0	126752.000	0.1732	80.0	306557.000	0.1648
Pentachlorophenol	15.0	19495.0000	0.07750	25.0	77043.0000	0.1116	80.0	237196.000	0.1340
Phenol	15.0	119795.000	1.699	25.0	309383.000	1.691	80.0	746208.000	1.600
n-Nitrosodiphenylamine	15.0	192983.000	0.7673	25.0	535227.000	0.7755	80.0	1306154.00	0.7380
2,4-Dinitrophenol	15.0	9899.00000	0.06180	25.0	53746.0000	0.1242	80.0	190683.000	0.1743
4-Nitrophenol	15.0	37265.0000	0.2327	25.0	104297.000	0.2411	80.0	265917.000	0.2431
Hexachlorocyclopentadiene	15.0	24701.0000	0.1542	25.0	94480.0000	0.2184	80.0	268121.000	0.2451
n-Nitrosodipropylamine	15.0	65600.0000	0.9302	25.0	163680.000	0.8944	80.0	393892.000	0.8443
2,4,5-Trichlorophenol	15.0	60593.0000	0.3783	25.0	172988.000	0.3999	80.0	433004.000	0.3958
2,4-Dimethylphenol	15.0	96018.0000	0.3450	25.0	257308.000	0.3516	80.0	620635.000	0.3336
2,4-Dinitrotoluene	15.0	66390.0000	0.4145	25.0	186327.000	0.4307	80.0	460002.000	0.4205
2,6-Dinitrotoluene	15.0	52199.0000	0.3259	25.0	144999.000	0.3352	80.0	358894.000	0.3280
2-Chloronaphthalene	15.0	219832.000	1.372	25.0	611038.000	1.413	80.0	1477136.00	1.350
2-Chlorophenol	15.0	106500.000	1.510	25.0	281781.000	1.540	80.0	686300.000	1.471
2-Methylnaphthalene	15.0	198076.000	0.7117	25.0	533827.000	0.7294	80.0	1309509.00	0.7039
2-Methylphenol	15.0	76621.0000	1.086	25.0	203494.000	1.112	80.0	498712.000	1.069
2-Nitroaniline	15.0	54078.0000	0.3376	25.0	137071.000	0.3169	80.0	337875.000	0.3088
3,3'-Dichlorobenzidine	15.0	108305.000	0.4309	25.0	326029.000	0.4580	80.0	782664.000	0.4297
3-,4-Methylphenol	15.0	103719.000	1.471	25.0	272863.000	1.491	80.0	664697.000	1.425
3-Nitroaniline	15.0	55519.0000	0.3466	25.0	153515.000	0.3549	80.0	389825.000	0.3563
4,6-Dinitro-2-Methylphenol	15.0	30842.0000	0.1226	25.0	105490.000	0.1529	80.0	293051.000	0.1656
4-Bromophenyl Phenyl Ether	15.0	57370.0000	0.2281	25.0	164649.000	0.2386	80.0	400854.000	0.2265
4-Chloroaniline	15.0	132889.000	0.4775	25.0	353564.000	0.4831	80.0	869969.000	0.4676
4-Chlorophenyl Phenyl Ether	15.0	103892.000	0.6486	25.0	290877.000	0.6724	80.0	708165.000	0.6473
4-Nitroaniline	15.0	59667.0000	0.3725	25.0	173218.000	0.4004	80.0	421116.000	0.3849
Acenaphthylene	15.0	308590.000	1.927	25.0	847050.000	1.958	80.0	2073166.00	1.895
Anthracene	15.0	324639.000	1.291	25.0	911660.000	1.321	80.0	2212043.00	1.250
Benzo[a]anthracene	15.0	314944.000	1.253	25.0	906430.000	1.273	80.0	2226123.00	1.222
Benzo[b]fluoranthene	15.0	328239.000	1.376	25.0	963914.000	1.409	80.0	2530262.00	1.467
Benzo[ghi]perylene	15.0	284789.000	1.194	25.0	849718.000	1.242	80.0	2088490.00	1.211
Benzo[k]fluoranthene	15.0	268226.000	1.124	25.0	773851.000	1.131	80.0	2007308.00	1.164
Butyl Benzyl Phthalate	15.0	170877.000	0.6799	25.0	461465.000	0.6482	80.0	1108649.00	0.6087
Carbazole	15.0	290310.000	1.154	25.0	844699.000	1.224	80.0	2062029.00	1.165
Chrysene	15.0	305943.000	1.217	25.0	870053.000	1.222	80.0	2122067.00	1.165

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-05			WG270026-06			WG270026-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	375484.000	1.493	25.0	1032640.00	1.496	80.0	2524280.00	1.426
Dibenz[ah]anthracene	15.0	287666.000	1.206	25.0	856309.000	1.252	80.0	2118876.00	1.228
Dibenzofuran	15.0	270269.000	1.687	25.0	738548.000	1.707	80.0	1775249.00	1.623
Diethylphthalate	15.0	215347.000	1.344	25.0	587611.000	1.358	80.0	1435508.00	1.312
Dimethylphthalate	15.0	211038.000	1.318	25.0	581700.000	1.345	80.0	1413921.00	1.292
Fluorene	15.0	225807.000	1.410	25.0	628019.000	1.452	80.0	1521889.00	1.391
Hexachlorobenzene	15.0	61194.0000	0.2433	25.0	179303.000	0.2598	80.0	435758.000	0.2462
Hexachloroethane	15.0	42676.0000	0.6051	25.0	110175.000	0.6021	80.0	274039.000	0.5874
Indeno[1,2,3-cd]pyrene	15.0	336237.000	1.409	25.0	995201.000	1.455	80.0	2474832.00	1.435
Isophorone	15.0	156964.000	0.5640	25.0	399195.000	0.5455	80.0	983542.000	0.5287
Naphthalene	15.0	304035.000	1.093	25.0	810399.000	1.107	80.0	1966338.00	1.057
Nitrobenzene	15.0	96776.0000	0.3477	25.0	246316.000	0.3366	80.0	601558.000	0.3234
Phenanthrene	15.0	325361.000	1.294	25.0	902996.000	1.308	80.0	2191416.00	1.238
Pyrene	15.0	350219.000	1.394	25.0	985403.000	1.384	80.0	2393241.00	1.314
bis(2-Chloroethoxy)methane	15.0	142693.000	0.5127	25.0	369937.000	0.5055	80.0	893452.000	0.4803
bis(2-Chloroethyl)ether	15.0	65918.0000	0.9347	25.0	162267.000	0.8867	80.0	394748.000	0.8461
bis(2-Chloroisopropyl)ether	15.0	145603.000	2.065	25.0	350578.000	1.916	80.0	844098.000	1.809
bis(2-Ethylhexyl)phthalate	15.0	233093.000	0.9275	25.0	634439.000	0.8912	80.0	1567419.00	0.8606

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-08			WG270026-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	447858.000	0.3697	120	643690.000	0.3815
2,4-Dichlorophenol	100	618048.000	0.2973	120	882977.000	0.3104
2-Nitrophenol	100	436005.000	0.2097	120	613171.000	0.2156
4-Chloro-3-Methylphenol	100	625012.000	0.3006	120	858638.000	0.3019
Acenaphthene	100	1445655.00	1.193	120	2063246.00	1.223
Benzo[a]pyrene	100	2233225.00	1.234	120	3274407.00	1.275
Di-n-Octyl Phthalate	100	2957962.00	1.635	120	4137987.00	1.612
Fluoranthene	100	2399644.00	1.259	120	3471315.00	1.295
Hexachlorobutadiene	100	332769.000	0.1601	120	478165.000	0.1681
Pentachlorophenol	100	260266.000	0.1365	120	387183.000	0.1444
Phenol	100	856657.000	1.653	120	1169326.00	1.653
n-Nitrosodiphenylamine	100	1420595.00	0.7453	120	2022769.00	0.7544
2,4-Dinitrophenol	100	222143.000	0.1834	120	330526.000	0.1959
4-Nitrophenol	100	320994.000	0.2650	120	439441.000	0.2605
Hexachlorocyclopentadiene	100	295135.000	0.2436	120	425111.000	0.2520
n-Nitrosodipropylamine	100	460426.000	0.8883	120	614434.000	0.8688
2,4,5-Trichlorophenol	100	475425.000	0.3924	120	692229.000	0.4103
2,4-Dimethylphenol	100	703802.000	0.3385	120	980909.000	0.3449
2,4-Dinitrotoluene	100	507795.000	0.4192	120	715156.000	0.4239
2,6-Dinitrotoluene	100	398822.000	0.3292	120	561974.000	0.3331
2-Chloronaphthalene	100	1610245.00	1.329	120	2283628.00	1.354
2-Chlorophenol	100	778848.000	1.503	120	1087390.00	1.538
2-Methylnaphthalene	100	1449004.00	0.6969	120	2053060.00	0.7218
2-Methylphenol	100	567586.000	1.095	120	781322.000	1.105
2-Nitroaniline	100	398379.000	0.3288	120	534374.000	0.3167
3,3'-Dichlorobenzidine	100	830270.000	0.4303	120	1205729.00	0.4388
3-,4-Methylphenol	100	757389.000	1.461	120	1049176.00	1.484
3-Nitroaniline	100	438292.000	0.3618	120	616809.000	0.3656
4,6-Dinitro-2-Methylphenol	100	328692.000	0.1724	120	474464.000	0.1769
4-Bromophenyl Phenyl Ether	100	428386.000	0.2247	120	623995.000	0.2327
4-Chloroaniline	100	973744.000	0.4684	120	1354510.00	0.4762
4-Chlorophenyl Phenyl Ether	100	754413.000	0.6227	120	1082359.00	0.6416
4-Nitroaniline	100	466595.000	0.3851	120	654736.000	0.3881
Acenaphthylene	100	2270577.00	1.874	120	3210161.00	1.903
Anthracene	100	2380422.00	1.249	120	3422728.00	1.277
Benzo[a]anthracene	100	2356284.00	1.221	120	3438911.00	1.252
Benzo[b]fluoranthene	100	2472693.00	1.367	120	3743306.00	1.458
Benzo[ghi]perylene	100	2188227.00	1.209	120	3194506.00	1.244
Benzo[k]fluoranthene	100	2314600.00	1.279	120	3259773.00	1.270
Butyl Benzyl Phthalate	100	1218920.00	0.6317	120	1685704.00	0.6135
Carbazole	100	2245331.00	1.178	120	3198016.00	1.193
Chrysene	100	2257031.00	1.170	120	3249287.00	1.183

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050290
Analytical Method: 8270C
Instrument ID: HPMS4
Initial Calibration Date: 01-MAY-08 18:20
Column ID: F

Analyte	WG270026-08			WG270026-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2762453.00	1.449	120	3855498.00	1.438
Dibenz[ah]anthracene	100	2234944.00	1.235	120	3253472.00	1.267
Dibenzofuran	100	1945135.00	1.606	120	2743594.00	1.626
Diethylphthalate	100	1579825.00	1.304	120	2212035.00	1.311
Dimethylphthalate	100	1543449.00	1.274	120	2198254.00	1.303
Fluorene	100	1655932.00	1.367	120	2363407.00	1.401
Hexachlorobenzene	100	466141.000	0.2446	120	684926.000	0.2554
Hexachloroethane	100	311853.000	0.6016	120	424057.000	0.5996
Indeno[1,2,3-cd]pyrene	100	2602910.00	1.438	120	3818123.00	1.487
Isophorone	100	1141843.00	0.5492	120	1544513.00	0.5430
Naphthalene	100	2206391.00	1.061	120	3080519.00	1.083
Nitrobenzene	100	696846.000	0.3352	120	942356.000	0.3313
Phenanthrene	100	2369275.00	1.243	120	3402926.00	1.269
Pyrene	100	2583901.00	1.339	120	3718540.00	1.353
bis(2-Chloroethoxy)methane	100	1031581.00	0.4962	120	1398653.00	0.4918
bis(2-Chloroethyl)ether	100	464881.000	0.8969	120	612765.000	0.8664
bis(2-Chloroisopropyl)ether	100	1014370.00	1.957	120	1313850.00	1.858
bis(2-Ethylhexyl)phthalate	100	1725473.00	0.8942	120	2411629.00	0.8776

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	53700	ug/L	0.449	7.40	25	
2,4-Dichlorophenol	CCC	50000	49600	ug/L	0.346	0.900	25	
4-Chloro-3-Methylphenol	CCC	50000	50500	ug/L	0.391	1.00	25	
Acenaphthene	CCC	50000	49200	ug/L	1.17	1.60	25	
Benzo[a]pyrene	CCC	50000	56600	ug/L	1.38	13.2	25	
Di-n-Octyl Phthalate	CCC	50000	51100	ug/L	1.36	2.20	25	
Fluoranthene	CCC	50000	57200	ug/L	1.60	14.5	25	
Hexachlorobutadiene	CCC	50000	54300	ug/L	0.356	8.60	25	
n-Nitrosodiphenylamine	CCC	50000	51600	ug/L	0.689	3.20	25	
Pentachlorophenol	CCC	50000	57800	ug/L	0.205	15.5	25	
Phenol	CCC	50000	49100	ug/L	1.63	1.80	25	
2,4-Dinitrophenol	SPCC	50000	62900	ug/L	0.186	25.8	25	*
4-Nitrophenol	SPCC	50000	44900	ug/L	0.282	10.2	25	
Hexachlorocyclopentadiene	SPCC	50000	47600	ug/L	0.437	4.80	25	
n-Nitrosodipropylamine	SPCC	50000	44200	ug/L	0.911	11.7	25	
2,4,5-Trichlorophenol		50000	53500	ug/L	0.474	7.00	25	
2,4-Dimethylphenol		50000	47100	ug/L	0.349	5.70	25	
2,4-Dinitrotoluene		50000	57500	ug/L	0.436	15.0	25	
2,6-Dinitrotoluene		50000	54700	ug/L	0.322	9.30	25	
2-Chloronaphthalene		50000	46100	ug/L	1.21	7.70	25	
2-Chlorophenol		50000	49800	ug/L	1.23	0.400	25	
2-Methylnaphthalene		50000	53500	ug/L	0.840	6.90	25	
2-Nitroaniline		50000	55100	ug/L	0.397	10.3	25	
3,3'-Dichlorobenzidine		50000	31900	ug/L	0.249	36.2	25	*
3-,4-Methylphenol		50000	48300	ug/L	1.25	3.50	25	
3-Nitroaniline		50000	47800	ug/L	0.295	4.40	25	
4,6-Dinitro-2-Methylphenol		50000	61500	ug/L	0.165	23.1	25	
4-Bromophenyl Phenyl Ether		50000	44700	ug/L	0.251	10.6	25	
4-Chloroaniline		50000	51100	ug/L	0.596	2.30	25	
4-Chlorophenyl Phenyl Ether		50000	48600	ug/L	0.837	2.90	25	
4-Nitroaniline		50000	47800	ug/L	0.295	4.40	25	
Acenaphthylene		50000	55700	ug/L	1.98	11.3	25	
Anthracene		50000	56000	ug/L	1.26	12.1	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	7.90	25	
Benzo[b]fluoranthene		50000	54100	ug/L	1.43	8.20	25	
Benzo[ghi]perylene		50000	55700	ug/L	1.23	11.4	25	
Benzo[k]fluoranthene		50000	55600	ug/L	1.41	11.3	25	
bis(2-Chloroethoxy)methane		50000	48400	ug/L	0.413	3.30	25	
bis(2-Chloroethyl)ether		50000	43500	ug/L	0.763	12.9	25	
bis(2-Chloroisopropyl)ether		50000	45300	ug/L	1.13	9.40	25	
bis(2-Ethylhexyl)phthalate		50000	53800	ug/L	0.733	7.50	25	
Butyl Benzyl Phthalate		50000	54000	ug/L	0.558	8.00	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Carbazole		50000	53800	ug/L	1.05	7.60	25	
Chrysene		50000	53500	ug/L	1.27	6.90	25	
Dibenz[ah]anthracene		50000	51200	ug/L	1.27	2.30	25	
Dibenzofuran		50000	53400	ug/L	1.82	6.70	25	
Diethylphthalate		50000	47500	ug/L	1.34	5.00	25	
Dimethylphthalate		50000	50400	ug/L	1.35	0.800	25	
Di-n-Butyl Phthalate		50000	48100	ug/L	1.24	3.80	25	
Fluorene		50000	54300	ug/L	1.58	8.70	25	
Hexachlorobenzene		50000	56800	ug/L	0.300	13.6	25	
Hexachloroethane		50000	49300	ug/L	0.617	1.40	25	
Indeno[1,2,3-cd]pyrene		50000	55300	ug/L	1.47	10.7	25	
Isophorone		50000	55400	ug/L	0.820	10.7	25	
Naphthalene		50000	53000	ug/L	1.19	6.10	25	
Nitrobenzene		50000	47600	ug/L	0.463	4.80	25	
Phenanthrene		50000	54500	ug/L	1.25	8.90	25	
Pyrene		50000	55800	ug/L	1.44	11.6	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 05/01/2008 Sample ID: WG270026-10
Instrument ID: HPMS4 Run Time: 18:52 Method: 8270C
File ID: 4M42596 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG270026 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52600	ug/L	0.377	5.10	25	
2,4-Dichlorophenol	CCC	50000	49800	ug/L	0.295	0.400	25	
2-Nitrophenol	CCC	50000	51400	ug/L	0.210	2.80	25	
4-Chloro-3-Methylphenol	CCC	50000	50400	ug/L	0.301	0.800	25	
Acenaphthene	CCC	50000	54700	ug/L	1.30	9.40	25	
Benzo[a]pyrene	CCC	50000	55900	ug/L	1.39	11.8	25	
Di-n-Octyl Phthalate	CCC	50000	52000	ug/L	1.70	4.10	25	
Fluoranthene	CCC	50000	57100	ug/L	1.45	14.2	25	
Hexachlorobutadiene	CCC	50000	56700	ug/L	0.184	13.5	25	
n-Nitrosodiphenylamine	CCC	50000	52400	ug/L	0.777	4.70	25	
Pentachlorophenol	CCC	50000	61600	ug/L	0.160	23.1	25	
Phenol	CCC	50000	48100	ug/L	1.59	3.80	25	
2,4-Dinitrophenol	SPCC	50000	55600	ug/L	0.183	11.1	25	
4-Nitrophenol	SPCC	50000	49200	ug/L	0.246	1.60	25	
Hexachlorocyclopentadiene	SPCC	50000	51700	ug/L	0.243	3.40	25	
n-Nitrosodipropylamine	SPCC	50000	47000	ug/L	0.834	6.00	25	
2,4,5-Trichlorophenol		50000	53400	ug/L	0.411	6.70	25	
2,4-Dimethylphenol		50000	48000	ug/L	0.327	4.00	25	
2,4-Dinitrotoluene		50000	56400	ug/L	0.461	12.7	25	
2,6-Dinitrotoluene		50000	53700	ug/L	0.348	7.30	25	
2-Chloronaphthalene		50000	45400	ug/L	1.23	9.10	25	
2-Chlorophenol		50000	48100	ug/L	1.43	3.90	25	
2-Methylnaphthalene		50000	53200	ug/L	0.749	6.40	25	
2-Methylphenol		50000	50300	ug/L	1.09	0.600	25	
2-Nitroaniline		50000	55000	ug/L	0.357	10.0	25	
3,3'-Dichlorobenzidine		50000	44200	ug/L	0.395	11.6	25	
3-,4-Methylphenol		50000	48100	ug/L	1.39	3.90	25	
3-Nitroaniline		50000	56400	ug/L	0.402	12.8	25	
4,6-Dinitro-2-Methylphenol		50000	58800	ug/L	0.182	17.5	25	
4-Bromophenyl Phenyl Ether		50000	44700	ug/L	0.201	10.5	25	
4-Chloroaniline		50000	52300	ug/L	0.491	4.70	25	
4-Chlorophenyl Phenyl Ether		50000	49600	ug/L	0.633	0.700	25	
4-Nitroaniline		50000	54100	ug/L	0.419	8.30	25	
Acenaphthylene		50000	54800	ug/L	2.08	9.60	25	
Anthracene		50000	56600	ug/L	1.42	13.1	25	
Benzo[a]anthracene		50000	53500	ug/L	1.34	6.90	25	
Benzo[b]fluoranthene		50000	54000	ug/L	1.55	8.10	25	
Benzo[ghi]perylene		50000	55500	ug/L	1.35	10.9	25	
Benzo[k]fluoranthene		50000	54300	ug/L	1.32	8.50	25	
bis(2-Chloroethoxy)methane		50000	38200	ug/L	0.383	23.6	25	
bis(2-Chloroethyl)ether		50000	46300	ug/L	0.827	7.40	25	
bis(2-Chloroisopropyl)ether		50000	47100	ug/L	1.84	5.80	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050290 Run Date: 05/01/2008 Sample ID: WG270026-10
Instrument ID: HPMS4 Run Time: 18:52 Method: 8270C
File ID: 4M42596 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG270026 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
bis(2-Ethylhexyl)phthalate		50000	50500	ug/L	0.916	1.10	25	
Butyl Benzyl Phthalate		50000	52700	ug/L	0.689	5.40	25	
Carbazole		50000	55300	ug/L	1.28	10.6	25	
Chrysene		50000	53500	ug/L	1.28	6.90	25	
Dibenz[ah]anthracene		50000	55400	ug/L	1.36	10.8	25	
Dibenzofuran		50000	53400	ug/L	1.76	6.80	25	
Diethylphthalate		50000	48900	ug/L	1.29	2.20	25	
Dimethylphthalate		50000	49800	ug/L	1.30	0.300	25	
Di-n-Butyl Phthalate		50000	49300	ug/L	1.41	1.50	25	
Fluorene		50000	54500	ug/L	1.51	9.00	25	
Hexachlorobenzene		50000	54800	ug/L	0.266	9.70	25	
Hexachloroethane		50000	51100	ug/L	0.608	2.20	25	
Indeno[1,2,3-cd]pyrene		50000	55500	ug/L	1.60	11.1	25	
Isophorone		50000	56600	ug/L	0.616	13.2	25	
Naphthalene		50000	52800	ug/L	1.14	5.70	25	
Nitrobenzene		50000	50400	ug/L	0.338	0.800	25	
Phenanthrene		50000	54600	ug/L	1.36	9.30	25	
Pyrene		50000	54700	ug/L	1.50	9.40	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/16/2008 Sample ID: WG271453-02
Instrument ID: HPMS4 Run Time: 09:18 Method: 8270C
File ID: 4M42812 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271546 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52000	ug/L	0.374	4.08	20	
2,4-Dichlorophenol	CCC	50000	49600	ug/L	0.294	0.848	20	
2-Nitrophenol	CCC	50000	49800	ug/L	0.204	0.400	20	
4-Chloro-3-Methylphenol	CCC	50000	50300	ug/L	0.300	0.512	20	
Acenaphthene	CCC	50000	49600	ug/L	1.18	0.841	20	
Benzo[a]pyrene	CCC	50000	54600	ug/L	1.36	9.17	20	
Di-n-Octyl Phthalate	CCC	50000	51900	ug/L	1.69	3.85	20	
Fluoranthene	CCC	50000	44900	ug/L	1.14	10.3	20	
Hexachlorobutadiene	CCC	50000	55600	ug/L	0.181	11.3	20	
n-Nitrosodiphenylamine	CCC	50000	44800	ug/L	0.665	10.4	20	
Pentachlorophenol	CCC	50000	40000	ug/L	0.0945	20.0	20	
Phenol	CCC	50000	48900	ug/L	1.62	2.23	20	
1,4-Dichlorobenzene	CCC	50000	50900	ug/L	1.65	1.87	25	
2,4-Dinitrophenol	SPCC	50000	42000	ug/L	0.126	16.0	25	
4-Nitrophenol	SPCC	50000	44300	ug/L	0.221	11.3	25	
Hexachlorocyclopentadiene	SPCC	50000	49400	ug/L	0.231	1.26	25	
n-Nitrosodipropylamine	SPCC	50000	48800	ug/L	0.867	2.32	25	
2,4,5-Trichlorophenol		50000	51300	ug/L	0.395	2.51	25	
2,4-Dimethylphenol		50000	48000	ug/L	0.327	3.96	25	
2,4-Dinitrotoluene		50000	49800	ug/L	0.407	0.444	25	
2,6-Dinitrotoluene		50000	49900	ug/L	0.324	0.249	25	
2-Chloronaphthalene		50000	49300	ug/L	1.34	1.39	25	
2-Chlorophenol		50000	50100	ug/L	1.49	0.275	25	
2-Methylnaphthalene		50000	50100	ug/L	0.705	0.161	25	
2-Methylphenol		50000	49100	ug/L	1.06	1.80	25	
2-Nitroaniline		50000	47200	ug/L	0.306	5.63	25	
3,3'-Dichlorobenzidine		50000	55700	ug/L	0.497	11.4	25	
3-,4-Methylphenol		50000	48300	ug/L	1.40	3.45	25	
3-Nitroaniline		50000	50700	ug/L	0.361	1.30	25	
4,6-Dinitro-2-Methylphenol		50000	40200	ug/L	0.125	19.6	25	
4-Bromophenyl Phenyl Ether		50000	48800	ug/L	0.219	2.44	25	
4-Chloroaniline		50000	49300	ug/L	0.463	1.44	25	
4-Chlorophenyl Phenyl Ether		50000	50200	ug/L	0.640	0.388	25	
4-Nitroaniline		50000	50200	ug/L	0.389	0.442	25	
Acenaphthylene		50000	49200	ug/L	1.86	1.56	25	
Anthracene		50000	45900	ug/L	1.15	8.13	25	
Benzo[a]anthracene		50000	52500	ug/L	1.32	5.02	25	
Benzo[b]fluoranthene		50000	57600	ug/L	1.65	15.1	25	
Benzo[ghi]perylene		50000	56800	ug/L	1.38	13.5	25	
Benzo[k]fluoranthene		50000	54300	ug/L	1.32	8.56	25	
bis(2-Chloroethoxy)methane		50000	47600	ug/L	0.477	4.83	25	
bis(2-Chloroethyl)ether		50000	47600	ug/L	0.850	4.80	25	

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/16/2008 Sample ID: WG271453-02
Instrument ID: HPMS4 Run Time: 09:18 Method: 8270C
File ID: 4M42812 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271546 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	42100	ug/L	1.65	15.8	25	
bis(2-Ethylhexyl)phthalate		50000	51100	ug/L	0.926	2.14	25	
Butyl Benzyl Phthalate		50000	48900	ug/L	0.639	2.26	25	
Carbazole		50000	45400	ug/L	1.05	9.17	25	
Chrysene		50000	52300	ug/L	1.25	4.58	25	
Dibenz[ah]anthracene		50000	56800	ug/L	1.40	13.6	25	
Dibenzofuran		50000	48100	ug/L	1.58	3.74	25	
Diethylphthalate		50000	51200	ug/L	1.35	2.48	25	
Dimethylphthalate		50000	49700	ug/L	1.29	0.640	25	
Di-n-Butyl Phthalate		50000	46000	ug/L	1.32	7.92	25	
Fluorene		50000	49000	ug/L	1.36	2.03	25	
Hexachlorobenzene		50000	51000	ug/L	0.248	2.01	25	
Hexachloroethane		50000	52400	ug/L	0.624	4.84	25	
Indeno[1,2,3-cd]pyrene		50000	57000	ug/L	1.64	14.0	25	
Isophorone		50000	50700	ug/L	0.551	1.34	25	
Naphthalene		50000	48600	ug/L	1.04	2.82	25	
Nitrobenzene		50000	49300	ug/L	0.331	1.32	25	
Phenanthrene		50000	45700	ug/L	1.14	8.66	25	
Pyrene		50000	50000	ug/L	1.37	0.0752	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1100941
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271895-02
Instrument ID: HPMS12 Run Time: 08:57 Method: 8270C
File ID: 12M21820 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	54300	ug/L	0.454	8.59	20	
2,4-Dichlorophenol	CCC	50000	53300	ug/L	0.372	6.65	20	
2-Nitrophenol	CCC	50000	51500	ug/L	0.210	3.00	20	
4-Chloro-3-Methylphenol	CCC	50000	53000	ug/L	0.410	6.06	20	
Acenaphthene	CCC	50000	54300	ug/L	1.30	8.63	20	
Benzo[a]pyrene	CCC	50000	57400	ug/L	1.40	14.9	20	
Di-n-Octyl Phthalate	CCC	50000	57200	ug/L	1.54	14.4	20	
Fluoranthene	CCC	50000	48500	ug/L	1.36	2.98	20	
Hexachlorobutadiene	CCC	50000	54100	ug/L	0.354	8.11	20	
n-Nitrosodiphenylamine	CCC	50000	48700	ug/L	0.650	2.65	20	
Pentachlorophenol	CCC	50000	43400	ug/L	0.146	13.1	20	
Phenol	CCC	50000	53200	ug/L	1.77	6.37	20	
1,4-Dichlorobenzene	CCC	50000	51300	ug/L	1.57	2.69	25	
2,4-Dinitrophenol	SPCC	50000	61300	ug/L	0.179	22.6	25	
4-Nitrophenol	SPCC	50000	58400	ug/L	0.366	16.8	25	
Hexachlorocyclopentadiene	SPCC	50000	50700	ug/L	0.468	1.48	25	
n-Nitrosodipropylamine	SPCC	50000	53200	ug/L	1.10	6.37	25	
2,4,5-Trichlorophenol		50000	54600	ug/L	0.484	9.28	25	
2,4-Dimethylphenol		50000	50200	ug/L	0.371	0.389	25	
2,4-Dinitrotoluene		50000	53700	ug/L	0.407	7.40	25	
2,6-Dinitrotoluene		50000	52300	ug/L	0.308	4.60	25	
2-Chloronaphthalene		50000	52100	ug/L	1.37	4.17	25	
2-Chlorophenol		50000	52400	ug/L	1.29	4.73	25	
2-Methylnaphthalene		50000	50000	ug/L	0.787	0.0866	25	
2-Methylphenol		50000	52300	ug/L	1.07	4.67	25	
2-Nitroaniline		50000	57900	ug/L	0.417	15.9	25	
3,3'-Dichlorobenzidine		50000	53400	ug/L	0.430	6.89	25	
3-,4-Methylphenol		50000	50600	ug/L	1.31	1.22	25	
3-Nitroaniline		50000	51500	ug/L	0.318	3.08	25	
4,6-Dinitro-2-Methylphenol		50000	60000	ug/L	0.160	20.0	25	
4-Bromophenyl Phenyl Ether		50000	48900	ug/L	0.275	2.21	25	
4-Chloroaniline		50000	51900	ug/L	0.605	3.83	25	
4-Chlorophenyl Phenyl Ether		50000	49600	ug/L	0.854	0.821	25	
4-Nitroaniline		50000	51500	ug/L	0.318	3.08	25	
Acenaphthylene		50000	51300	ug/L	1.82	2.66	25	
Anthracene		50000	48900	ug/L	1.10	2.11	25	
Benzo[a]anthracene		50000	54700	ug/L	1.43	9.33	25	
Benzo[b]fluoranthene		50000	56800	ug/L	1.51	13.7	25	
Benzo[ghi]perylene		50000	51600	ug/L	1.14	3.28	25	
Benzo[k]fluoranthene		50000	57300	ug/L	1.45	14.5	25	
bis(2-Chloroethoxy)methane		50000	50200	ug/L	0.428	0.383	25	
bis(2-Chloroethyl)ether		50000	51400	ug/L	0.900	2.78	25	

CCV - Modified 03/05/2008
PDF File ID: 1100941
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050290 Run Date: 05/21/2008 Sample ID: WG271895-02
Instrument ID: HPMS12 Run Time: 08:57 Method: 8270C
File ID: 12M21820 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	52400	ug/L	1.31	4.72	25	
bis(2-Ethylhexyl)phthalate		50000	55100	ug/L	0.752	10.3	25	
Butyl Benzyl Phthalate		50000	55700	ug/L	0.575	11.3	25	
Carbazole		50000	49700	ug/L	0.967	0.698	25	
Chrysene		50000	54500	ug/L	1.29	9.03	25	
Dibenz[ah]anthracene		50000	49600	ug/L	1.23	0.750	25	
Dibenzofuran		50000	50500	ug/L	1.72	1.08	25	
Diethylphthalate		50000	51700	ug/L	1.46	3.47	25	
Dimethylphthalate		50000	51800	ug/L	1.38	3.51	25	
Di-n-Butyl Phthalate		50000	48600	ug/L	1.25	2.89	25	
Fluorene		50000	52300	ug/L	1.52	4.56	25	
Hexachlorobenzene		50000	49000	ug/L	0.259	1.91	25	
Hexachloroethane		50000	52400	ug/L	0.656	4.83	25	
Indeno[1,2,3-cd]pyrene		50000	53400	ug/L	1.42	6.75	25	
Isophorone		50000	52900	ug/L	0.784	5.89	25	
Naphthalene		50000	51000	ug/L	1.15	2.09	25	
Nitrobenzene		50000	54500	ug/L	0.530	9.06	25	
Phenanthrene		50000	48300	ug/L	1.11	3.40	25	
Pyrene		50000	55400	ug/L	1.43	10.9	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1100941
Report generated 05/22/2008 14:53

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290
Instrument ID: HPMS12
Workgroup (AAB#): WG271945

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	105623	248605	475757	353994	406408	500222
Upper Limit	NA	NA	211246	497210	951514	707988	812816	1000444
Lower Limit	NA	NA	52812	124303	237879	176997	203204	250111
L08050290-04	1.00	RE1	94972	195313	400970	315235	351251	369250
WG271710-01	1.00	01	133301	271140	546166	437327	500427	497415
WG271710-02	1.00	01	94386	197909	437846	334839	403462	369998
WG271710-03	1.00	01	98438	205665	439839	340357	394356	373521

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
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Report generated 05/22/2008 14:54

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290 ICAL CCV Number: WG270026-02
Instrument ID: HPMS4 CAL ID: HPMS4-01-MAY-08
Workgroup (AAB#): WG271546 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG270026-02	NA	NA	207840	476090	663378	823046	613487	810191
Upper Limit	NA	NA	415680	952180	1326756	1646092	1226974	1620382
Lower Limit	NA	NA	103920	238045	331689	411523	306744	405096
L08050290-01	1.00	01	242572	563628	895518	964752	866695	963240
L08050290-02	1.00	01	220324	506198	787878	874546	751016	865226
L08050290-03	1.00	01	228237	527130	827982	909736	795418	896889
L08050290-04	1.00	01	212704	479659	730661	846076	699099	820631
L08050290-05	1.00	01	238324	547914	869284	949099	838160	944506
L08050290-06	1.00	01	238168	552894	880798	945558	845948	954093
L08050290-07	1.00	01	201318	457853	694085	802333	660590	778012
WG271284-01	1.00	01	245200	569832	899122	979546	872486	980382
WG271284-02	1.00	01	236118	550467	872433	1024580	820908	950945
WG271284-03	1.00	01	218848	510536	796947	966997	738999	878058

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
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Report generated 05/22/2008 14:54

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290 ICAL CCV Number: WG269466-02

Instrument ID: HPMS12 CAL ID: HPMS12-25-APR-08

Workgroup (AAB#): WG271945 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	9.63	13.31	17.91	11.24	20.8	14.94
Upper Limit	NA	NA	10.13	13.81	18.41	11.74	21.3	15.44
Lower Limit	NA	NA	9.13	12.81	17.41	10.74	20.3	14.44
L08050290-04	1.00	RE1	9.599	13.275	17.858	11.202	20.7	14.899
WG271710-01	1.00	01	9.599	13.275	17.858	11.202	20.701	14.899
WG271710-02	1.00	01	9.599	13.275	17.858	11.202	20.7	14.899
WG271710-03	1.00	01	9.599	13.275	17.859	11.202	20.701	14.899

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
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Report generated: 05/22/2008 14:55

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050290 ICAL CCV Number: WG270026-02

Instrument ID: HPMS4 CAL ID: HPMS4-01-MAY-08

Workgroup (AAB#): WG271546 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG270026-02	NA	NA	7.72	11.09	15.44	9.19	17.63	12.65
Upper Limit	NA	NA	8.22	11.59	15.94	9.69	18.13	13.15
Lower Limit	NA	NA	7.22	10.59	14.94	8.69	17.13	12.15
L08050290-01	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-02	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-03	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-04	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-05	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-06	1.00	01	7.72	11.09	15.44	9.18	17.62	12.64
L08050290-07	1.00	01	7.72	11.09	15.46	9.18	17.65	12.64
WG271284-01	1.00	01	7.73	11.1	15.44	9.19	17.63	12.65
WG271284-02	1.00	01	7.73	11.1	15.45	9.19	17.63	12.65
WG271284-03	1.00	01	7.73	11.1	15.45	9.18	17.63	12.65

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
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2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271579 Analyst:JDH ADT(on):05/18/2008 14:52
Method:D2216-90 Instrument:BAL001 ADT(off):05/19/2008 08:46
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050290-01	1.29	24.09	21.71			89.56	
L08050290-02	1.3	32.3	26.49			81.26	
L08050290-03	1.27	17.13	14.98			86.44	
L08050290-04	1.28	22.06	18.65			83.59	
L08050290-05	1.28	18.62	15.9			84.31	
L08050290-06	1.28	17.83	14.36			79.03	
L08050290-07	1.28	19.76	17.42			87.34	
L08050295-01	1.28	26.86	22.96			84.75	
L08050295-02	1.28	26.86	22.96			84.75	
L08050295-03	1.28	26.86	22.96			84.75	
L08050295-04	1.28	26.86	22.96			84.75	
L08050295-05	1.29	27.76	23.61			84.32	
L08050309-02	1.3	15.48	3.68			16.78	
L08050309-04	1.29	17.41	8.02			41.75	
L08050319-01	1.29	22.41	19.22			84.90	
L08050319-02	1.29	18.81	16.57			87.21	
L08050319-03	1.28	19.08	16			82.70	
L08050319-04	1.28	16.36	15.06			91.38	
L08050319-05	1.29	18.28	14.85			79.81	
L08050319-06	1.28	26.71	23.51			87.42	
L08050321-03	1.3	27.02	21.69			79.28	
L08050321-05	1.28	34.95	27.94			79.18	
L08050321-07	1.29	28.58	23.07			79.81	
L08050321-09	1.3	26.23	21.63			81.55	
L08050321-11	1.31	19.99	16.23			79.87	
L08050321-13	1.31	21.47	17.74			81.50	
L08050321-15	1.32	38.36	29.88			77.11	
L08050322-01	1.29	18	14.25			77.56	
L08050322-02	1.3	16.92	10.77			60.63	
L08050322-03	1.29	25.63	19.43			74.53	
L08050333-01	1.29	19.29	17.19			88.33	
L08050333-02	1.3	21.68	19.9			91.27	
L08050333-03	1.31	20.32	17.43			84.80	
L08050333-04	1.29	21.26	16.01			73.71	
L08050333-05	1.29	22.6	17.57			76.40	
L08050333-06	1.29	22.01	17.54			78.43	
L08050333-07	1.3	34.41	23.15			65.99	
L08050333-08	1.28	26.42	20.88			77.96	
L08050333-09	1.28	20.66	16.71			79.62	
L08050333-10	1.28	20.66	16.71			79.62	
L08050333-11	1.28	20.66	16.71			79.62	
L08050333-12	1.27	20.28	17.74			86.64	
L08050333-13	1.28	23.26	19.1			81.07	

PERCENT_SOLIDS - Modified 04/24/2008
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Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271579 Analyst:JDH ADT(on):05/18/2008 14:52
Method:D2216-90 Instrument:BAL001 ADT(off):05/19/2008 08:46
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050334-01	1.28	42.13	33.73			79.44	
L08050370-01	1.28	29.97	24.39			80.55	
L08050376-01	1.28	43.66	38.33			87.42	
L08050376-02	1.29	27.77	25.5			91.43	
L08050376-03	1.29	41.94	36.4			86.37	
L08050376-04	1.29	23.27	20.15			85.81	
L08050380-01	1.28	25.46	20.75			80.52	
L08050380-02	1.28	24.91	20.76			82.44	
L08050380-03	1.28	16.19	13.33			80.82	
L08050380-04	1.28	30.29	22.29			72.42	
L08050380-05	1.29	21.3	16.99			78.46	
L08050380-06	1.28	17.76	13.44			73.79	
L08050380-07	1.29	22.95	19.03			81.90	
L08050380-08	1.28	22.04	16.13			71.53	
L08050380-09	1.29	23.27	19.42			82.48	
L08050380-10	1.28	18.22	15.08			81.46	
L08050380-11	1.29	26.03	21.4			81.29	
L08050380-12	1.29	18.8	15.69			82.24	
L08050380-13	1.29	15.11	12.64			82.13	
L08050380-14	1.3	20.07	16.61			81.57	
L08050380-15	1.29	20.62	17.07			81.63	
L08050380-16	1.27	25.29	20.69			80.85	
L08050380-17	1.29	23.55	19.43			81.49	
L08050380-18	1.28	19.24	15.94			81.63	
L08050380-19	1.28	26.41	21.86			81.89	
L08050380-20	1.28	28.27	22.11			77.18	
L08050380-21	1.29	24.92	20.66			81.97	
L08050382-01	1.28	23.73	20.74			86.68	
WG271579-01	1.28	42.13	33.73			79.44	20.56
WG271579-02	1.29	28.5	24.17			84.09	15.91
WG271579-03	1.29	18	14.25			77.56	22.44
WG271579-04	1.31	19.48	15.21			76.50	23.50
WG271579-05	1.3	16.92	10.77			60.63	39.37
WG271579-06	1.29	25.29	16.76			64.46	35.54

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1096114
Report generated: 05/19/2008 08:59

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
June 4, 2008

ADC – ANTHONY D. CANTER
AJF – AMANDA J. FICKIESEN
ALB – ANNIE L. BROWN
AM – ALISON J. MILLER
AML – ANTHONY M. LONG
ASP – AARON S. PETRIE
BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS
CAH – CHARLES A. HALL
CEB – CHAD E. BARNES
CLC – CHRYS L. CRAWFORD
CLW – CHARISSA L. WINTERS
CMS – CRYSTAL M. STEPHENS
CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL
CTB – CHRIS T. BUCINA
DDE – DEBRA D. ELLIOTT
DEL – DON E. LIGHTFRITZ
DEV – DAVID E. VANDENBERG
DGB – DOUGLAS G. BUTCHER
DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER
DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH
DR – DEANNA ROBERTS
DSF – DEBRA S. FREDERICK
ECL – ERIC C. LAWSON
ED – EMILY E. DECKER
ERE – ERIN R. ELDER
FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR
HJR – HOLLY J. REED
JBK – JEREMY B. KINNEY
JC – JOHN L. CONLEY
JDH – JUSTIN D. HESSON
JKP – JACQUELINE K. PARSONS
JKT – JANE K. THOMPSON
JWR – JOHN W. RICHARDS
JWS – JACK W. SHEAVES
JYH – JI Y. HU
KEB – KATHRYN E. BARNES
KHR – KIM H. RHODES
KJW – KATIE J. WIEFERICH
KRA – KATHY R. ALBERTSON
LKN – LINDA K. NEDEFF
LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON
MDC – MICHAEL D. COCHRAN
MES – MARY E. SCHILLING
MMB – MAREN M. BEERY
MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON
NPM – NATHANIEL P. MILLER
RAH – ROY A. HALSTEAD
RB – ROBERT BUCHANAN
REK – ROBERT E. KYER
RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL
SDH – SHANA D. HINYARD
SDL – SHELLY D. LENT
SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF
SMH – SHAUNA M. HYDE
TDH – TRICIA D. HUCK
TIP – TAE I. PARRISH
TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS
VC – VICKI COLLIER
WTD – WADE T. DELONG

Microbac Laboratories Inc.
List of Valid Qualifiers
June 04, 2008

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 82190

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Paul Weber | Contact Phone #: 919-875-4311

Turn Around Requirements: Standard | Location: TC

Project ID: TC Divestiture / PO# 728102

Sampler (print): Patrick Kish | Signature: [signature]

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC's	SVOC's	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
0135-S001-051308			5/13/08	1045	S			X	X		
0135-S002-051308				1055				X	X		
0134-S001-051308				1120				X	X		
0125-S001-051308				1320				X	X		
0126-S001-051308				1340				X	X		
0136-S001-051308				1405				X	X		
0136-S001-051308				1415				X	X		Log per bottles - 0136-S002
TB01-051408			5/14/08	0830	W			X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	5/14/08	0830			5-14-08	1000	[signature]
[signature]	5-14-08	1155	[signature]		5-14-08	1755	

Received for Laboratory by: (Signature) | Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page ___ of ___

Microbac Laboratories, Inc. **SAMPLE RECEIPT FORM**

158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	CHAM HILL
Workorder Number:	B 8152
Date Received:	5-14-08
Delivered by:	( ) Fedx ( ) UPS ( ) Client (X) Courier **Time:** 11.55
Opened by:	AR
IR Temp Gun:	(X) D ( ) G
Logged by:	BLK L 08050290

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
785	0		82190	Encores

Inspection Checklist	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓	✓		(1)
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)			✓	
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?	✓			
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

(1) ID's don't match, but all times are correct.

Distribution

Name of Microbac representative:	
Client/Company:	
Person Contacted:	
Date contacted:	

Resolution/other comments:

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-01	457948	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:55	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:55	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:55	RLK	MRT

Samplenum	Container ID	Products
L08050290-07	457968	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:09	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-01	457949	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-03	457954	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:45	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:45	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:45	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Samplenum	Container ID	Products
L08050290-05	457960	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-03	457955	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:45	TMB	ERE

Samplenum	Container ID	Products
L08050290-03	457956	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:09	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-07	457967	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

Samplenum	Container ID	Products
L08050290-04	457958	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-05	457962	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:09	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-07	457966	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:57	RLK	MRT

Samplenum	Container ID	Products
L08050290-01	457950	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:08	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-02	457952	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

Samplenum	Container ID	Products
L08050290-06	457963	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Samplenum	Container ID	Products
L08050290-08	457969	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	14-MAY-2008 15:09	RLK	
2	ANALYZ	V1	ORG4	15-MAY-2008 09:38	MRT	ERE
3	STORE	ORG4	A2	29-MAY-2008 09:59	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	14-MAY-2008 15:09	RLK	
2	ANALYZ	V1	ORG4	15-MAY-2008 09:38	MRT	ERE
3	STORE	ORG4	A2	29-MAY-2008 09:59	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-02	457953	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:08	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-04	457959	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:09	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	PREP	W1	EXT	20-MAY-2008 06:48	CEB	ERE
7	STORE	EXT	W1	20-MAY-2008 09:40	ERE	CEB
8	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-06	457964	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-06	457965	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	14-MAY-2008 15:09	RLK	
2	PREP	W1	EXT	15-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	15-MAY-2008 09:06	ERE	CEB
4	ANALYZ	W1	WET	16-MAY-2008 12:35	DIH	ERE
5	STORE	WET	W1	19-MAY-2008 07:48	ERE	DIH
6	STORE	W1	A2	28-MAY-2008 07:59	ERE	ERE

Samplenum	Container ID	Products
L08050290-02	457951	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:08	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050290
Account: 2736
Project: 2736.042
Samples: 8
Due Date: 28-MAY-2008

Samplenum	Container ID	Products
L08050290-04	457957	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE
3	STORE	VOAY	A2	29-MAY-2008 09:56	RLK	MRT

Samplenum	Container ID	Products
L08050290-05	457961	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	14-MAY-2008 15:09	RLK	
2	ANALYZ	L1	VOAY	14-MAY-2008 15:44	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Quick Facts

Microbac®

Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate –Wide: 18 Divisions, 28 locations across 15 states

Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.) , in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.

Microbac®

Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L08050376

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

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Annie Brown	*Client Services Specialist*	abrown@microbac.com
Katie Barnes	*Team Assistant*	kbarnes@microbac.com
Jacqueline Parsons	*Team Assistant*	jparsons@microbac.com

This report was reviewed on June 05, 2008.

Kathy Albertson

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on June 05, 2008.

David E. Vandenberg

David Vandenberg - Managing Director

Accrediting authority: Department of Environmental Protection (West Virginia) ID:037
This report contains a total of 153 pages.

Look closer. Go further. Do more.

Microbac REPORT L08050376
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08050376

CHAIN OF CUSTODY: The chain of custody number was 82107.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 4 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L08050376-01	0133-SO01-051508
L08050376-02	0132-SO01-051508
L08050376-03	0132-SO02-051508
L08050376-04	0129-SO01-051508
L08050376-05	TB01-051508

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 20-MAY-08

Kathy A. Henderson

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS VOLATILE ORGANICS

Microbac Login No: L08050376

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower control limit in the water alternate source analyzed 04/18/08 on HPMS-6. 1,4-Dioxane exceeded the upper control limit and vinyl acetate was below the lower control limit in the soil alternate source analyzed 05/12/08 on HPMS-9. 4-Methyl-2-pentanone and vinyl acetate were below the lower control limits in the water alternate source analyzed 05/24/08 on HPMS-6. All other acceptance criteria were met.

Continuing Calibration and Tune: Bromoform, bromomethane, and dibromochloromethane exceeded the upper control limits and vinyl acetate was below the lower control limit in the soil CCV analyzed 05/23/08 on HPMS-9. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Vinyl acetate was below the lower advisory limit in the soil LCS/LCSD analyzed 05/23/08 on HPMS-9. Vinyl acetate was below the lower advisory limit in the water LCS/LCSD analyzed 05/24/08 on HPMS-6. All other acceptance criteria were met.

Matrix Spike: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: CMS

Approved: 02-JUN-08

LABORATORY REPORT

L08050376

06/02/08 13:03

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0133-SO01-051508	L08050376-01	8260B	1	16-MAY-08
0132-SO01-051508	L08050376-02	8260B	1	16-MAY-08
0132-SO02-051508	L08050376-03	8260B	1	16-MAY-08
0129-SO01-051508	L08050376-04	8260B	1	16-MAY-08
TB01-051508	L08050376-05	8260B	1	16-MAY-08

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-01**
Client ID: **0133-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG272163**
Collect Date: **05/15/2008 11:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/23/2008 18:23**
Cal Date: **05/12/2008 18:39**
Run Date: **05/23/2008 18:23**
File ID: **9M62095**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.66	0.466
1,1,2,2-Tetrachloroethane	79-34-5		U	4.66	0.466
1,1,2-Trichloroethane	79-00-5		U	4.66	0.466
1,1-Dichloroethane	75-34-3		U	4.66	0.931
1,1-Dichloroethene	75-35-4		U	4.66	0.466
1,2,4-Trichlorobenzene	120-82-1		U	4.66	0.466
1,2-Dichlorobenzene	95-50-1		U	4.66	0.466
1,2-Dichloroethane	107-06-2		U	4.66	0.466
1,2-Dichloropropane	78-87-5		U	4.66	0.466
1,3-Dichlorobenzene	541-73-1		U	4.66	0.466
1,4-Dichlorobenzene	106-46-7		U	4.66	0.466
1,4-Dioxane	123-91-1		U	1580	46.6
2-Butanone	78-93-3		U	23.3	2.33
2-Hexanone	591-78-6		U	9.31	2.33
4-Methyl-2-pentanone	108-10-1		U	9.31	2.33
Acetone	67-64-1		U	93.1	4.66
Acrylonitrile	107-13-1		U	93.1	2.33
Benzene	71-43-2		U	4.66	0.466
Bromodichloromethane	75-27-4		U	4.66	0.466
Bromoform	75-25-2		U	4.66	0.466
Bromomethane	74-83-9		U	9.31	0.931
Carbon disulfide	75-15-0		U	4.66	0.466
Carbon tetrachloride	56-23-5		U	4.66	0.466
Chlorobenzene	108-90-7		U	4.66	0.466
Dibromochloromethane	124-48-1		U	4.66	0.466
Chloroethane	75-00-3		U	9.31	0.931
Chloroform	67-66-3		U	4.66	0.466
Chloromethane	74-87-3		U	9.31	1.86
cis-1,2-Dichloroethene	156-59-2		U	4.66	0.466
cis-1,3-Dichloropropene	10061-01-5		U	4.66	0.466
Ethylbenzene	100-41-4		U	4.66	0.466
Methylene chloride	75-09-2		U	4.66	0.931
Methyltert-butyl ether	1634-04-4		U	9.31	0.466
Styrene	100-42-5		U	4.66	0.466
Tetrachloroethene	127-18-4		U	4.66	0.466
Toluene	108-88-3		U	4.66	0.466
trans-1,2-Dichloroethene	156-60-5		U	4.66	0.466
trans-1,3-Dichloropropene	10061-02-6		U	4.66	0.466
Trichloroethene	79-01-6		U	4.66	0.466
Vinyl acetate	108-05-4		U	9.31	0.931
Vinyl chloride	75-01-4		U	9.31	0.931
Xylenes	1330-20-7		U	9.31	0.466

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	95.2	70	121	
4-Bromofluorobenzene	101	59	113	
Dibromofluoromethane	107	65	135	
Toluene-d8	102	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-02**
Client ID: **0132-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG272163**
Collect Date: **05/15/2008 13:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/23/2008 18:54**
Cal Date: **05/12/2008 18:39**
Run Date: **05/23/2008 18:54**
File ID: **9M62096**
Percent Solid: **91.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.23	0.423
1,1,2,2-Tetrachloroethane	79-34-5		U	4.23	0.423
1,1,2-Trichloroethane	79-00-5		U	4.23	0.423
1,1-Dichloroethane	75-34-3		U	4.23	0.847
1,1-Dichloroethene	75-35-4		U	4.23	0.423
1,2,4-Trichlorobenzene	120-82-1		U	4.23	0.423
1,2-Dichlorobenzene	95-50-1		U	4.23	0.423
1,2-Dichloroethane	107-06-2		U	4.23	0.423
1,2-Dichloropropane	78-87-5		U	4.23	0.423
1,3-Dichlorobenzene	541-73-1		U	4.23	0.423
1,4-Dichlorobenzene	106-46-7		U	4.23	0.423
1,4-Dioxane	123-91-1		U	1440	42.3
2-Butanone	78-93-3		U	21.2	2.12
2-Hexanone	591-78-6		U	8.47	2.12
4-Methyl-2-pentanone	108-10-1		U	8.47	2.12
Acetone	67-64-1		U	84.7	4.23
Acrylonitrile	107-13-1		U	84.7	2.12
Benzene	71-43-2		U	4.23	0.423
Bromodichloromethane	75-27-4		U	4.23	0.423
Bromoform	75-25-2		U	4.23	0.423
Bromomethane	74-83-9		U	8.47	0.847
Carbon disulfide	75-15-0		U	4.23	0.423
Carbon tetrachloride	56-23-5		U	4.23	0.423
Chlorobenzene	108-90-7		U	4.23	0.423
Dibromochloromethane	124-48-1		U	4.23	0.423
Chloroethane	75-00-3		U	8.47	0.847
Chloroform	67-66-3		U	4.23	0.423
Chloromethane	74-87-3		U	8.47	1.69
cis-1,2-Dichloroethene	156-59-2		U	4.23	0.423
cis-1,3-Dichloropropene	10061-01-5		U	4.23	0.423
Ethylbenzene	100-41-4		U	4.23	0.423
Methylene chloride	75-09-2		U	4.23	0.847
Methyltert-butyl ether	1634-04-4		U	8.47	0.423
Styrene	100-42-5		U	4.23	0.423
Tetrachloroethene	127-18-4		U	4.23	0.423
Toluene	108-88-3		U	4.23	0.423
trans-1,2-Dichloroethene	156-60-5		U	4.23	0.423
trans-1,3-Dichloropropene	10061-02-6		U	4.23	0.423
Trichloroethene	79-01-6		U	4.23	0.423
Vinyl acetate	108-05-4		U	8.47	0.847
Vinyl chloride	75-01-4		U	8.47	0.847
Xylenes	1330-20-7		U	8.47	0.423

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	100	70	121	
4-Bromofluorobenzene	96.9	59	113	
Dibromofluoromethane	110	65	135	
Toluene-d8	101	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-03**
Client ID: **0132-SO02-051508**
Matrix: **Soil**
Workgroup Number: **WG272163**
Collect Date: **05/15/2008 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/23/2008 19:25**
Cal Date: **05/12/2008 18:39**
Run Date: **05/23/2008 19:25**
File ID: **9M62097**
Percent Solid: **86.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.65	0.465
1,1,2,2-Tetrachloroethane	79-34-5		U	4.65	0.465
1,1,2-Trichloroethane	79-00-5		U	4.65	0.465
1,1-Dichloroethane	75-34-3		U	4.65	0.931
1,1-Dichloroethene	75-35-4		U	4.65	0.465
1,2,4-Trichlorobenzene	120-82-1		U	4.65	0.465
1,2-Dichlorobenzene	95-50-1		U	4.65	0.465
1,2-Dichloroethane	107-06-2		U	4.65	0.465
1,2-Dichloropropane	78-87-5		U	4.65	0.465
1,3-Dichlorobenzene	541-73-1		U	4.65	0.465
1,4-Dichlorobenzene	106-46-7		U	4.65	0.465
1,4-Dioxane	123-91-1		U	1580	46.5
2-Butanone	78-93-3		U	23.3	2.33
2-Hexanone	591-78-6		U	9.31	2.33
4-Methyl-2-pentanone	108-10-1		U	9.31	2.33
Acetone	67-64-1		U	93.1	4.65
Acrylonitrile	107-13-1		U	93.1	2.33
Benzene	71-43-2		U	4.65	0.465
Bromodichloromethane	75-27-4		U	4.65	0.465
Bromoform	75-25-2		U	4.65	0.465
Bromomethane	74-83-9		U	9.31	0.931
Carbon disulfide	75-15-0		U	4.65	0.465
Carbon tetrachloride	56-23-5		U	4.65	0.465
Chlorobenzene	108-90-7		U	4.65	0.465
Dibromochloromethane	124-48-1		U	4.65	0.465
Chloroethane	75-00-3		U	9.31	0.931
Chloroform	67-66-3		U	4.65	0.465
Chloromethane	74-87-3		U	9.31	1.86
cis-1,2-Dichloroethene	156-59-2		U	4.65	0.465
cis-1,3-Dichloropropene	10061-01-5		U	4.65	0.465
Ethylbenzene	100-41-4		U	4.65	0.465
Methylene chloride	75-09-2		U	4.65	0.931
Methyltert-butyl ether	1634-04-4		U	9.31	0.465
Styrene	100-42-5		U	4.65	0.465
Tetrachloroethene	127-18-4	5.31		4.65	0.465
Toluene	108-88-3		U	4.65	0.465
trans-1,2-Dichloroethene	156-60-5		U	4.65	0.465
trans-1,3-Dichloropropene	10061-02-6		U	4.65	0.465
Trichloroethene	79-01-6		U	4.65	0.465
Vinyl acetate	108-05-4		U	9.31	0.931
Vinyl chloride	75-01-4		U	9.31	0.931
Xylenes	1330-20-7		U	9.31	0.465

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.6	70	121	
4-Bromofluorobenzene	99.8	59	113	
Dibromofluoromethane	107	65	135	
Toluene-d8	102	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-04**
Client ID: **0129-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG272163**
Collect Date: **05/15/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/23/2008 19:56**
Cal Date: **05/12/2008 18:39**
Run Date: **05/23/2008 19:56**
File ID: **9M62098**
Percent Solid: **85.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.48	0.448
1,1,2,2-Tetrachloroethane	79-34-5		U	4.48	0.448
1,1,2-Trichloroethane	79-00-5		U	4.48	0.448
1,1-Dichloroethane	75-34-3		U	4.48	0.896
1,1-Dichloroethene	75-35-4		U	4.48	0.448
1,2,4-Trichlorobenzene	120-82-1		U	4.48	0.448
1,2-Dichlorobenzene	95-50-1		U	4.48	0.448
1,2-Dichloroethane	107-06-2		U	4.48	0.448
1,2-Dichloropropane	78-87-5		U	4.48	0.448
1,3-Dichlorobenzene	541-73-1		U	4.48	0.448
1,4-Dichlorobenzene	106-46-7		U	4.48	0.448
1,4-Dioxane	123-91-1		U	1520	44.8
2-Butanone	78-93-3		U	22.4	2.24
2-Hexanone	591-78-6		U	8.96	2.24
4-Methyl-2-pentanone	108-10-1		U	8.96	2.24
Acetone	67-64-1		U	89.6	4.48
Acrylonitrile	107-13-1		U	89.6	2.24
Benzene	71-43-2		U	4.48	0.448
Bromodichloromethane	75-27-4		U	4.48	0.448
Bromoform	75-25-2		U	4.48	0.448
Bromomethane	74-83-9		U	8.96	0.896
Carbon disulfide	75-15-0		U	4.48	0.448
Carbon tetrachloride	56-23-5		U	4.48	0.448
Chlorobenzene	108-90-7		U	4.48	0.448
Dibromochloromethane	124-48-1		U	4.48	0.448
Chloroethane	75-00-3		U	8.96	0.896
Chloroform	67-66-3		U	4.48	0.448
Chloromethane	74-87-3		U	8.96	1.79
cis-1,2-Dichloroethene	156-59-2		U	4.48	0.448
cis-1,3-Dichloropropene	10061-01-5		U	4.48	0.448
Ethylbenzene	100-41-4		U	4.48	0.448
Methylene chloride	75-09-2		U	4.48	0.896
Methyltert-butyl ether	1634-04-4		U	8.96	0.448
Styrene	100-42-5		U	4.48	0.448
Tetrachloroethene	127-18-4		U	4.48	0.448
Toluene	108-88-3		U	4.48	0.448
trans-1,2-Dichloroethene	156-60-5		U	4.48	0.448
trans-1,3-Dichloropropene	10061-02-6		U	4.48	0.448
Trichloroethene	79-01-6		U	4.48	0.448
Vinyl acetate	108-05-4		U	8.96	0.896
Vinyl chloride	75-01-4		U	8.96	0.896
Xylenes	1330-20-7		U	8.96	0.448

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	96.2	70	121	
4-Bromofluorobenzene	101	59	113	
Dibromofluoromethane	108	65	135	
Toluene-d8	102	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-05**
Client ID: **TB01-051508**
Matrix: **Water**
Workgroup Number: **WG272249**
Collect Date: **05/15/2008 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **05/24/2008 13:50**
Cal Date: **04/17/2008 17:34**
Run Date: **05/24/2008 13:50**
File ID: **6M75403**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	89.5	76	114	
4-Bromofluorobenzene	102	86	115	
Dibromofluoromethane	93.3	85	115	
Toluene-d8	107	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**
Dry weight correction:	
Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a\left(c - y\right)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: TMB/CMS Date Prepared/Preserved: 5/14/08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L08050192-08	A	5/7/07	NA	NA	NA	NA	5.48	5	NA	5	
-12							5.15				
-13							5.24				
-15	A						1.03				
-18							1.01				
L08050370-01	A	5-15-08	1436	1400	NA	NA	5.53	5	—	5	
	B						5.81	5	—		
	C						5.58	—	10		
Blank	A	NA	NA	NA			5.00	5	—		
	B							5	—		
	C							—	10		
L08050376-01	A	5-15-08	1135	before 1500	NA	NA	6.14	5	—	5	
-01	B						6.42		—		
-01	C						6.61	—	10		
-02	A		B10				6.46	5	—		
-02	B						6.33		—		
-02	C						6.30	—	10		
-03	A		1320				6.22	5	—		
-03	B						5.97		—		
-03	C						6.22	—	10		
-04	A		1340				6.50	5	—		
-04	B						6.24		—		
-04	C						6.45	—	10		
L08050289-01	A	5/13/08	0800	NA	31.068	37.54	6.472	5	—	5, 6	

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) B+J CV200

NaHSO4 (Manufacturer, Lot #) _____

Reviewed by: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041708
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 23802

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74324	WG268581-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/17/08 08:37
2	6M74325	WG268581-02 0.30ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:07
3	6M74326	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:41
4	6M74327	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:14
5	6M74328	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:47
6	6M74329	WG268581-06 5ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:22
7	6M74330	WG268581-07 20ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:55
8	6M74331	WG268581-08 50ug/L STD 8260	NA	1	1	STD25741	04/17/08 12:30
9	6M74332	WG268581-09 100ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:03
10	6M74333	WG268581-10 200ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:36
11	6M74334	WG268581-11 300ug/L STD 8260	NA	1	1	STD25741	04/17/08 14:09
12	6M74335	SYSTEM BLANK	NA	1	1		04/17/08 14:49
13	6M74336	SYSTEM BLANK	NA	1	1		04/17/08 15:22
14	6M74337	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 15:55
15	6M74338	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 16:28
16	6M74339	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:01
17	6M74340	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:34
18	6M74341	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/17/08 18:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X			
File ID: 6M74326				
	DNR			
4	X			
File ID: 6M74327				
	DNR			
5	X			
File ID: 6M74328				
	DNR			
18	X			
File ID: 6M74341				
	DNR			

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74343	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:29
2	6M74344	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:46
3	6M74345	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:14
4	6M74346	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:41
5	6M74347	WG268744-02 50ug/L STD 8260	NA	1	1	STD25741	04/18/08 12:10
6	6M74348	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 12:49
7	6M74349	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 13:22
8	6M74350	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/18/08 13:55
9	6M74351	WG268745-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/18/08 14:28
10	6M74352	WG268745-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25665	04/18/08 15:01
11	6M74353	L08040217-08 A 8260	<2	1	1		04/18/08 15:35
12	6M74354	L08040217-06 A 8260	<2	1	1		04/18/08 16:08
13	6M74355	L08040222-05 A 8260	<2	1	1		04/18/08 16:41
14	6M74356	L08040217-01 A 50X 8260	<2	1	50		04/18/08 17:14
15	6M74357	L08040217-03 A 50X 8260	<2	1	50		04/18/08 17:47
16	6M74358	L08040217-04 A 50X 8260	<2	1	50		04/18/08 18:21
17	6M74359	L08040217-05 A 50X 8260	<2	1	50		04/18/08 18:54
18	6M74360	L08040217-07 A 50X 8260	<2	1	50		04/18/08 19:27
19	6M74361	L08040222-01 A 50X 8260	<2	1	50		04/18/08 20:00
20	6M74362	L08040222-02 A 50X 8260	7	1	50		04/18/08 20:33
21	6M74363	L08040222-03 A 50X 8260	<2	1	50		04/18/08 21:07
22	6M74364	L08040222-04 A 50X 8260	<2	1	50		04/18/08 21:40
23	6M74365	L08040222-06 A 50X 8260	<2	1	50		04/18/08 22:13
24	6M74366	L08040222-08 A 50X 8260	<2	1	50		04/18/08 22:46
25	6M74367	L08040222-10 A 50X 8260	<2	1	50		04/18/08 23:20
26	6M74368	SYSTEM CHECK	NA	1	1		04/18/08 23:53
27	6M74369	SYSTEM CHECK	NA	1	1		04/19/08 00:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 6M74344				
	Replaced septa.			

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 6M74345				
Calibrated mass axis and peak width.				
6	X			
File ID: 6M74348				
14	X	1	Analyzed too dilute	
File ID: 6M74356				
15	X	1	Analyzed too dilute	
File ID: 6M74357				
16	X	1	Analyzed too dilute	
File ID: 6M74358				
17	X	1	Analyzed too dilute	
File ID: 6M74359				
19	X	1	Analyzed too dilute	
File ID: 6M74361				
20	X	1	Analyzed too dilute	
File ID: 6M74362				
21	X	1	Analyzed too dilute	
File ID: 6M74363				
22	X	1	Analyzed too dilute	
File ID: 6M74364				
23	X	1	Analyzed too dilute	
File ID: 6M74365				
24	X	1	Analyzed too dilute	
File ID: 6M74366				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
25	X	1	Analyzed too dilute	
File ID: 6M74367				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61788	system blank	NA	7	1		05/12/08 07:18
2	9M61789	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:17
3	9M61790	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:37
4	9M61792	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 09:35
5	9M61793	WG270933-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26262	05/12/08 10:06
6	9M61794	SYSTEM CHECK	NA	7	1		05/12/08 10:40
7	9M61795	WG270933-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/12/08 11:07
8	9M61797	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 12:03
9	9M61798	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 12:43
10	9M61799	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 13:24
11	9M61800	SYSTEM BLANK	NA	7	1		05/12/08 13:59
12	9M61801	WG270933-03 0.5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 14:31
13	9M61802	WG270933-04 1ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:03
14	9M61803	WG270933-05 2ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:34
15	9M61804	WG270933-06 5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:05
16	9M61805	WG270933-07 20ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:36
17	9M61806	WG270933-08 50ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:06
18	9M61807	WG270933-09 100ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:37
19	9M61808	WG270933-10 200ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:08
20	9M61809	WG270933-11 300ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:39
21	9M61810	SYSTEM BLANK	NA	7	1		05/12/08 19:10
22	9M61811	SYSTEM BLANK	NA	7	1		05/12/08 19:41
23	9M61812	WG270933-12 20ug/Kg ALT SRC STD 826	NA	7	1	STD26314	05/12/08 20:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M61797				
	DNR.			
9				
File ID: 9M61798				
	DNR.			
10				

Approved: May 16, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61799				
	DNR. Had to run a curve.			
11				
File ID: 9M61800				
	DNR.			

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052308
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24298

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26505 LCS: STD26340 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272163

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M62077	WG272162-01 50ng BFB STD 8260	NA	7	1	STD26149	05/23/08 08:52
2	9M62078	WG272162-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26505	05/23/08 09:26
3	9M62079	WG272163-01 VBLK0523 BLANK 8260	NA	7	1		05/23/08 09:58
4	9M62080	WG272163-02 20ug/Kg LCS STD 8260	NA	7	1	STD26340	05/23/08 10:29
5	9M62081	WG272163-03 20ug/Kg LCSDUP STD 826	NA	7	1	STD26340	05/23/08 11:00
6	9M62082	L08050497-05 826-BETX	NA	7	1		05/23/08 11:38
7	9M62083	L08050319-05 00 8260A	NA	7	1		05/23/08 12:09
8	9M62084	L08050380-12 A 826-SPE	NA	7	1		05/23/08 12:40
9	9M62085	L08050380-13 A 826-SPE	NA	7	1		05/23/08 13:11
10	9M62086	L08050380-14 A 826-SPE	NA	7	1		05/23/08 13:42
11	9M62087	L08050380-15 A 826-SPE	NA	7	1		05/23/08 14:13
12	9M62088	L08050380-16 A 826-SPE	NA	7	1		05/23/08 14:44
13	9M62089	L08050380-17 A 826-SPE	NA	7	1		05/23/08 15:15
14	9M62090	L08050380-18 A 826-SPE	NA	7	1		05/23/08 15:46
15	9M62091	L08050380-19 A 826-SPE	NA	7	1		05/23/08 16:17
16	9M62092	L08050380-20 A 826-SPE	NA	7	1		05/23/08 16:49
17	9M62093	L08050380-21 A 826-SPE	NA	7	1		05/23/08 17:21
18	9M62094	L08050334-01 A 826-SPE1	NA	7	1		05/23/08 17:52
19	9M62095	L08050376-01 A 826-SPE	NA	7	1		05/23/08 18:23
20	9M62096	L08050376-02 A 826-SPE	NA	7	1		05/23/08 18:54
21	9M62097	L08050376-03 A 826-SPE	NA	7	1		05/23/08 19:25
22	9M62098	L08050376-04 A 826-SPE	NA	7	1		05/23/08 19:56
23	9M62099	L08050416-04 826-SPE	NA	7	1		05/23/08 20:28
24	9M62100	SYSTEM BLANK	NA	7	1		05/23/08 20:59
25	9M62101	SYSTEM BLANK	NA	7	1		05/23/08 21:30
26	9M62102	L08050167-06 A 826-REF-BLK	NA	7	1		05/23/08 22:02
27	9M62103	L08050167-07 A 826-REF-BLK	NA	7	1		05/23/08 22:33
28	9M62104	L08050167-08 A 826-REF-BLK	NA	7	1		05/23/08 23:04

Comments

Seq.	Rerun	Dil.	Reason	Analytes
27	X	1		ace
File ID: 9M62103				

Approved: May 27, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS9	Dataset:	052308		
Analyst1:	CMS	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	10
Method:	5030B/5035	SOP:	PAT01	Rev:	10

Maintenance Log ID: 24298

Internal Standard:	STD26151	Surrogate Standard:	STD26329		
CCV:	STD26505	LCS:	STD26340	MS/MSD:	NA

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG272163

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Ace was over the RL.

Approved: May 27, 2008

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052408
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24316

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505;STD26599 LCS: STD26340;STD26600 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272249

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M75395	WG272248-01 BFB 50ng STD 8260	NA	1	1	STD26149	05/24/08 09:32
2	6M75396	WG272248-02 50ug/L STD 8260	NA	1	1	STD26505	05/24/08 09:58
3	6M75397	WG272250-01 100ug/L A9FOO STD 8260	NA	1	1	STD26599	05/24/08 10:32
4	6M75398	WG272249-01 VBLK0524 BLANK 8260	NA	1	1		05/24/08 11:05
5	6M75399	WG272249-02 20ug/L LCS STD 8260	NA	1	1	STD26340	05/24/08 11:38
6	6M75400	WG272249-03 20ug/L LCSDUP STD 8260	NA	1	1	STD26340	05/24/08 12:11
7	6M75401	WG272249-04 100ug/L A9FOO LCS STD 82	NA	1	1	STD26600	05/24/08 12:45
8	6M75402	WG272249-05 100ug/L A9FOO LCSDUP ST	NA	1	1	STD26600	05/24/08 13:17
9	6M75403	L08050376-05 A 826-SPE	<2	1	1		05/24/08 13:50
10	6M75404	L08050391-23 A 826-SPE	<2	1	1		05/24/08 14:24
11	6M75405	L08050391-16 B 826-SPE	<2	1	1		05/24/08 14:57
12	6M75406	L08050391-17 B 826-SPE	<2	1	1		05/24/08 15:30
13	6M75407	L08050391-07 B 826-SPE	<2	1	1		05/24/08 16:03
14	6M75408	L08050293-01 A 826-SPE1	<2	1	1		05/24/08 16:36
15	6M75409	L08050293-03 A 826-SPE1	<2	1	1		05/24/08 17:09
16	6M75410	L08050293-05 A 250X 826-SPE1	<2	1	250		05/24/08 17:42
17	6M75411	L08050293-07 A 50X 826-SPE1	<2	1	50		05/24/08 18:14
18	6M75412	L08050391-22 A 826-SPE	<2	1	1		05/24/08 18:47
19	6M75413	L08050391-13 A 826-SPE	<2	1	1		05/24/08 19:20
20	6M75414	L08050391-15 A 826-SPE	<2	1	1		05/24/08 19:54
21	6M75415	L08050387-05 A 10X 826-SPE	=7	1	10		05/24/08 20:27
22	6M75416	L08050391-11 A 10X 826-SPE	<2	1	10		05/24/08 21:00
23	6M75417	SYSTEM BLANK	NA	1	1		05/24/08 21:32
24	6M75418	SYSTEM BLANK	NA	1	1		05/24/08 22:05
25	6M75419	SYSTEM BLANK	NA	1	1		05/24/08 22:38
26	6M75420	SYSTEM BLANK	NA	1	1		05/24/08 23:11
27	6M75421	SYSTEM CHECK	NA	1	1		05/24/08 23:44
28	6M75422	SYSTEM CHECK	NA	1	1		05/25/08 00:18

Comments

Seq.	Rerun	Dil.	Reason	Analytes
18	X	10	Over Calibration Range	cis12dce
File ID: 6M75412				

Approved: May 27, 2008

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052408
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24316

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505;STD26599 LCS: STD26340;STD26600 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272249

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
21	X	5	Analyzed too dilute	
File ID: 6M75415				
	DNR			
22	X	500	Over Calibration Range	cis12dce, tce, IS conf
File ID: 6M75416				

Approved: May 27, 2008

Page: 2

Microbac Laboratories Inc.

Data Checklist

Date: 17-APR-2008
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21761
Analytical Workgroups: WG268581

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
22-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:57:54

Microbac Laboratories Inc.

Data Checklist

Date: 18-APR-2008
Analyst: ASP
Analyst: CMS
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21767
Analytical Workgroups: WG268745

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:58:36

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22226
Analytical Workgroups: WG270933

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 13:40:10

Microbac Laboratories Inc.

Data Checklist

Date: 23-MAY-2008
Analyst: CMS
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22370
Analytical Workgroups: WG272163

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-MAY-2008
Tiffany Bailey

Secondary Reviewer:
27-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-27-2008 13:20:08

Microbac Laboratories Inc.

Data Checklist

Date: 24-MAY-2008
Analyst: CMS
Analyst: NA
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 22394
Analytical Workgroups: WG272249

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-MAY-2008

Secondary Reviewer:
27-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-27-2008 15:18:36

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG272249

Login Number: L08050376

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TB01-051508	05/15/08	05/16/08	05/24/08	14	9.58	05/24/08	14	9.58	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104253
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG272163

Login Number: L08050376

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0129-SO01-051508	05/15/08	05/16/08	05/23/08	14	8.26	05/23/08	14	8.26	
0132-SO02-051508	05/15/08	05/16/08	05/23/08	14	8.25	05/23/08	14	8.25	
0132-SO01-051508	05/15/08	05/16/08	05/23/08	14	8.24	05/23/08	14	8.24	
0133-SO01-051508	05/15/08	05/16/08	05/23/08	14	8.28	05/23/08	14	8.28	

* EXT = SEE PROJECT QAPP REQUIREMENTS
*ANAL = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104253
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050376
Instrument Id: HPMS6
Workgroup (AAB#): WG272249

Method: 8260
CAL ID: HPMS6-17-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08050376-05	1.00	01	89.5	93.3	102	107
WG272249-01	1.00	01	88.3	93.1	103	106
WG272249-02	1.00	01	92.6	95.3	101	107
WG272249-03	1.00	01	90.9	95.5	102	106
WG272249-04	1.00	02	89.2	95.2	103	107
WG272249-05	1.00	02	89.3	94.0	104	107

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104259
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050376
Instrument Id: HPMS9
Workgroup (AAB#): WG272163

Method: 8260
CAL ID: HPMS9-12-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050376-01	1.00	01	95.2	107	101	102
L08050376-02	1.00	01	100	110	96.9	101
L08050376-03	1.00	01	96.6	107	99.8	102
L08050376-04	1.00	01	96.2	108	101	102
WG272163-01	1.00	01	88.8	102	92.7	93.7
WG272163-02	1.00	01	90.9	103	95.7	100
WG272163-03	1.00	01	91.4	105	95.1	99.9

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104259
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050376
Work Group: WG272249
Blank File ID: 6M75398
Blank Sample ID: WG272249-01
Prep Date: 05/24/08 11:05
Instrument ID: HPMS6
Analyzed Date: 05/24/08 11:05
Method: 8260B
Analyst: CMS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG272249-02	6M75399	05/24/08 11:38	01
LCS2	WG272249-03	6M75400	05/24/08 12:11	01
LCS	WG272249-04	6M75401	05/24/08 12:45	02
LCS2	WG272249-05	6M75402	05/24/08 13:17	02
TB01-051508	L08050376-05	6M75403	05/24/08 13:50	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104254
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050376
Work Group: WG272163
Blank File ID: 9M62079
Blank Sample ID: WG272163-01
Prep Date: 05/23/08 09:58
Instrument ID: HPMS9
Analyzed Date: 05/23/08 09:58
Method: 8260B
Analyst: CMS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG272163-02	9M62080	05/23/08 10:29	01
LCS2	WG272163-03	9M62081	05/23/08 11:00	01
0133-SO01-051508	L08050376-01	9M62095	05/23/08 18:23	01
0132-SO01-051508	L08050376-02	9M62096	05/23/08 18:54	01
0132-SO02-051508	L08050376-03	9M62097	05/23/08 19:25	01
0129-SO01-051508	L08050376-04	9M62098	05/23/08 19:56	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104254
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050376 Prep Date: 05/24/08 11:05 Sample ID: WG272249-01
Instrument ID: HPMS6 Run Date: 05/24/08 11:05 Prep Method: 5030B
File ID: 6M75398 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272249 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

Report Name:BLANK
PDF ID: 1104255
28-MAY-2008 09:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050376 Prep Date: 05/24/08 11:05 Sample ID: WG272249-01
Instrument ID: HPMS6 Run Date: 05/24/08 11:05 Prep Method: 5030B
File ID: 6M75398 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272249 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	88.3	76 - 114	PASS
4-Bromofluorobenzene	103	86 - 115	PASS
Dibromofluoromethane	93.1	85 - 115	PASS
Toluene-d8	106	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1104255
28-MAY-2008 09:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050376 Prep Date:05/23/08 09:58 Sample ID:WG272163-01
Instrument ID:HPMS9 Run Date:05/23/08 09:58 Prep Method:5030B
File ID:9M62079 Analyst:CMS Method:8260B
Workgroup (AAB#):WG272163 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
PDF ID: 1104255
28-MAY-2008 09:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050376 Prep Date: 05/23/08 09:58 Sample ID: WG272163-01
Instrument ID: HPMS9 Run Date: 05/23/08 09:58 Prep Method: 5030B
File ID: 9M62079 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272163 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	88.8	70 - 121	PASS
4-Bromofluorobenzene	92.7	59 - 113	PASS
Dibromofluoromethane	102	65 - 135	PASS
Toluene-d8	93.7	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1104255
28-MAY-2008 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG272163 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272163-02 LCS File ID: 9M62080 Run Date: 05/23/2008 10:29
Sample ID: WG272163-03 LCS2 File ID: 9M62081 Run Date: 05/23/2008 11:00

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	21.9	110	20.0	21.6	108	1.38	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	18.8	94.0	20.0	19.0	94.9	0.949	59 - 140	30	
1,1,2-Trichloroethane	20.0	21.2	106	20.0	21.3	107	0.556	62 - 127	30	
1,1-Dichloroethane	20.0	18.7	93.5	20.0	18.9	94.4	0.931	73 - 125	30	
1,1-Dichloroethene	20.0	19.4	96.8	20.0	19.3	96.4	0.412	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	22.4	112	20.0	22.5	112	0.305	65 - 131	30	
1,2-Dichlorobenzene	20.0	20.9	104	20.0	21.0	105	0.673	74 - 120	30	
1,2-Dichloroethane	20.0	18.9	94.5	20.0	18.5	92.4	2.23	72 - 137	30	
1,2-Dichloropropane	20.0	19.1	95.7	20.0	19.6	98.1	2.54	71 - 120	30	
1,3-Dichlorobenzene	20.0	21.0	105	20.0	20.6	103	2.24	72 - 124	30	
1,4-Dichlorobenzene	20.0	19.7	98.7	20.0	19.7	98.3	0.427	72 - 125	30	
1,4-Dioxane	200	197	98.6	200	218	109	10.2	50 - 150	30	
2-Butanone	20.0	19.5	97.3	20.0	20.2	101	3.57	40 - 135	30	
2-Hexanone	20.0	17.0	85.2	20.0	18.4	91.8	7.49	50 - 140	30	
4-Methyl-2-pentanone	20.0	19.5	97.6	20.0	20.5	102	4.71	50 - 140	30	
Acetone	20.0	17.6	88.0	20.0	17.3	86.4	1.81	40 - 141	30	
Acrylonitrile	20.0	18.8	94.1	20.0	19.5	97.4	3.52	60 - 140	30	
Benzene	20.0	20.5	102	20.0	20.4	102	0.396	73 - 126	30	
Bromodichloromethane	20.0	21.5	107	20.0	21.3	106	0.988	72 - 128	30	
Bromoform	20.0	22.9	114	20.0	22.9	114	0.0073	60 - 137	30	
Bromomethane	20.0	25.3	126	20.0	24.7	124	2.11	45 - 141	30	
Carbon disulfide	20.0	16.4	82.2	20.0	16.7	83.3	1.27	65 - 135	30	
Carbon tetrachloride	20.0	23.6	118	20.0	23.3	116	1.46	67 - 133	30	
Chlorobenzene	20.0	20.6	103	20.0	20.6	103	0.0137	75 - 123	30	
Dibromochloromethane	20.0	22.7	113	20.0	21.9	110	3.25	66 - 130	30	
Chloroethane	20.0	19.8	98.9	20.0	21.0	105	6.02	41 - 141	30	
Chloroform	20.0	20.1	100	20.0	20.2	101	0.758	72 - 124	30	
Chloromethane	20.0	18.4	92.0	20.0	18.5	92.7	0.780	51 - 129	30	
cis-1,2-Dichloroethene	20.0	21.8	109	20.0	21.9	110	0.397	67 - 125	30	
cis-1,3-Dichloropropene	20.0	20.0	100	20.0	19.9	99.3	0.769	72 - 126	30	
Ethylbenzene	20.0	21.9	110	20.0	21.3	106	3.08	74 - 127	30	
Methylene chloride	20.0	18.5	92.4	20.0	19.0	94.8	2.58	63 - 137	30	
Methyltert-butyl ether	20.0	21.6	108	20.0	22.0	110	1.52	50 - 135	30	
Styrene	20.0	19.7	98.4	20.0	19.8	99.1	0.784	74 - 128	30	
Tetrachloroethene	20.0	22.7	114	20.0	22.5	113	0.999	67 - 139	30	
Toluene	20.0	20.9	104	20.0	20.8	104	0.363	71 - 127	30	
trans-1,2-Dichloroethene	20.0	21.3	106	20.0	21.3	107	0.349	66 - 134	30	
trans-1,3-Dichloropropene	20.0	18.5	92.6	20.0	18.5	92.5	0.0449	65 - 127	30	
Trichloroethene	20.0	22.7	114	20.0	22.7	114	0.112	77 - 124	30	
Vinyl acetate	20.0	8.29	41.4	20.0	8.08	40.4	2.56	55 - 130	30	*

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103306
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG272163 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272163-02 LCS File ID: 9M62080 Run Date: 05/23/2008 10:29
Sample ID: WG272163-03 LCS2 File ID: 9M62081 Run Date: 05/23/2008 11:00

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	22.1	111	20.0	22.3	112	1.09	58 - 126	30	
Xylenes	60.0	63.6	106	60.0	64.0	107	0.680	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	103	105	65 - 135	PASS
1,2-Dichloroethane-d4	90.9	91.4	70 - 121	PASS
Toluene-d8	100	99.9	86 - 138	PASS
4-Bromofluorobenzene	95.7	95.1	59 - 113	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103306
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG272249 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272249-02 LCS File ID: 6M75399 Run Date: 05/24/2008 11:38
Sample ID: WG272249-03 LCS2 File ID: 6M75400 Run Date: 05/24/2008 12:11

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	20.0	100	20.0	20.5	103	2.55	67 - 132	20	
1,1,2,2-Tetrachloroethane	20.0	21.2	106	20.0	21.5	108	1.69	63 - 128	20	
1,1,2-Trichloroethane	20.0	21.5	108	20.0	21.5	107	0.0554	70 - 125	20	
1,1-Dichloroethane	20.0	21.6	108	20.0	22.4	112	3.63	67 - 133	20	
1,1-Dichloroethene	20.0	20.7	103	20.0	21.4	107	3.19	68 - 130	20	
1,2,4-Trichlorobenzene	20.0	22.6	113	20.0	23.1	116	2.49	65 - 134	20	
1,2-Dichlorobenzene	20.0	22.3	111	20.0	22.4	112	0.396	71 - 122	20	
1,2-Dichloroethane	20.0	20.3	101	20.0	20.5	102	0.942	69 - 132	20	
1,2-Dichloropropane	20.0	21.1	106	20.0	21.5	107	1.73	75 - 125	20	
1,3-Dichlorobenzene	20.0	22.0	110	20.0	22.1	110	0.357	75 - 124	20	
1,4-Dichlorobenzene	20.0	21.1	105	20.0	21.4	107	1.51	74 - 123	20	
1,4-Dioxane	200	164	82.1	200	175	87.5	6.30	70 - 130	20	
2-Butanone	20.0	20.2	101	20.0	21.2	106	4.89	49 - 136	20	
2-Hexanone	20.0	18.2	91.2	20.0	18.5	92.6	1.46	65 - 135	20	
4-Methyl-2-pentanone	20.0	21.3	106	20.0	21.7	108	1.72	58 - 134	20	
Acetone	20.0	20.3	101	20.0	20.5	102	0.873	30 - 135	20	
Acrylonitrile	20.0	21.3	107	20.0	22.3	111	4.32	60 - 135	20	
Benzene	20.0	21.8	109	20.0	22.6	113	3.28	81 - 122	20	
Bromodichloromethane	20.0	22.5	112	20.0	23.0	115	2.22	76 - 121	20	
Bromoform	20.0	18.7	93.4	20.0	19.0	94.8	1.54	69 - 128	20	
Bromomethane	20.0	26.0	130	20.0	27.3	136	4.61	53 - 141	20	
Carbon disulfide	20.0	18.6	93.2	20.0	19.7	98.3	5.39	70 - 130	20	
Carbon tetrachloride	20.0	20.2	101	20.0	20.9	104	3.05	66 - 138	20	
Chlorobenzene	20.0	21.1	105	20.0	21.6	108	2.42	81 - 122	20	
Dibromochloromethane	20.0	19.3	96.5	20.0	19.6	98.2	1.72	66 - 133	20	
Chloroethane	20.0	18.7	93.4	20.0	19.3	96.6	3.41	58 - 133	20	
Chloroform	20.0	21.7	109	20.0	22.2	111	2.03	69 - 128	20	
Chloromethane	20.0	20.4	102	20.0	21.4	107	4.98	56 - 131	20	
cis-1,2-Dichloroethene	20.0	23.8	119	20.0	24.7	123	3.87	72 - 126	20	
cis-1,3-Dichloropropene	20.0	19.3	96.6	20.0	20.0	100	3.51	69 - 131	20	
Ethylbenzene	20.0	23.3	117	20.0	23.6	118	1.10	73 - 127	20	
Methylene chloride	20.0	20.1	100	20.0	20.8	104	3.56	63 - 137	20	
Methyltert-butyl ether	20.0	22.0	110	20.0	22.7	113	2.98	65 - 123	20	
Styrene	20.0	20.0	100	20.0	20.3	102	1.64	65 - 134	20	
Tetrachloroethene	20.0	23.6	118	20.0	24.5	122	3.88	66 - 128	20	
Toluene	20.0	23.2	116	20.0	23.8	119	2.24	77 - 122	20	
trans-1,2-Dichloroethene	20.0	20.5	102	20.0	21.5	108	4.89	63 - 137	20	
trans-1,3-Dichloropropene	20.0	19.2	96.2	20.0	19.2	95.8	0.350	59 - 135	20	
Trichloroethene	20.0	20.6	103	20.0	21.2	106	2.85	70 - 127	20	
Vinyl acetate	20.0	8.82	44.1	20.0	9.08	45.4	2.94	65 - 130	20	*

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103306
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG272249 Units: ug/L
QC Key: DOWWV2006 Lot #: STD26340

Sample ID: WG272249-02 LCS File ID: 6M75399 Run Date: 05/24/2008 11:38
Sample ID: WG272249-03 LCS2 File ID: 6M75400 Run Date: 05/24/2008 12:11

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	22.8	114	20.0	23.7	118	3.84	50 - 134	20	
Xylenes	60.0	66.9	111	60.0	68.3	114	2.15	75 - 120	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	95.3	95.5	85 - 115	PASS
1,2-Dichloroethane-d4	92.6	90.9	76 - 114	PASS
Toluene-d8	107	106	88 - 110	PASS
4-Bromofluorobenzene	101	102	86 - 115	PASS

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1103306
Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050376
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268581

Tune ID: WG268581-01
Run Date: 04/17/2008
Run Time: 08:37
File ID: 6M74324
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.7	5835	PASS
75.0	95.0	30.0	60.0	54.3	12819	PASS
95.0	95.0	100	100	100	23626	PASS
96.0	95.0	5.00	9.00	6.76	1597	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	65.0	15368	PASS
175	174	5.00	9.00	6.51	1001	PASS
176	174	95.0	101	99.4	15270	PASS
177	176	5.00	9.00	6.11	933	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-02	STD	01	04/17/2008 09:07	
WG268581-06	STD	01	04/17/2008 11:22	
WG268581-07	STD	01	04/17/2008 11:55	
WG268581-08	STD-CCV	01	04/17/2008 12:30	
WG268581-09	STD	01	04/17/2008 13:03	
WG268581-10	STD	01	04/17/2008 13:36	
WG268581-11	STD	01	04/17/2008 14:09	
WG268581-05	STD	01	04/17/2008 16:28	
WG268581-04	STD	01	04/17/2008 17:01	
WG268581-03	STD	01	04/17/2008 17:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104257
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050376
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268744

Tune ID: WG268744-01
Run Date: 04/18/2008
Run Time: 11:41
File ID: 6M74346
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.1	6222	PASS
75.0	95.0	30.0	60.0	54.1	14553	PASS
95.0	95.0	100	100	100	26922	PASS
96.0	95.0	5.00	9.00	6.39	1719	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	61.5	16556	PASS
175	174	5.00	9.00	7.12	1179	PASS
176	174	95.0	101	98.6	16324	PASS
177	176	5.00	9.00	5.68	927	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-12	SSCV	01	04/18/2008 13:55	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104257
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050376
Instrument: HPMS6
Analyst: CMS
Workgroup: WG272248

Tune ID: WG272248-01
Run Date: 05/24/2008
Run Time: 09:32
File ID: 6M75395
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.5	8382	PASS
75.0	95.0	30.0	60.0	52.0	18557	PASS
95.0	95.0	100	100	100	35666	PASS
96.0	95.0	5.00	9.00	6.59	2349	PASS
173	174	0	2.00	0.720	166	PASS
174	95.0	50.0	100	64.6	23056	PASS
175	174	5.00	9.00	7.78	1794	PASS
176	174	95.0	101	96.1	22146	PASS
177	176	5.00	9.00	6.48	1435	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272248-02	CCV	01	05/24/2008 09:58	
WG272249-01	BLANK	01	05/24/2008 11:05	
WG272249-02	LCS	01	05/24/2008 11:38	
WG272249-03	LCS2	01	05/24/2008 12:11	
WG272249-04	LCS	02	05/24/2008 12:45	
WG272249-05	LCS2	02	05/24/2008 13:17	
L08050376-05	TB01-051508	01	05/24/2008 13:50	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104257
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050376
Instrument: HPMS9
Analyst: TMB
Workgroup: WG270933

Tune ID: WG270933-01
Run Date: 05/12/2008
Run Time: 11:07
File ID: 9M61795
Cal ID: HPMS9-02-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.0	3552	PASS
75.0	95.0	30.0	60.0	54.5	8072	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.47	959	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	60.9	9034	PASS
175	174	5.00	9.00	8.38	757	PASS
176	174	95.0	101	95.6	8636	PASS
177	176	5.00	9.00	5.69	491	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270933-03	STD-S	01	05/12/2008 14:31	
WG270933-04	STD-S	01	05/12/2008 15:03	
WG270933-05	STD-S	01	05/12/2008 15:34	
WG270933-06	STD-S	01	05/12/2008 16:05	
WG270933-07	STD-S	01	05/12/2008 16:36	
WG270933-08	STD-CCV-S	01	05/12/2008 17:06	
WG270933-09	STD-S	01	05/12/2008 17:37	
WG270933-10	STD-S	01	05/12/2008 18:08	
WG270933-11	STD-S	01	05/12/2008 18:39	
WG270933-12	SSCV-S	01	05/12/2008 20:12	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104257
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050376
Instrument: HPMS9
Analyst: CMS
Workgroup: WG272162

Tune ID: WG272162-01
Run Date: 05/23/2008
Run Time: 08:52
File ID: 9M62077
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.9	1744	PASS
75.0	95.0	30.0	60.0	54.6	4558	PASS
95.0	95.0	100	100	100	8346	PASS
96.0	95.0	5.00	9.00	6.22	519	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	68.4	5712	PASS
175	174	5.00	9.00	6.79	388	PASS
176	174	95.0	101	97.6	5576	PASS
177	176	5.00	9.00	5.11	285	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272162-02	CCV-S	01	05/23/2008 09:26	
WG272163-01	BLANK	01	05/23/2008 09:58	
WG272163-02	LCS	01	05/23/2008 10:29	
WG272163-03	LCS2	01	05/23/2008 11:00	
L08050376-01	0133-SO01-051508	01	05/23/2008 18:23	
L08050376-02	0132-SO01-051508	01	05/23/2008 18:54	
L08050376-03	0132-SO02-051508	01	05/23/2008 19:25	
L08050376-04	0129-SO01-051508	01	05/23/2008 19:56	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104257
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050376 **Instrument ID:** HPMS6
Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34
ICAL Workgroup: WG268581 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3223	21.7		1.00
1,2-Dichloropropane	CCC	0.2059	11.4		
Chloroform	CCC	0.4245	7.77		
Ethylbenzene	CCC	0.3544	14.0		
Toluene	CCC	0.9880	9.37		
Vinyl Chloride	CCC	0.1848	14.0		
1,1,2,2-Tetrachloroethane	SPCC	0.3941	11.3		
1,1-Dichloroethane	SPCC	0.4171	11.5		
Bromoform	SPCC	0.1346	18.5	1.00	
Chlorobenzene	SPCC	0.7123	4.25		
Chloromethane	SPCC	0.2801	7.35		
1,1,1-Trichloroethane		0.3724	21.9	1.00	
1,1,2-Trichloroethane		0.1864	5.86		
1,2,4-Trichlorobenzene		0.6579	6.63		
1,2-Dichlorobenzene		0.9364	5.40		
1,2-Dichloroethane		0.3502	4.00		
1,3-Dichlorobenzene		1.022	4.90		
1,4-Dichlorobenzene		1.092	3.52		
1,4-Dioxane		0.001133	35.0		0.991
2-Butanone		0.06587	11.1		
2-Hexanone		0.1291	11.8		
4-Methyl-2-Pentanone		0.05044	22.0	0.998	
Acetone		0.04653	7.11		
Acrylonitrile		0.04803	23.6		1.00
Benzene		0.7533	10.3		
Bromodichloromethane		0.3033	14.3		
Bromomethane		0.1167	38.7		1.00
Carbon Disulfide		0.5297	21.1		1.00
Carbon Tetrachloride		0.2937	24.1	1.00	
Chloroethane		0.1615	22.2		1.00
Dibromochloromethane		0.2280	16.2	1.00	
Methyl Tert Butyl Ether		0.4486	15.5		
Methylene Chloride		0.2016	11.2		
Styrene		0.7948	17.1		1.00
Tetrachloroethene		0.2174	14.0		
Trichloroethene		0.1669	19.2		1.00
Vinyl Acetate		0.3242	5.78		
cis-1,2-Dichloroethene		0.1906	14.2		
cis-1,3-Dichloropropene		0.3033	22.4		1.00
m-,p-Xylene		0.4460	13.9		
o-Xylene		0.4387	16.7		1.00
trans-1,2-Dichloroethene		0.1703	18.7		1.00
trans-1,3-Dichloropropene		0.4226	12.9		

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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050376
Analytical Method: 8260B
ICAL Workgroup: WG268581

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050376 **Instrument ID:** HPMS9
Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39
ICAL Workgroup: WG270933 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.4588	7.55		
1,2-Dichloropropane	CCC	0.2608	10.7		
Chloroform	CCC	0.5162	3.59		
Ethylbenzene	CCC	0.5626	9.19		
Toluene	CCC	1.724	12.5		
Vinyl Chloride	CCC	0.1858	12.0		
1,1,2,2-Tetrachloroethane	SPCC	0.7830	4.40		
1,1-Dichloroethane	SPCC	0.5553	3.69		
Bromoform	SPCC	0.1603	13.5		
Chlorobenzene	SPCC	1.026	3.24		
Chloromethane	SPCC	0.3160	14.7		
1,1,1-Trichloroethane		0.4383	6.48		
1,1,2-Trichloroethane		0.2955	6.26		
1,2,4-Trichlorobenzene		0.8378	12.8		
1,2-Dichlorobenzene		1.288	4.20		
1,2-Dichloroethane		0.4151	5.15		
1,3-Dichlorobenzene		1.452	3.94		
1,4-Dichlorobenzene		1.533	6.37		
1,4-Dioxane		0.001683	22.2	0.997	
2-Butanone		0.1054	8.74		
2-Hexanone		0.2294	14.2		
4-Methyl-2-Pentanone		0.07657	11.7		
Acetone		0.08272	28.3	0.999	
Acrylonitrile		0.07434	13.1		
Benzene		1.089	4.81		
Bromodichloromethane		0.3374	9.35		
Bromomethane		0.1093	8.38		
Carbon Disulfide		0.9167	5.80		
Carbon Tetrachloride		0.3112	13.7		
Chloroethane		0.1761	3.81		
Dibromochloromethane		0.2826	14.3		
Methyl Tert Butyl Ether		0.6528	12.5		
Methylene Chloride		0.2741	12.4		
Styrene		1.015	17.0	1.00	
Tetrachloroethene		0.3176	6.72		
Trichloroethene		0.2225	6.49		
Vinyl Acetate		0.4854	11.1		
cis-1,2-Dichloroethene		0.2590	6.95		
cis-1,3-Dichloropropene		0.3986	15.0		
m-,p-Xylene		0.6677	10.2		
o-Xylene		0.5964	19.4	1.00	
trans-1,2-Dichloroethene		0.2562	9.35		
trans-1,3-Dichloropropene		0.6074	14.3		

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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050376 Instrument ID: HPMS9

Analytical Method: 8260B Initial Calibration Date: 12-MAY-08 18:39

ICAL Workgroup: WG270933 Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum

R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	1.00	7093.00000	0.2582
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	5051.00000	0.1839
Chloroform	0.300	3813.00000	0.4238	0.400	4177.00000	0.3953	1.00	10990.0000	0.4000
Ethylbenzene	NA	NA	NA	0.400	2333.00000	0.3035	1.00	6244.00000	0.3128
Toluene	NA	NA	NA	0.400	7027.00000	0.9142	1.00	17568.0000	0.8802
Vinyl Chloride	NA	NA	NA	0.400	1684.00000	0.1594	1.00	5494.00000	0.2000
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1339.00000	0.3131	1.00	4089.00000	0.3658
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	1.00	10008.0000	0.3643
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2140.00000	0.1072
Chlorobenzene	NA	NA	NA	0.400	5272.00000	0.6859	1.00	13791.0000	0.6909
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	7787.00000	0.2835
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	1.00	7587.00000	0.2762
1,1,2-Trichloroethane	NA	NA	NA	0.400	1285.00000	0.1672	1.00	3704.00000	0.1856
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	2689.00000	0.6287	1.00	6958.00000	0.6224
1,2-Dichlorobenzene	0.300	3091.00000	0.8576	0.400	4000.00000	0.9353	1.00	10075.0000	0.9012
1,2-Dichloroethane	NA	NA	NA	0.400	3634.00000	0.3439	1.00	9523.00000	0.3466
1,3-Dichlorobenzene	NA	NA	NA	0.400	4191.00000	0.9799	1.00	11119.0000	0.9946
1,4-Dichlorobenzene	0.300	4089.00000	1.135	0.400	4893.00000	1.144	1.00	11757.0000	1.052
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	7108.00000	0.6726	1.00	18411.0000	0.6702
Bromodichloromethane	NA	NA	NA	0.400	2541.00000	0.2405	1.00	7121.00000	0.2592
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	1611.00000	0.05860
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	11751.0000	0.4277
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	5717.00000	0.2081
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	3438.00000	0.1251
Dibromochloromethane	NA	NA	NA	0.400	1320.00000	0.1717	1.00	3588.00000	0.1798
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	9325.00000	0.3394
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	6632.00000	0.2414
Styrene	NA	NA	NA	NA	NA	NA	1.00	11488.0000	0.5756
Tetrachloroethene	NA	NA	NA	NA	NA	NA	1.00	3763.00000	0.1885
Trichloroethene	NA	NA	NA	NA	NA	NA	1.00	3623.00000	0.1319
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	1546.00000	0.1463	1.00	4737.00000	0.1724
cis-1,3-Dichloropropene	NA	NA	NA	0.400	2062.00000	0.1951	1.00	6617.00000	0.2409
m-,p-Xylene	NA	NA	NA	0.800	5491.00000	0.3572	2.00	15909.0000	0.3985
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	6824.00000	0.3419
trans-1,2-Dichloroethene	NA	NA	NA	0.400	1317.00000	0.1246	1.00	3871.00000	0.1409

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	11704.0000	0.2057	5.00	39967.0000	0.2960	20.0	210973.000	0.3754
1,2-Dichloropropane	2.00	9770.00000	0.1717	5.00	26235.0000	0.1943	20.0	119890.000	0.2133
Chloroform	2.00	20663.0000	0.3632	5.00	57384.0000	0.4250	20.0	259831.000	0.4623
Ethylbenzene	2.00	11462.0000	0.2815	5.00	34219.0000	0.3489	20.0	166968.000	0.4040
Toluene	2.00	35511.0000	0.8721	5.00	98405.0000	1.003	20.0	460399.000	1.114
Vinyl Chloride	2.00	8770.00000	0.1542	5.00	24211.0000	0.1793	20.0	127011.000	0.2260
1,1,2,2-Tetrachloroethane	2.00	8347.00000	0.3633	5.00	22149.0000	0.3944	20.0	99609.0000	0.4112
1,1-Dichloroethane	2.00	19558.0000	0.3438	5.00	53741.0000	0.3980	20.0	252955.000	0.4501
Bromoform	2.00	3892.00000	0.09560	5.00	12605.0000	0.1285	20.0	60095.0000	0.1454
Chlorobenzene	2.00	27110.0000	0.6658	5.00	70575.0000	0.7195	20.0	310688.000	0.7518
Chloromethane	2.00	14056.0000	0.2471	5.00	37656.0000	0.2789	20.0	169543.000	0.3017
1,1,1-Trichloroethane	2.00	14284.0000	0.2511	5.00	46362.0000	0.3434	20.0	240250.000	0.4275
1,1,2-Trichloroethane	2.00	6995.00000	0.1718	5.00	18567.0000	0.1893	20.0	80316.0000	0.1944
1,2,4-Trichlorobenzene	2.00	13797.0000	0.6005	5.00	35236.0000	0.6275	20.0	170762.000	0.7049
1,2-Dichlorobenzene	2.00	20148.0000	0.8769	5.00	52836.0000	0.9409	20.0	241736.000	0.9978
1,2-Dichloroethane	2.00	18683.0000	0.3284	5.00	49174.0000	0.3642	20.0	208067.000	0.3702
1,3-Dichlorobenzene	2.00	21553.0000	0.9381	5.00	56922.0000	1.014	20.0	260893.000	1.077
1,4-Dichlorobenzene	2.00	24026.0000	1.046	5.00	60389.0000	1.076	20.0	272238.000	1.124
1,4-Dioxane	50.0	741.000000	0.0005000	100	2184.00000	0.0008000	150	4937.00000	0.001200
2-Butanone	NA	NA	NA	5.00	7202.00000	0.05330	20.0	35956.0000	0.06400
2-Hexanone	NA	NA	NA	5.00	9934.00000	0.1013	20.0	50209.0000	0.1215
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4590.00000	0.03400	20.0	26580.0000	0.04730
Acetone	NA	NA	NA	5.00	6422.00000	0.04760	20.0	25598.0000	0.04550
Acrylonitrile	2.00	1760.00000	0.03090	5.00	5216.00000	0.03860	20.0	27758.0000	0.04940
Benzene	2.00	37198.0000	0.6539	5.00	100756.000	0.7463	20.0	458791.000	0.8164
Bromodichloromethane	2.00	14941.0000	0.2627	5.00	40999.0000	0.3037	20.0	186160.000	0.3312
Bromomethane	2.00	3691.00000	0.06490	5.00	12078.0000	0.08950	20.0	73020.0000	0.1299
Carbon Disulfide	2.00	21241.0000	0.3734	5.00	58973.0000	0.4368	20.0	343762.000	0.6117
Carbon Tetrachloride	2.00	10739.0000	0.1888	5.00	36796.0000	0.2725	20.0	197031.000	0.3506
Chloroethane	2.00	6644.00000	0.1168	5.00	17819.0000	0.1320	20.0	96918.0000	0.1725
Dibromochloromethane	2.00	8595.00000	0.2111	5.00	22302.0000	0.2274	20.0	104110.000	0.2519
Methyl Tert Butyl Ether	2.00	21662.0000	0.3808	5.00	56087.0000	0.4154	20.0	273014.000	0.4858
Methylene Chloride	2.00	10938.0000	0.1923	5.00	24838.0000	0.1840	20.0	103270.000	0.1838
Styrene	2.00	26279.0000	0.6454	5.00	75081.0000	0.7654	20.0	366268.000	0.8863
Tetrachloroethene	2.00	6882.00000	0.1690	5.00	20377.0000	0.2077	20.0	103033.000	0.2493
Trichloroethene	2.00	6771.00000	0.1190	5.00	20644.0000	0.1529	20.0	103831.000	0.1848
Vinyl Acetate	NA	NA	NA	5.00	38959.0000	0.2886	20.0	185549.000	0.3302
cis-1,2-Dichloroethene	2.00	9369.00000	0.1647	5.00	25212.0000	0.1867	20.0	119836.000	0.2132
cis-1,3-Dichloropropene	2.00	14338.0000	0.2521	5.00	39961.0000	0.2960	20.0	192254.000	0.3421
m-,p-Xylene	4.00	30558.0000	0.3752	10.0	88429.0000	0.4508	40.0	422748.000	0.5115
o-Xylene	2.00	13599.0000	0.3340	5.00	41797.0000	0.4261	20.0	204836.000	0.4957
trans-1,2-Dichloroethene	2.00	7868.00000	0.1383	5.00	22410.0000	0.1660	20.0	111072.000	0.1976

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	562131.000	0.3769	100	1141885.00	0.3636	200	2436117.00	0.3805
1,2-Dichloropropane	50.0	322549.000	0.2163	100	704787.000	0.2244	200	1520359.00	0.2375
Chloroform	50.0	680375.000	0.4562	100	1393348.00	0.4437	200	2885625.00	0.4508
Ethylbenzene	50.0	445584.000	0.4038	100	969141.000	0.3965	200	2039560.00	0.3840
Toluene	50.0	1209595.00	1.096	100	2511236.00	1.027	200	5294261.00	0.9967
Vinyl Chloride	50.0	317455.000	0.2129	100	563286.000	0.1794	200	1071861.00	0.1674
1,1,2,2-Tetrachloroethane	50.0	272945.000	0.4203	100	615154.000	0.4430	200	1323514.00	0.4415
1,1-Dichloroethane	50.0	680789.000	0.4565	100	1406692.00	0.4479	200	2938297.00	0.4590
Bromoform	50.0	167457.000	0.1518	100	384923.000	0.1575	200	828892.000	0.1560
Chlorobenzene	50.0	822625.000	0.7455	100	1787747.00	0.7313	200	3759113.00	0.7077
Chloromethane	50.0	402302.000	0.2697	100	852946.000	0.2716	200	1973945.00	0.3083
1,1,1-Trichloroethane	50.0	650539.000	0.4362	100	1374210.00	0.4376	200	2782956.00	0.4347
1,1,2-Trichloroethane	50.0	214580.000	0.1945	100	474392.000	0.1941	200	1029927.00	0.1939
1,2,4-Trichlorobenzene	50.0	459816.000	0.7080	100	978864.000	0.7049	200	1997794.00	0.6664
1,2-Dichlorobenzene	50.0	644553.000	0.9924	100	1370231.00	0.9867	200	2814978.00	0.9389
1,2-Dichloroethane	50.0	539583.000	0.3618	100	1087561.00	0.3463	200	2177668.00	0.3402
1,3-Dichlorobenzene	50.0	698094.000	1.075	100	1482306.00	1.067	200	3086815.00	1.030
1,4-Dichlorobenzene	50.0	717858.000	1.105	100	1522735.00	1.097	200	3139083.00	1.047
1,4-Dioxane	200	7596.00000	0.001300	400	20165.0000	0.001600	NA	NA	NA
2-Butanone	50.0	99317.0000	0.06660	100	221029.000	0.07040	200	481146.000	0.07520
2-Hexanone	50.0	148924.000	0.1350	100	342021.000	0.1399	200	741638.000	0.1396
4-Methyl-2-Pentanone	50.0	74987.0000	0.05030	100	180280.000	0.05740	200	404576.000	0.06320
Acetone	50.0	70387.0000	0.04720	100	143288.000	0.04560	200	331088.000	0.05170
Acrylonitrile	50.0	78345.0000	0.05250	100	172536.000	0.05490	200	395960.000	0.06190
Benzene	50.0	1225188.00	0.8215	100	2621867.00	0.8349	200	5190201.00	0.8107
Bromodichloromethane	50.0	500728.000	0.3357	100	1070111.00	0.3408	200	2256520.00	0.3525
Bromomethane	50.0	223555.000	0.1499	100	499768.000	0.1591	200	1057992.00	0.1653
Carbon Disulfide	50.0	915546.000	0.6139	100	1888566.00	0.6014	200	4114624.00	0.6427
Carbon Tetrachloride	50.0	519252.000	0.3482	100	1082844.00	0.3448	200	2197062.00	0.3432
Chloroethane	50.0	279241.000	0.1872	100	623362.000	0.1985	200	1270360.00	0.1984
Dibromochloromethane	50.0	287162.000	0.2602	100	643565.000	0.2633	200	1373056.00	0.2585
Methyl Tert Butyl Ether	50.0	749527.000	0.5026	100	1578651.00	0.5027	200	3287582.00	0.5135
Methylene Chloride	50.0	276619.000	0.1855	100	630171.000	0.2007	200	1432491.00	0.2238
Styrene	50.0	1004569.00	0.9104	100	2200845.00	0.9003	200	4676870.00	0.8805
Tetrachloroethene	50.0	273731.000	0.2481	100	569707.000	0.2331	200	1199421.00	0.2258
Trichloroethene	50.0	278920.000	0.1870	100	612889.000	0.1952	200	1264126.00	0.1975
Vinyl Acetate	50.0	492502.000	0.3302	100	1057529.00	0.3368	200	2173766.00	0.3396
cis-1,2-Dichloroethene	50.0	319303.000	0.2141	100	662548.000	0.2110	200	1384922.00	0.2163
cis-1,3-Dichloropropene	50.0	528341.000	0.3543	100	1143283.00	0.3641	200	2442187.00	0.3815
m-,p-Xylene	100	1129083.00	0.5116	200	2425557.00	0.4961	400	4958617.00	0.4668
o-Xylene	50.0	552223.000	0.5004	100	1203757.00	0.4924	200	2553083.00	0.4806
trans-1,2-Dichloroethene	50.0	297999.000	0.1998	100	617709.000	0.1967	200	1269936.00	0.1984

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	600	27801.0000	0.001400
2-Butanone	300	672287.000	0.06570
2-Hexanone	300	1020911.00	0.1373
4-Methyl-2-Pentanone	NA	NA	NA
Acetone	300	425575.000	0.04160
Acrylonitrile	NA	NA	NA
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	300	3273009.00	0.3197
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	6737.00000	0.3375

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	14567.0000	0.3577	5.00	40654.0000	0.4145	20.0	193074.000	0.4672

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INITIAL CALIBRATION DATA

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Analytical Method: 8260B
Instrument ID: HPMS6
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Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	518589.000	0.4700	100	1123613.00	0.4597	200	2400145.00	0.4519

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INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	1.00	6393.00000	0.4071	2.00	13566.0000	0.4272
1,2-Dichloropropane	NA	NA	NA	1.00	3254.00000	0.2072	2.00	8013.00000	0.2523
Chloroform	NA	NA	NA	1.00	7976.00000	0.5079	2.00	15792.0000	0.4973
Ethylbenzene	NA	NA	NA	1.00	4761.00000	0.5005	2.00	9446.00000	0.4974
Toluene	NA	NA	NA	1.00	12626.0000	1.327	2.00	30014.0000	1.580
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	6925.00000	0.2181
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	3345.00000	0.7776	2.00	6577.00000	0.7594
1,1-Dichloroethane	NA	NA	NA	1.00	8631.00000	0.5496	2.00	16963.0000	0.5342
Bromoform	NA	NA	NA	NA	NA	NA	2.00	2429.00000	0.1279
Chlorobenzene	NA	NA	NA	1.00	9933.00000	1.044	2.00	19044.0000	1.003
Chloromethane	NA	NA	NA	1.00	6439.00000	0.4100	2.00	10808.0000	0.3403
1,1,1-Trichloroethane	NA	NA	NA	1.00	6199.00000	0.3948	2.00	13170.0000	0.4147
1,1,2-Trichloroethane	NA	NA	NA	1.00	2516.00000	0.2645	2.00	5653.00000	0.2977
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	2950.00000	0.6858	2.00	6557.00000	0.7571
1,2-Dichlorobenzene	NA	NA	NA	1.00	5430.00000	1.262	2.00	10544.0000	1.217
1,2-Dichloroethane	NA	NA	NA	1.00	6043.00000	0.3848	2.00	13057.0000	0.4112
1,3-Dichlorobenzene	NA	NA	NA	1.00	6160.00000	1.432	2.00	11894.0000	1.373
1,4-Dichlorobenzene	NA	NA	NA	1.00	7367.00000	1.713	2.00	13568.0000	1.567
1,4-Dioxane	NA	NA	NA	NA	NA	NA	50.0	960.000000	0.001200
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	2.00	4290.00000	0.2259
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	2.00	2075.00000	0.06530
Benzene	NA	NA	NA	1.00	15706.0000	1.000	2.00	34249.0000	1.079
Bromodichloromethane	NA	NA	NA	1.00	4703.00000	0.2995	2.00	9583.00000	0.3018
Bromomethane	NA	NA	NA	1.00	1597.00000	0.1017	2.00	3401.00000	0.1071
Carbon Disulfide	NA	NA	NA	1.00	15811.0000	1.007	2.00	29433.0000	0.9268
Carbon Tetrachloride	NA	NA	NA	1.00	3662.00000	0.2332	2.00	9059.00000	0.2853
Chloroethane	NA	NA	NA	1.00	2807.00000	0.1787	2.00	5257.00000	0.1655
Dibromochloromethane	NA	NA	NA	NA	NA	NA	2.00	4240.00000	0.2233
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	17468.0000	0.5501
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	10422.0000	0.3282
Styrene	NA	NA	NA	NA	NA	NA	2.00	13650.0000	0.7188
Tetrachloroethene	NA	NA	NA	1.00	2776.00000	0.2918	2.00	5518.00000	0.2906
Trichloroethene	NA	NA	NA	1.00	3175.00000	0.2022	2.00	6691.00000	0.2107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	14317.0000	0.4508
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3619.00000	0.2305	2.00	7779.00000	0.2450
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	2.00	9719.00000	0.3060
m-,p-Xylene	1.00	5660.00000	0.5719	2.00	11146.0000	0.5858	4.00	23579.0000	0.6208
o-Xylene	NA	NA	NA	1.00	3824.00000	0.4020	2.00	9538.00000	0.5022
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3365.00000	0.2143	2.00	7448.00000	0.2345

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	36896.0000	0.4476	20.0	156692.000	0.4683	50.0	412211.000	0.5025
1,2-Dichloropropane	5.00	21008.0000	0.2549	20.0	86489.0000	0.2585	50.0	235779.000	0.2874
Chloroform	5.00	42879.0000	0.5202	20.0	169069.000	0.5053	50.0	446055.000	0.5438
Ethylbenzene	5.00	26651.0000	0.5399	20.0	115596.000	0.5708	50.0	311046.000	0.6262
Toluene	5.00	83438.0000	1.690	20.0	356327.000	1.759	50.0	951503.000	1.916
Vinyl Chloride	5.00	16451.0000	0.1996	20.0	61278.0000	0.1832	50.0	155260.000	0.1893
1,1,2,2-Tetrachloroethane	5.00	18301.0000	0.7999	20.0	69709.0000	0.7375	50.0	197663.000	0.8470
1,1-Dichloroethane	5.00	46079.0000	0.5590	20.0	183109.000	0.5473	50.0	477051.000	0.5815
Bromoform	5.00	7264.00000	0.1471	20.0	30815.0000	0.1522	50.0	92350.0000	0.1859
Chlorobenzene	5.00	50596.0000	1.025	20.0	200813.000	0.9915	50.0	537818.000	1.083
Chloromethane	5.00	25485.0000	0.3092	20.0	97925.0000	0.2927	50.0	238892.000	0.2912
1,1,1-Trichloroethane	5.00	36085.0000	0.4378	20.0	148594.000	0.4441	50.0	388224.000	0.4733
1,1,2-Trichloroethane	5.00	14699.0000	0.2978	20.0	57520.0000	0.2840	50.0	160693.000	0.3235
1,2,4-Trichlorobenzene	5.00	17715.0000	0.7743	20.0	77361.0000	0.8185	50.0	225695.000	0.9672
1,2-Dichlorobenzene	5.00	29594.0000	1.293	20.0	117796.000	1.246	50.0	320823.000	1.375
1,2-Dichloroethane	5.00	35252.0000	0.4277	20.0	136303.000	0.4074	50.0	366257.000	0.4465
1,3-Dichlorobenzene	5.00	33534.0000	1.466	20.0	134724.000	1.425	50.0	361829.000	1.551
1,4-Dichlorobenzene	5.00	34966.0000	1.528	20.0	136799.000	1.447	50.0	364265.000	1.561
1,4-Dioxane	100	2487.00000	0.001500	150	3412.00000	0.001400	200	6625.00000	0.002000
2-Butanone	5.00	9520.00000	0.1155	20.0	30969.0000	0.09260	50.0	90902.0000	0.1108
2-Hexanone	5.00	8633.00000	0.1749	20.0	40072.0000	0.1979	50.0	127211.000	0.2561
4-Methyl-2-Pentanone	5.00	5157.00000	0.06260	20.0	23191.0000	0.06930	50.0	69458.0000	0.08470
Acetone	5.00	10220.0000	0.1240	20.0	23803.0000	0.07110	50.0	64842.0000	0.07900
Acrylonitrile	5.00	4904.00000	0.05950	20.0	22897.0000	0.06840	50.0	69006.0000	0.08410
Benzene	5.00	90941.0000	1.103	20.0	363548.000	1.087	50.0	951282.000	1.160
Bromodichloromethane	5.00	26456.0000	0.3210	20.0	112426.000	0.3360	50.0	309859.000	0.3777
Bromomethane	5.00	7993.00000	0.09700	20.0	34963.0000	0.1045	50.0	95227.0000	0.1161
Carbon Disulfide	5.00	71112.0000	0.8627	20.0	302228.000	0.9033	50.0	780732.000	0.9517
Carbon Tetrachloride	5.00	24711.0000	0.2998	20.0	109746.000	0.3280	50.0	291285.000	0.3551
Chloroethane	5.00	15115.0000	0.1834	20.0	56124.0000	0.1677	50.0	146967.000	0.1792
Dibromochloromethane	5.00	12361.0000	0.2504	20.0	55464.0000	0.2739	50.0	161009.000	0.3241
Methyl Tert Butyl Ether	5.00	47996.0000	0.5823	20.0	209936.000	0.6275	50.0	617880.000	0.7532
Methylene Chloride	5.00	24991.0000	0.3032	20.0	83872.0000	0.2507	50.0	218794.000	0.2667
Styrene	5.00	45367.0000	0.9190	20.0	205246.000	1.013	50.0	579871.000	1.167
Tetrachloroethene	5.00	15175.0000	0.3074	20.0	65599.0000	0.3239	50.0	170532.000	0.3433
Trichloroethene	5.00	17908.0000	0.2173	20.0	74427.0000	0.2225	50.0	198950.000	0.2425
Vinyl Acetate	5.00	34394.0000	0.4173	20.0	144304.000	0.4313	50.0	450260.000	0.5489
cis-1,2-Dichloroethene	5.00	21509.0000	0.2609	20.0	86093.0000	0.2573	50.0	229982.000	0.2804
cis-1,3-Dichloropropene	5.00	29275.0000	0.3551	20.0	130047.000	0.3887	50.0	372613.000	0.4542
m-,p-Xylene	10.0	66804.0000	0.6766	40.0	279515.000	0.6901	100	749507.000	0.7545
o-Xylene	5.00	27361.0000	0.5543	20.0	125671.000	0.6205	50.0	352077.000	0.7088
trans-1,2-Dichloroethene	5.00	21611.0000	0.2622	20.0	88416.0000	0.2643	50.0	229210.000	0.2794

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	832531.000	0.4962	200	1504017.00	0.4625	NA	NA	NA
1,2-Dichloropropane	100	480649.000	0.2864	200	905931.000	0.2786	NA	NA	NA
Chloroform	100	903271.000	0.5383	200	1627555.00	0.5005	NA	NA	NA
Ethylbenzene	100	601327.000	0.6124	200	1121306.00	0.5909	NA	NA	NA
Toluene	100	1886524.00	1.921	200	3557692.00	1.875	NA	NA	NA
Vinyl Chloride	100	286506.000	0.1707	200	500174.000	0.1538	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	355195.000	0.7746	200	705193.000	0.7848	NA	NA	NA
1,1-Dichloroethane	100	977894.000	0.5828	200	1731421.00	0.5324	NA	NA	NA
Bromoform	100	169772.000	0.1729	200	333140.000	0.1756	NA	NA	NA
Chlorobenzene	100	1024707.00	1.044	200	1885988.00	0.9939	NA	NA	NA
Chloromethane	100	459282.000	0.2737	200	959711.000	0.2951	NA	NA	NA
1,1,1-Trichloroethane	100	790925.000	0.4714	200	1405524.00	0.4322	NA	NA	NA
1,1,2-Trichloroethane	100	302413.000	0.3080	200	555741.000	0.2929	NA	NA	NA
1,2,4-Trichlorobenzene	100	437389.000	0.9538	200	815612.000	0.9077	NA	NA	NA
1,2-Dichlorobenzene	100	614087.000	1.339	200	1152410.00	1.283	NA	NA	NA
1,2-Dichloroethane	100	723954.000	0.4314	200	1289849.00	0.3966	NA	NA	NA
1,3-Dichlorobenzene	100	683969.000	1.492	200	1278695.00	1.423	NA	NA	NA
1,4-Dichlorobenzene	100	687968.000	1.500	200	1268732.00	1.412	NA	NA	NA
1,4-Dioxane	400	13644.0000	0.002000	NA	NA	NA	600	20425.0000	0.002000
2-Butanone	100	170016.000	0.1013	200	320464.000	0.09850	300	575724.000	0.1134
2-Hexanone	100	232440.000	0.2367	200	475176.000	0.2504	300	762913.000	0.2640
4-Methyl-2-Pentanone	100	129991.000	0.07750	200	261419.000	0.08040	300	431135.000	0.08490
Acetone	100	119224.000	0.07110	200	222409.000	0.06840	NA	NA	NA
Acrylonitrile	100	138058.000	0.08230	200	261513.000	0.08040	300	407809.000	0.08040
Benzene	100	1908422.00	1.137	200	3443505.00	1.059	NA	NA	NA
Bromodichloromethane	100	618856.000	0.3688	200	1160199.00	0.3568	NA	NA	NA
Bromomethane	100	195989.000	0.1168	200	397037.000	0.1221	NA	NA	NA
Carbon Disulfide	100	1535985.00	0.9154	200	2765655.00	0.8504	NA	NA	NA
Carbon Tetrachloride	100	587410.000	0.3501	200	1063328.00	0.3270	NA	NA	NA
Chloroethane	100	299319.000	0.1784	200	585303.000	0.1800	NA	NA	NA
Dibromochloromethane	100	310238.000	0.3159	200	584740.000	0.3081	NA	NA	NA
Methyl Tert Butyl Ether	100	1236750.00	0.7370	200	2168088.00	0.6667	NA	NA	NA
Methylene Chloride	100	425995.000	0.2539	200	786904.000	0.2420	NA	NA	NA
Styrene	100	1129465.00	1.150	200	2126229.00	1.121	NA	NA	NA
Tetrachloroethene	100	331921.000	0.3380	200	623274.000	0.3285	NA	NA	NA
Trichloroethene	100	400818.000	0.2389	200	727344.000	0.2237	NA	NA	NA
Vinyl Acetate	100	891726.000	0.5314	200	1575238.00	0.4844	300	2710030.00	0.5340
cis-1,2-Dichloroethene	100	470924.000	0.2807	200	839787.000	0.2582	NA	NA	NA
cis-1,3-Dichloropropene	100	753697.000	0.4492	200	1426324.00	0.4386	NA	NA	NA
m-,p-Xylene	200	1453870.00	0.7403	400	2662835.00	0.7016	NA	NA	NA
o-Xylene	100	686142.000	0.6988	200	1305696.00	0.6881	NA	NA	NA
trans-1,2-Dichloroethene	100	469986.000	0.2801	200	839949.000	0.2583	NA	NA	NA

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	4563.00000	0.4797	2.00	10288.0000	0.5417

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	27404.0000	0.5551	20.0	123023.000	0.6074	50.0	356535.000	0.7178

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	677983.000	0.6905	200	1251013.00	0.6593	NA	NA	NA

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	20.4	ug/L	0.365	1.90	25	
1,2-Dichloropropane	CCC	20.0	21.5	ug/L	0.221	7.30	25	
Chloroform	CCC	20.0	21.8	ug/L	0.462	8.90	25	
Ethylbenzene	CCC	20.0	23.5	ug/L	0.416	17.3	25	
Toluene	CCC	20.0	22.5	ug/L	1.11	12.5	25	
Vinyl Chloride	CCC	20.0	24.1	ug/L	0.223	20.6	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.7	ug/L	0.409	3.70	25	
1,1-Dichloroethane	SPCC	20.0	22.1	ug/L	0.460	10.3	25	
Bromoform	SPCC	20.0	18.9	ug/L	0.141	5.60	25	
Chlorobenzene	SPCC	20.0	21.5	ug/L	0.767	7.70	25	
Chloromethane	SPCC	20.0	21.5	ug/L	0.302	7.70	25	
1,1,1-Trichloroethane		20.0	20.2	ug/L	0.431	1.20	25	
1,1,2-Trichloroethane		20.0	20.9	ug/L	0.195	4.60	25	
1,2,4-Trichlorobenzene		20.0	22.5	ug/L	0.739	12.3	25	
1,2-Dichlorobenzene		20.0	22.0	ug/L	1.03	10.1	25	
1,2-Dichloroethane		20.0	20.6	ug/L	0.360	2.80	25	
1,3-Dichlorobenzene		20.0	21.7	ug/L	1.11	8.60	25	
1,4-Dichlorobenzene		20.0	20.8	ug/L	1.14	4.10	25	
1,4-Dioxane		200	177	ug/L	0.00160	11.6	25	
2-Butanone		20.0	21.0	ug/L	0.0692	5.00	25	
2-Hexanone		20.0	18.7	ug/L	0.120	6.70	25	
4-Methyl-2-Pentanone		20.0	21.7	ug/L	0.0485	8.50	25	
Acetone		20.0	21.2	ug/L	0.0492	5.80	25	
Acrylonitrile		20.0	20.9	ug/L	0.0511	4.50	25	
Benzene		20.0	22.2	ug/L	0.835	10.9	25	
Bromodichloromethane		20.0	22.6	ug/L	0.343	13.1	25	
Bromomethane		20.0	18.3	ug/L	0.128	8.70	25	
Carbon Disulfide		20.0	19.0	ug/L	0.550	5.10	25	
Carbon Tetrachloride		20.0	20.8	ug/L	0.352	3.80	25	
Dibromochloromethane		20.0	19.5	ug/L	0.251	2.40	25	
Chloroethane		20.0	19.9	ug/L	0.182	0.600	25	
cis-1,2-Dichloroethene		20.0	23.4	ug/L	0.223	16.8	25	
cis-1,3-Dichloropropene		20.0	20.1	ug/L	0.346	0.600	25	
Methylene Chloride		20.0	19.0	ug/L	0.192	4.90	25	
Methyl Tert Butyl Ether		20.0	20.5	ug/L	0.501	2.60	25	
Styrene		20.0	20.3	ug/L	0.909	1.40	25	
Tetrachloroethene		20.0	23.2	ug/L	0.252	15.9	25	
trans-1,2-Dichloroethene		20.0	20.5	ug/L	0.200	2.40	25	
trans-1,3-Dichloropropene		20.0	18.9	ug/L	0.400	5.40	25	
Trichloroethene		20.0	21.4	ug/L	0.199	7.10	25	
Vinyl Acetate		20.0	10.5	ug/L	0.170	47.6	25	*
Xylenes		60.0	67.8	ug/L	0.517	12.9	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	20.6	ug/L	0.508	2.80	25	
m-,p-Xylene		40.0	47.2	ug/L	0.526	18.0	25	
1,2-Dichloroethene		40.0	43.8	ug/L	0.211	9.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/kg	0.447	2.50	25	
1,2-Dichloropropane	CCC	20.0	21.4	ug/kg	0.279	6.90	25	
Chloroform	CCC	20.0	20.6	ug/kg	0.532	3.00	25	
Ethylbenzene	CCC	20.0	22.1	ug/kg	0.623	10.7	25	
Toluene	CCC	20.0	21.9	ug/kg	1.89	9.70	25	
Vinyl Chloride	CCC	20.0	19.4	ug/kg	0.180	3.10	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/kg	0.871	11.2	25	
1,1-Dichloroethane	SPCC	20.0	20.2	ug/kg	0.562	1.20	25	
Bromoform	SPCC	20.0	21.3	ug/kg	0.171	6.40	25	
Chlorobenzene	SPCC	20.0	21.1	ug/kg	1.08	5.70	25	
Chloromethane	SPCC	20.0	16.8	ug/kg	0.265	16.1	25	
1,1,1-Trichloroethane		20.0	20.5	ug/kg	0.449	2.30	25	
1,1,2-Trichloroethane		20.0	22.3	ug/kg	0.329	11.3	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.897	7.10	25	
1,2-Dichlorobenzene		20.0	21.7	ug/kg	1.40	8.60	25	
1,2-Dichloroethane		20.0	20.4	ug/kg	0.423	2.00	25	
1,3-Dichlorobenzene		20.0	21.4	ug/kg	1.55	7.10	25	
1,4-Dichlorobenzene		20.0	20.0	ug/kg	1.54	0.200	25	
1,4-Dioxane		150	216	ug/kg	0.00270	43.9	25	*
2-Butanone		20.0	23.4	ug/kg	0.124	17.2	25	
2-Hexanone		20.0	20.4	ug/kg	0.234	1.90	25	
4-Methyl-2-Pentanone		20.0	19.9	ug/kg	0.0763	0.400	25	
Acetone		20.0	22.2	ug/kg	0.0905	11.2	25	
Acrylonitrile		20.0	22.4	ug/kg	0.0834	12.1	25	
Benzene		20.0	20.8	ug/kg	1.13	4.10	25	
Bromodichloromethane		20.0	21.9	ug/kg	0.369	9.50	25	
Bromomethane		20.0	19.3	ug/kg	0.105	3.60	25	
Carbon Disulfide		20.0	17.0	ug/kg	0.781	14.8	25	
Carbon Tetrachloride		20.0	20.5	ug/kg	0.319	2.50	25	
Dibromochloromethane		20.0	21.7	ug/kg	0.307	8.60	25	
Chloroethane		20.0	19.0	ug/kg	0.168	4.80	25	
cis-1,2-Dichloroethene		20.0	21.2	ug/kg	0.275	6.20	25	
cis-1,3-Dichloropropene		20.0	20.8	ug/kg	0.414	3.80	25	
Methylene Chloride		20.0	19.2	ug/kg	0.263	4.10	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/kg	0.692	6.00	25	
Styrene		20.0	20.0	ug/kg	1.11	0.200	25	
Tetrachloroethene		20.0	20.5	ug/kg	0.326	2.60	25	
trans-1,2-Dichloroethene		20.0	20.2	ug/kg	0.259	1.00	25	
trans-1,3-Dichloropropene		20.0	20.2	ug/kg	0.613	1.00	25	
Trichloroethene		20.0	20.8	ug/kg	0.231	4.00	25	
Vinyl Acetate		20.0	10.3	ug/kg	0.249	48.7	25	*
Xylenes		60.0	65.5	ug/kg	0.723	9.20	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	41.4	ug/kg	0.267	3.60	25	
o-Xylene		20.0	20.5	ug/kg	0.694	2.60	25	
m-,p-Xylene		40.0	45.0	ug/kg	0.751	12.5	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Version 1.5 PDF File ID: 1103690
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/24/2008 Sample ID: WG272248-02
Instrument ID: HPMS6 Run Time: 09:58 Method: 8260B
File ID: 6M75396 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG272249 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	53.6	ug/L	0.390	7.14	20	
1,2-Dichloropropane	CCC	50.0	52.8	ug/L	0.218	5.62	20	
Chloroform	CCC	50.0	52.7	ug/L	0.448	5.43	20	
Ethylbenzene	CCC	50.0	58.0	ug/L	0.411	16.0	20	
Toluene	CCC	50.0	58.6	ug/L	1.16	17.1	20	
Vinyl Chloride	CCC	50.0	50.6	ug/L	0.187	1.12	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.7	ug/L	0.384	2.53	20	
1,1-Dichloroethane	SPCC	50.0	54.2	ug/L	0.452	8.43	20	
Bromoform	SPCC	50.0	45.1	ug/L	0.139	9.73	20	
Chlorobenzene	SPCC	50.0	52.1	ug/L	0.742	4.13	20	
Chloromethane	SPCC	50.0	46.7	ug/L	0.262	6.60	20	
1,1,1-Trichloroethane		50.0	49.3	ug/L	0.426	1.39	20	
1,1,2-Trichloroethane		50.0	49.2	ug/L	0.183	1.67	20	
1,2,4-Trichlorobenzene		50.0	54.1	ug/L	0.712	8.23	20	
1,2-Dichlorobenzene		50.0	52.8	ug/L	0.989	5.66	20	
1,2-Dichloroethane		50.0	46.6	ug/L	0.326	6.86	20	
1,3-Dichlorobenzene		50.0	54.0	ug/L	1.10	8.05	20	
1,4-Dichlorobenzene		50.0	51.6	ug/L	1.13	3.27	20	
1,4-Dioxane		200	175	ug/L	0.00120	12.3	20	
2-Butanone		50.0	42.5	ug/L	0.0560	15.0	20	
2-Hexanone		50.0	41.9	ug/L	0.108	16.1	20	
4-Methyl-2-Pentanone		50.0	39.9	ug/L	0.0428	20.2	20	*
Acetone		50.0	45.3	ug/L	0.0421	9.49	20	
Acrylonitrile		50.0	48.9	ug/L	0.0505	2.16	20	
Benzene		50.0	54.6	ug/L	0.822	9.14	20	
Bromodichloromethane		50.0	53.2	ug/L	0.322	6.31	20	
Bromomethane		50.0	58.4	ug/L	0.179	16.7	20	
Carbon Disulfide		50.0	56.0	ug/L	0.668	12.0	20	
Carbon Tetrachloride		50.0	49.9	ug/L	0.341	0.297	20	
Dibromochloromethane		50.0	47.2	ug/L	0.244	5.57	20	
Chloroethane		50.0	45.0	ug/L	0.173	10.0	20	
cis-1,2-Dichloroethene		50.0	58.9	ug/L	0.224	17.7	20	
cis-1,3-Dichloropropene		50.0	47.4	ug/L	0.335	5.29	20	
Methylene Chloride		50.0	48.8	ug/L	0.197	2.47	20	
Methyl Tert Butyl Ether		50.0	50.0	ug/L	0.497	0.0730	20	
Styrene		50.0	50.0	ug/L	0.906	0.0844	20	
Tetrachloroethene		50.0	59.9	ug/L	0.260	19.7	20	
trans-1,2-Dichloroethene		50.0	54.2	ug/L	0.214	8.33	20	
trans-1,3-Dichloropropene		50.0	51.7	ug/L	0.437	3.45	20	
Trichloroethene		50.0	50.5	ug/L	0.193	0.977	20	
Vinyl Acetate		50.0	20.7	ug/L	0.134	58.6	20	*
Xylenes		150	167	ug/L	0.511	11.3	20	

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CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/24/2008 Sample ID: WG272248-02

Instrument ID: HPMS6 Run Time: 09:58 Method: 8260B

File ID: 6M75396 Analyst: CMS QC Key: DOWWV2006

Workgroup (AAB#): WG272249 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	113	ug/L	0.219	13.0	20	
m-,p-Xylene		100	116	ug/L	0.518	16.2	20	
o-Xylene		50.0	50.7	ug/L	0.504	1.31	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/23/2008 Sample ID: WG272162-02
Instrument ID: HPMS9 Run Time: 09:26 Method: 8260B
File ID: 9M62078 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG272163 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	44.0	ug/kg	0.404	12.0	20	
1,2-Dichloropropane	CCC	50.0	48.2	ug/kg	0.251	3.66	20	
Chloroform	CCC	50.0	46.0	ug/kg	0.475	7.96	20	
Ethylbenzene	CCC	50.0	54.0	ug/kg	0.608	7.99	20	
Toluene	CCC	50.0	52.6	ug/kg	1.81	5.11	20	
Vinyl Chloride	CCC	50.0	51.9	ug/kg	0.193	3.78	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.1	ug/kg	0.785	0.226	20	
1,1-Dichloroethane	SPCC	50.0	41.4	ug/kg	0.460	17.2	20	
Bromoform	SPCC	50.0	66.4	ug/kg	0.213	32.7	20	*
Chlorobenzene	SPCC	50.0	51.3	ug/kg	1.05	2.56	20	
Chloromethane	SPCC	50.0	46.2	ug/kg	0.292	7.57	20	
1,1,1-Trichloroethane		50.0	49.8	ug/kg	0.437	0.390	20	
1,1,2-Trichloroethane		50.0	52.8	ug/kg	0.312	5.66	20	
1,2,4-Trichlorobenzene		50.0	59.0	ug/kg	0.989	18.0	20	
1,2-Dichlorobenzene		50.0	52.9	ug/kg	1.36	5.90	20	
1,2-Dichloroethane		50.0	45.7	ug/kg	0.380	8.56	20	
1,3-Dichlorobenzene		50.0	51.6	ug/kg	1.50	3.12	20	
1,4-Dichlorobenzene		50.0	49.1	ug/kg	1.51	1.79	20	
1,4-Dioxane		200	238	ug/kg	0.00220	19.2	20	
2-Butanone		50.0	47.5	ug/kg	0.100	5.07	20	
2-Hexanone		50.0	48.2	ug/kg	0.221	3.51	20	
4-Methyl-2-Pentanone		50.0	55.5	ug/kg	0.0850	11.0	20	
Acetone		50.0	52.0	ug/kg	0.0762	4.05	20	
Acrylonitrile		50.0	51.2	ug/kg	0.0762	2.49	20	
Benzene		50.0	49.8	ug/kg	1.08	0.394	20	
Bromodichloromethane		50.0	53.3	ug/kg	0.359	6.52	20	
Bromomethane		50.0	62.8	ug/kg	0.137	25.6	20	*
Carbon Disulfide		50.0	43.4	ug/kg	0.796	13.2	20	
Carbon Tetrachloride		50.0	54.0	ug/kg	0.336	7.92	20	
Dibromochloromethane		50.0	61.3	ug/kg	0.347	22.6	20	*
Chloroethane		50.0	50.3	ug/kg	0.177	0.672	20	
cis-1,2-Dichloroethene		50.0	48.0	ug/kg	0.249	4.06	20	
cis-1,3-Dichloropropene		50.0	53.6	ug/kg	0.427	7.11	20	
Methylene Chloride		50.0	44.0	ug/kg	0.241	12.0	20	
Methyl Tert Butyl Ether		50.0	51.9	ug/kg	0.678	3.84	20	
Styrene		50.0	51.6	ug/kg	1.16	3.19	20	
Tetrachloroethene		50.0	55.7	ug/kg	0.354	11.4	20	
trans-1,2-Dichloroethene		50.0	46.6	ug/kg	0.239	6.82	20	
trans-1,3-Dichloropropene		50.0	55.2	ug/kg	0.671	10.4	20	
Trichloroethene		50.0	55.0	ug/kg	0.245	10.1	20	
Vinyl Acetate		50.0	20.2	ug/kg	0.196	59.6	20	*
Xylenes		150	161	ug/kg	0.716	7.28	20	

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/23/2008 Sample ID: WG272162-02

Instrument ID: HPMS9 Run Time: 09:26 Method: 8260B

File ID: 9M62078 Analyst: CMS QC Key: DOWWV2006

Workgroup (AAB#): WG272163 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	94.6	ug/kg	0.244	5.44	20	
m-,p-Xylene		100	110	ug/kg	0.736	10.2	20	
o-Xylene		50.0	50.7	ug/kg	0.696	1.47	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1103691
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376
Instrument ID: HPMS6
Workgroup (AAB#): WG272249

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	324738	551732	745710
Upper Limit	NA	NA	649476	1103464	1491420
Lower Limit	NA	NA	162369	275866	372855
L08050376-05	1.00	01	239124	438748	621238
WG272249-01	1.00	01	254083	469337	666240
WG272249-02	1.00	01	274129	484467	670999
WG272249-03	1.00	01	280719	494561	680305
WG272249-04	1.00	02	262212	476786	671958
WG272249-05	1.00	02	252801	465550	655206

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1104258
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376
Instrument ID: HPMS9
Workgroup (AAB#): WG272163

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050376-01	1.00	01	146995	353826	601558
L08050376-02	1.00	01	206385	431931	696354
L08050376-03	1.00	01	164370	362199	601658
L08050376-04	1.00	01	163615	363447	602769
WG272163-01	1.00	01	205523	449325	718990
WG272163-02	1.00	01	217923	458989	736115
WG272163-03	1.00	01	219334	453399	728714

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1104258
Report generated 05/28/2008 09:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376

Instrument ID: HPMS6

Workgroup (AAB#): WG272249

ICAL CCV Number: WG268581-08

CAL ID: HPMS6-17-APR-08

Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08050376-05	1.00	01	18.86	15.3	10.82
WG272249-01	1.00	01	18.86	15.3	10.83
WG272249-02	1.00	01	18.86	15.3	10.83
WG272249-03	1.00	01	18.86	15.3	10.82
WG272249-04	1.00	02	18.86	15.3	10.82
WG272249-05	1.00	02	18.86	15.3	10.83

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1104260

Report generated: 05/28/2008 09:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376

Instrument ID: HPMS9

Workgroup (AAB#): WG272163

ICAL CCV Number: WG270933-08

CAL ID: HPMS9-12-MAY-08

Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050376-01	1.00	01	15.21	12.23	8.38
L08050376-02	1.00	01	15.21	12.23	8.39
L08050376-03	1.00	01	15.2	12.23	8.39
L08050376-04	1.00	01	15.21	12.23	8.39
WG272163-01	1.00	01	15.21	12.23	8.39
WG272163-02	1.00	01	15.2	12.23	8.39
WG272163-03	1.00	01	15.21	12.23	8.39

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008

PDF File ID: 1104260

Report generated: 05/28/2008 09:43

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS SEMIVOLATILE ORGANICS

Microbac Login No: L08050376

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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 standard analyzed on 4/25/08 yielded %D beyond the acceptance limits for 2,4-dinitrophenol (biased high) and 3,3'-dichlorobenzidine (biased low). All other acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: MES

Approved: 28-MAY-08

LABORATORY REPORT

L08050376

06/02/08 13:03

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER

P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0133-SO01-051508	L08050376-01	8270C	1	16-MAY-08
0132-SO01-051508	L08050376-02	8270C	1	16-MAY-08
0132-SO02-051508	L08050376-03	8270C	1	16-MAY-08
0129-SO01-051508	L08050376-04	8270C	1	16-MAY-08

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-01**
Client ID: **0133-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/15/2008 11:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/21/2008 14:51**
File ID: **12M21830**
Percent Solid: **87.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	181	90.7
2,4,6-Trichlorophenol	88-06-2		U	181	90.7
2,4-Dichlorophenol	120-83-2		U	181	90.7
2,4-Dimethylphenol	105-67-9		U	181	90.7
2,4-Dinitrophenol	51-28-5		U	907	453
2,4-Dinitrotoluene	121-14-2		U	181	90.7
2,6-Dinitrotoluene	606-20-2		U	181	90.7
2-Chloronaphthalene	91-58-7		U	181	90.7
2-Chlorophenol	95-57-8		U	181	90.7
2-Methylnaphthalene	91-57-6		U	181	90.7
2-Methylphenol	95-48-7		U	181	90.7
2-Nitroaniline	88-74-4		U	907	453
2-Nitrophenol	88-75-5		U	181	90.7
3,3'-Dichlorobenzidine	91-94-1		U	363	181
3-,4-Methylphenol	106-44-5		U	181	90.7
3-Nitroaniline	99-09-2		U	907	453
4,6-Dinitro-2-methylphenol	534-52-1		U	907	453
4-Bromophenyl phenyl ether	101-55-3		U	181	90.7
4-Chloro-3-methylphenol	59-50-7		U	181	90.7
4-Chloroaniline	106-47-8		U	181	90.7
4-Chlorophenyl phenyl ether	7005-72-3		U	181	90.7
4-Nitroaniline	100-01-6		U	907	453
4-Nitrophenol	100-02-7		U	907	453
Acenaphthene	83-32-9		U	181	90.7
Acenaphthylene	208-96-8		U	181	90.7
Anthracene	120-12-7		U	181	90.7
Benzo(a)anthracene	56-55-3		U	181	90.7
Benzo(a)pyrene	50-32-8		U	181	90.7
Benzo(b)fluoranthene	205-99-2		U	181	90.7
Benzo(g,h,i)Perylene	191-24-2		U	181	90.7
Benzo(k)fluoranthene	207-08-9		U	181	90.7
Bis(2-Chloroethoxy)Methane	111-91-1		U	181	90.7
Bis(2-Chloroethyl)ether	111-44-4		U	181	90.7
bis(2-Chloroisopropyl)ether	39638-32-9		U	181	90.7
bis(2-Ethylhexyl)phthalate	117-81-7		U	181	90.7
Butyl benzyl phthalate	85-68-7		U	181	90.7
Carbazole	86-74-8		U	181	90.7
Chrysene	218-01-9		U	181	90.7
Dibenz(a,h)anthracene	53-70-3		U	181	90.7
Dibenzofuran	132-64-9		U	181	90.7
Diethyl phthalate	84-66-2		U	181	90.7
Dimethyl phthalate	131-11-3		U	181	90.7
Di-N-Butylphthalate	84-74-2		U	181	90.7
Di-n-octyl phthalate	117-84-0		U	181	90.7
Fluoranthene	206-44-0		U	181	90.7
Fluorene	86-73-7		U	181	90.7
Hexachlorobenzene	118-74-1		U	181	90.7
Hexachlorobutadiene	87-68-3		U	181	90.7
Hexachlorocyclopentadiene	77-47-4		U	181	90.7
Hexachloroethane	67-72-1		U	181	90.7
Indeno(1,2,3-cd)pyrene	193-39-5		U	181	90.7
Isophorone	78-59-1		U	181	90.7
Naphthalene	91-20-3		U	181	90.7
Nitrobenzene	98-95-3		U	181	90.7
N-Nitrosodiphenylamine	86-30-6		U	181	90.7
N-Nitrosodipropylamine	621-64-7		U	181	90.7
Pentachlorophenol	87-86-5		U	907	453
Phenanthrene	85-01-8		U	181	90.7
Phenol	108-95-2		U	181	90.7

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number:	L08050376-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0133-SO01-051508	Prep Method:	3545	Prep Date:	05/20/2008 08:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271945	Analyst:	MES	Run Date:	05/21/2008 14:51
Collect Date:	05/15/2008 11:35	Dilution:	1	File ID:	12M21830
Sample Tag:	01	Units:	ug/kg	Percent Solid:	87.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	181	90.7

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	31.1	19	122	
2-Fluorobiphenyl	58.0	30	115	
2-Fluorophenol	60.3	25	121	
Nitrobenzene-d5	55.8	23	120	
p-Terphenyl-d14	81.3	18	137	
Phenol-d5	63.4	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-02**
Client ID: **0132-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/15/2008 13:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/22/2008 12:53**
File ID: **12M21845**
Percent Solid: **91.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	178	88.9
2,4,6-Trichlorophenol	88-06-2		U	178	88.9
2,4-Dichlorophenol	120-83-2		U	178	88.9
2,4-Dimethylphenol	105-67-9		U	178	88.9
2,4-Dinitrophenol	51-28-5		U	889	444
2,4-Dinitrotoluene	121-14-2		U	178	88.9
2,6-Dinitrotoluene	606-20-2		U	178	88.9
2-Chloronaphthalene	91-58-7		U	178	88.9
2-Chlorophenol	95-57-8		U	178	88.9
2-Methylnaphthalene	91-57-6		U	178	88.9
2-Methylphenol	95-48-7		U	178	88.9
2-Nitroaniline	88-74-4		U	889	444
2-Nitrophenol	88-75-5		U	178	88.9
3,3'-Dichlorobenzidine	91-94-1		U	356	178
3-,4-Methylphenol	106-44-5		U	178	88.9
3-Nitroaniline	99-09-2		U	889	444
4,6-Dinitro-2-methylphenol	534-52-1		U	889	444
4-Bromophenyl phenyl ether	101-55-3		U	178	88.9
4-Chloro-3-methylphenol	59-50-7		U	178	88.9
4-Chloroaniline	106-47-8		U	178	88.9
4-Chlorophenyl phenyl ether	7005-72-3		U	178	88.9
4-Nitroaniline	100-01-6		U	889	444
4-Nitrophenol	100-02-7		U	889	444
Acenaphthene	83-32-9		U	178	88.9
Acenaphthylene	208-96-8		U	178	88.9
Anthracene	120-12-7		U	178	88.9
Benzo(a)anthracene	56-55-3		U	178	88.9
Benzo(a)pyrene	50-32-8		U	178	88.9
Benzo(b)fluoranthene	205-99-2		U	178	88.9
Benzo(g,h,i)Perylene	191-24-2		U	178	88.9
Benzo(k)fluoranthene	207-08-9		U	178	88.9
Bis(2-Chloroethoxy)Methane	111-91-1		U	178	88.9
Bis(2-Chloroethyl)ether	111-44-4		U	178	88.9
bis(2-Chloroisopropyl)ether	39638-32-9		U	178	88.9
bis(2-Ethylhexyl)phthalate	117-81-7	506		178	88.9
Butyl benzyl phthalate	85-68-7		U	178	88.9
Carbazole	86-74-8		U	178	88.9
Chrysene	218-01-9		U	178	88.9
Dibenz(a,h)anthracene	53-70-3		U	178	88.9
Dibenzofuran	132-64-9		U	178	88.9
Diethyl phthalate	84-66-2		U	178	88.9
Dimethyl phthalate	131-11-3		U	178	88.9
Di-N-Butylphthalate	84-74-2		U	178	88.9
Di-n-octyl phthalate	117-84-0		U	178	88.9
Fluoranthene	206-44-0		U	178	88.9
Fluorene	86-73-7		U	178	88.9
Hexachlorobenzene	118-74-1		U	178	88.9
Hexachlorobutadiene	87-68-3		U	178	88.9
Hexachlorocyclopentadiene	77-47-4		U	178	88.9
Hexachloroethane	67-72-1		U	178	88.9
Indeno(1,2,3-cd)pyrene	193-39-5		U	178	88.9
Isophorone	78-59-1		U	178	88.9
Naphthalene	91-20-3		U	178	88.9
Nitrobenzene	98-95-3		U	178	88.9
N-Nitrosodiphenylamine	86-30-6		U	178	88.9
N-Nitrosodipropylamine	621-64-7		U	178	88.9
Pentachlorophenol	87-86-5	1470		889	444
Phenanthrene	85-01-8		U	178	88.9
Phenol	108-95-2		U	178	88.9

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number:	L08050376-02	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0132-SO01-051508	Prep Method:	3545	Prep Date:	05/20/2008 08:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271945	Analyst:	MES	Run Date:	05/22/2008 12:53
Collect Date:	05/15/2008 13:10	Dilution:	1	File ID:	12M21845
Sample Tag:	01	Units:	ug/kg	Percent Solid:	91.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	178	88.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	78.3	19	122	
2-Fluorobiphenyl	75.6	30	115	
2-Fluorophenol	71.9	25	121	
Nitrobenzene-d5	75.1	23	120	
p-Terphenyl-d14	109	18	137	
Phenol-d5	78.8	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-03**
Client ID: **0132-SO02-051508**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/15/2008 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/21/2008 15:28**
File ID: **12M21831**
Percent Solid: **86.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	182	91.1
2,4,6-Trichlorophenol	88-06-2		U	182	91.1
2,4-Dichlorophenol	120-83-2		U	182	91.1
2,4-Dimethylphenol	105-67-9		U	182	91.1
2,4-Dinitrophenol	51-28-5		U	911	455
2,4-Dinitrotoluene	121-14-2		U	182	91.1
2,6-Dinitrotoluene	606-20-2		U	182	91.1
2-Chloronaphthalene	91-58-7		U	182	91.1
2-Chlorophenol	95-57-8		U	182	91.1
2-Methylnaphthalene	91-57-6		U	182	91.1
2-Methylphenol	95-48-7		U	182	91.1
2-Nitroaniline	88-74-4		U	911	455
2-Nitrophenol	88-75-5		U	182	91.1
3,3'-Dichlorobenzidine	91-94-1		U	364	182
3-,4-Methylphenol	106-44-5		U	182	91.1
3-Nitroaniline	99-09-2		U	911	455
4,6-Dinitro-2-methylphenol	534-52-1		U	911	455
4-Bromophenyl phenyl ether	101-55-3		U	182	91.1
4-Chloro-3-methylphenol	59-50-7		U	182	91.1
4-Chloroaniline	106-47-8		U	182	91.1
4-Chlorophenyl phenyl ether	7005-72-3		U	182	91.1
4-Nitroaniline	100-01-6		U	911	455
4-Nitrophenol	100-02-7		U	911	455
Acenaphthene	83-32-9		U	182	91.1
Acenaphthylene	208-96-8		U	182	91.1
Anthracene	120-12-7		U	182	91.1
Benzo(a)anthracene	56-55-3		U	182	91.1
Benzo(a)pyrene	50-32-8		U	182	91.1
Benzo(b)fluoranthene	205-99-2		U	182	91.1
Benzo(g,h,i)Perylene	191-24-2		U	182	91.1
Benzo(k)fluoranthene	207-08-9		U	182	91.1
Bis(2-Chloroethoxy)Methane	111-91-1		U	182	91.1
Bis(2-Chloroethyl)ether	111-44-4		U	182	91.1
bis(2-Chloroisopropyl)ether	39638-32-9		U	182	91.1
bis(2-Ethylhexyl)phthalate	117-81-7		U	182	91.1
Butyl benzyl phthalate	85-68-7		U	182	91.1
Carbazole	86-74-8		U	182	91.1
Chrysene	218-01-9		U	182	91.1
Dibenz(a,h)anthracene	53-70-3		U	182	91.1
Dibenzofuran	132-64-9		U	182	91.1
Diethyl phthalate	84-66-2		U	182	91.1
Dimethyl phthalate	131-11-3		U	182	91.1
Di-N-Butylphthalate	84-74-2		U	182	91.1
Di-n-octyl phthalate	117-84-0		U	182	91.1
Fluoranthene	206-44-0		U	182	91.1
Fluorene	86-73-7		U	182	91.1
Hexachlorobenzene	118-74-1		U	182	91.1
Hexachlorobutadiene	87-68-3		U	182	91.1
Hexachlorocyclopentadiene	77-47-4		U	182	91.1
Hexachloroethane	67-72-1		U	182	91.1
Indeno(1,2,3-cd)pyrene	193-39-5		U	182	91.1
Isophorone	78-59-1		U	182	91.1
Naphthalene	91-20-3		U	182	91.1
Nitrobenzene	98-95-3		U	182	91.1
N-Nitrosodiphenylamine	86-30-6		U	182	91.1
N-Nitrosodipropylamine	621-64-7		U	182	91.1
Pentachlorophenol	87-86-5		U	911	455
Phenanthrene	85-01-8		U	182	91.1
Phenol	108-95-2		U	182	91.1

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number:	L08050376-03	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	0132-SO02-051508	Prep Method:	3545	Prep Date:	05/20/2008 08:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	04/25/2008 17:11
Workgroup Number:	WG271945	Analyst:	MES	Run Date:	05/21/2008 15:28
Collect Date:	05/15/2008 13:20	Dilution:	1	File ID:	12M21831
Sample Tag:	01	Units:	ug/kg	Percent Solid:	86.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	182	91.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	19.4	19	122	
2-Fluorobiphenyl	34.8	30	115	
2-Fluorophenol	43.1	25	121	
Nitrobenzene-d5	41.0	23	120	
p-Terphenyl-d14	66.8	18	137	
Phenol-d5	45.1	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-04**
Client ID: **0129-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/15/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/21/2008 16:05**
File ID: **12M21832**
Percent Solid: **85.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	188	94.2
2,4,6-Trichlorophenol	88-06-2		U	188	94.2
2,4-Dichlorophenol	120-83-2		U	188	94.2
2,4-Dimethylphenol	105-67-9		U	188	94.2
2,4-Dinitrophenol	51-28-5		U	942	470
2,4-Dinitrotoluene	121-14-2		U	188	94.2
2,6-Dinitrotoluene	606-20-2		U	188	94.2
2-Chloronaphthalene	91-58-7		U	188	94.2
2-Chlorophenol	95-57-8		U	188	94.2
2-Methylnaphthalene	91-57-6		U	188	94.2
2-Methylphenol	95-48-7		U	188	94.2
2-Nitroaniline	88-74-4		U	942	470
2-Nitrophenol	88-75-5		U	188	94.2
3,3'-Dichlorobenzidine	91-94-1		U	377	188
3-,4-Methylphenol	106-44-5		U	188	94.2
3-Nitroaniline	99-09-2		U	942	470
4,6-Dinitro-2-methylphenol	534-52-1		U	942	470
4-Bromophenyl phenyl ether	101-55-3		U	188	94.2
4-Chloro-3-methylphenol	59-50-7		U	188	94.2
4-Chloroaniline	106-47-8		U	188	94.2
4-Chlorophenyl phenyl ether	7005-72-3		U	188	94.2
4-Nitroaniline	100-01-6		U	942	470
4-Nitrophenol	100-02-7		U	942	470
Acenaphthene	83-32-9		U	188	94.2
Acenaphthylene	208-96-8		U	188	94.2
Anthracene	120-12-7		U	188	94.2
Benzo(a)anthracene	56-55-3		U	188	94.2
Benzo(a)pyrene	50-32-8		U	188	94.2
Benzo(b)fluoranthene	205-99-2		U	188	94.2
Benzo(g,h,i)Perylene	191-24-2		U	188	94.2
Benzo(k)fluoranthene	207-08-9		U	188	94.2
Bis(2-Chloroethoxy)Methane	111-91-1		U	188	94.2
Bis(2-Chloroethyl)ether	111-44-4		U	188	94.2
bis(2-Chloroisopropyl)ether	39638-32-9		U	188	94.2
bis(2-Ethylhexyl)phthalate	117-81-7		U	188	94.2
Butyl benzyl phthalate	85-68-7		U	188	94.2
Carbazole	86-74-8		U	188	94.2
Chrysene	218-01-9		U	188	94.2
Dibenz(a,h)anthracene	53-70-3		U	188	94.2
Dibenzofuran	132-64-9		U	188	94.2
Diethyl phthalate	84-66-2		U	188	94.2
Dimethyl phthalate	131-11-3		U	188	94.2
Di-N-Butylphthalate	84-74-2		U	188	94.2
Di-n-octyl phthalate	117-84-0		U	188	94.2
Fluoranthene	206-44-0		U	188	94.2
Fluorene	86-73-7		U	188	94.2
Hexachlorobenzene	118-74-1		U	188	94.2
Hexachlorobutadiene	87-68-3		U	188	94.2
Hexachlorocyclopentadiene	77-47-4		U	188	94.2
Hexachloroethane	67-72-1		U	188	94.2
Indeno(1,2,3-cd)pyrene	193-39-5		U	188	94.2
Isophorone	78-59-1		U	188	94.2
Naphthalene	91-20-3		U	188	94.2
Nitrobenzene	98-95-3		U	188	94.2
N-Nitrosodiphenylamine	86-30-6		U	188	94.2
N-Nitrosodipropylamine	621-64-7		U	188	94.2
Pentachlorophenol	87-86-5		U	942	470
Phenanthrene	85-01-8		U	188	94.2
Phenol	108-95-2		U	188	94.2

Report Number: **L08050376**
Report Date : **June 2, 2008**

Sample Number: **L08050376-04**
Client ID: **0129-SO01-051508**
Matrix: **Soil**
Workgroup Number: **WG271945**
Collect Date: **05/15/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **05/20/2008 08:30**
Cal Date: **04/25/2008 17:11**
Run Date: **05/21/2008 16:05**
File ID: **12M21832**
Percent Solid: **85.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	188	94.2

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	34.0	19	122	
2-Fluorobiphenyl	51.6	30	115	
2-Fluorophenol	57.6	25	121	
Nitrobenzene-d5	54.7	23	120	
p-Terphenyl-d14	79.9	18	137	
Phenol-d5	60.4	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

R1454408

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Sample Extract Log Sheet

Microbac

Parameter: BNA501 SOP #: EXA5E01 Revision #: 6
Extraction Analyst(s): CPD TV/KD Analyst(s): CAT
Date/Time Extracted: 05-20 0830 Date TV/KD: 5-20-08
Spike/Surrogate Analyst: CPD Witness: KDD
Surrogate #: STD26068 Earliest Hold Date: 5/29
Spike #: A = STD26069 Spike #: B = —

Extraction Work Group WG 271710
Extract Relinquished By: CSH
Extract Received By & Date: CAA 5/21/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500µl		1mL	T				WG 271710-01
2	LCS							500µl		C				WG 1-02
3	LCSDUP					1		1		C				WG 1-03
4	05-0370-01	827-SPE				20.83g				C				
5	05-037601					20.82g				C				
6	-02					20.30g				O				
7	-03					20.98g				C				
8	-04					20.42g				C				
9	05-0382-01					20.26g				O				
10	05-0290-04					20.19g				C				ReExt in Hold
11														
12														
13														
14														
15														
16														
17														
18														
19						CAT 5-20-08								
20														
21														
22														
23														
24														

Methylene Chloride Lot #: 606E30
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: 601466
Reagent: — Lot #: —
Acid: 1% Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: COA12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Cheryl Flowers Date: 5-20-08

300

Extraction Notes For Volume # ~~39~~ CPO 5-26-2 Page # 39

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: N/A

Supervisor Review: _____ Date: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21387	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:29
2	12M21388	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 08:45
3	12M21389	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:06
4	12M21390	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 09:25
5	12M21391	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 09:58
6	12M21392	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 10:17
7	12M21393	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 11:21
8	12M21394	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 11:40
9	12M21395	WG269466-01 50PPM DFTPP STD	1	1	STD25193	04/25/08 12:44
10	12M21396	WG269466-02 50PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:03
11	12M21397	WG269466-03 3 PPM MEGAMIX STD	1	1	STD25568	04/25/08 13:39
12	12M21398	WG269466-04 10 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:14
13	12M21399	WG269466-05 15 PPM MEGAMIX STD	1	1	STD25568	04/25/08 14:51
14	12M21400	WG269466-06 25 PPM MEGAMIX STD	1	1	STD25568	04/25/08 15:26
15	12M21401	WG269466-07 80 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:01
16	12M21402	WG269466-08 100 PPM MEGAMIX STD	1	1	STD25568	04/25/08 16:36
17	12M21403	WG269466-09 120 PPM MEGAMIX STD	1	1	STD25568	04/25/08 17:11
18	12M21404	WG269466-10 50PPM BNA ALT SOURCE	1	1	STD24887	04/25/08 17:46
19	12M21405	WG269466-11 50PPM A9 ALT SOURCE	1	1	STD24013	04/25/08 18:21
20	12M21406	WG268690-02 BLANK EP0297 PG139	17	1		04/25/08 18:56
21	12M21407	L08040535-01 D1 50X SOIL	10	50		04/25/08 19:31
22	12M21408	L08040356-01 2X	1	2		04/25/08 20:06
23	12M21409	L08040356-03 D1 5X	1	5		04/25/08 20:41
24	12M21410	L08040356-03 D2 50X	1	50		04/25/08 21:16
25	12M21411	L08040356-04	1	1		04/25/08 21:51
26	12M21412	L08040356-04 D1 5X	1	5		04/25/08 22:27
27	12M21413	L08040398-01 TCLP	17	1		04/25/08 23:02
28	12M21414	WG268690-01 L08040398-02 TCLP	17	1		04/25/08 23:37
29	12M21415	WG268690-05 L08040398-02 MS TCLP	17	1		04/26/08 00:13
30	12M21416	L08040398-03 TCLP	17	1		04/26/08 00:48
31	12M21417	BAKE OUT	1	1		04/26/08 01:23
32	12M21418	BAKE OUT	1	1		04/26/08 01:58

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1 Approved: 27-APR-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 042508
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23870

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG269038,WG269123,WG269414

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
2				
	RR DFTPP failed. Retuned MS.			
4				
	Internals low-increased voltage-restarting.			
6				
	Hexachlorobutadiene high. Clipping column-change gold seal.			
8				
	Hexachlorobutadiene high-changing liner.			
22	X	10	Over Calibration Range	12,17,19,22,38
	tph is low. PHL is <10% due to SMI. Not reextracting.			
25				
	Do not report-IS fails.			
30	X	1	Missed Tune	

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 052108
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24257

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271778,WG271945,WG272012

Internal STD: COA13114 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21819	WG271895-01 50PPM DFTPP STD	1	1	STD25193	05/21/08 08:38
2	12M21820	WG271895-02 50PPM MEGAMIX STD	1	1	STD25568	05/21/08 08:57
3	12M21821	WG271710-01 BLANK EP0300 PG39	7	1		05/21/08 09:32
4	12M21822	WG271710-02 LCS EP0300 PG39	7	1		05/21/08 10:08
5	12M21823	WG271710-03 LCSDUP EP0300 PG39	7	1		05/21/08 10:43
6	12M21824	WG271417-03 LCSDUP EP0300 PG33	7	1		05/21/08 11:20
7	12M21825	L08050319-06 D1 10X SOIL	7	10	SOIL	05/21/08 11:55
8	12M21826	L08050319-03 20X SOIL	7	20	SOIL	05/21/08 12:31
9	12M21827	L08050370-01 SOIL	7	1	SOIL	05/21/08 13:07
10	12M21828	L08050290-04 RE SOIL	7	1	SOIL	05/21/08 13:41
11	12M21829	L08050382-01 2X SOIL	7	2	SOIL	05/21/08 14:16
12	12M21830	L08050376-01 SOIL	7	1	SOIL	05/21/08 14:51
13	12M21831	L08050376-03 SOIL	7	1	SOIL	05/21/08 15:28
14	12M21832	L08050376-04 SOIL	7	1	SOIL	05/21/08 16:05
15	12M21833	L08050376-02 2X SOIL	7	2	SOIL	05/21/08 16:40
16	12M21834	L08050382-01 D1 5X SOIL	7	5	SOIL	05/21/08 17:16
17	12M21835	WG271857-01 BLANK EP0300 PG45	7	1		05/21/08 17:52
18	12M21836	WG271857-02 LCS EP0300 PG45	7	1		05/21/08 18:27
19	12M21837	WG271857-03 LCSDUP EP0300 PG45	7	1		05/21/08 19:03
20	12M21838	L08050417-12 SOIL	7	1	SOIL	05/21/08 19:39
21	12M21839	L08050417-06 SOIL	7	1	SOIL	05/21/08 20:14
22	12M21840	BAKE OUT	1	1		05/21/08 20:49
23	12M21841	BAKE OUT	1	1		05/21/08 21:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
	69 is >20% but <25% high.			
9				
	NBZ is low.			
10				
	Does not confirm low SS.			
11	X	5	Over Calibration Range	21
15	X	1	Analyzed too dilute	

Page: 1 Approved: 22-MAY-08

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS12	Dataset:	052108	
Analyst1:	MES	Analyst2:	NA	
Method:	8270C	SOP:	MSS01	Rev: 14
Method:	625	SOP:	MSS02	Rev: 8

Maintenance Log ID: 24257

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271778,WG271945,WG272012

Internal STD: COA13114 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Approved: 22-MAY-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS12 Dataset: 052208
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24281

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG271945

Internal STD: COA13114 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	12M21842	WG272074-01 50PPM DFTPP STD	1	1	STD25193	05/22/08 11:43
2	12M21843	WG272074-01 50PPM DFTPP STD	1	1	STD25193	05/22/08 12:00
3	12M21844	WG272074-02 50PPM MEGAMIX STD	1	1	STD25568	05/22/08 12:18
4	12M21845	L08050376-02 SOIL	7	1	SOIL	05/22/08 12:53

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	DFTPP failed. Quicktune.			
3				
	Benzoic acid >20% but <40% low.			

Page: 1 Approved: 23-MAY-08

Microbac Laboratories Inc.

Data Checklist

Date: 25-APR-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 21849
Analytical Workgroups: L08040356,L08040535,L0804398

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
26-APR-2008

Secondary Reviewer:
27-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-27-2008 16:24:20

Microbac Laboratories Inc.

Data Checklist

Date: 21-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22324
Analytical Workgroups: L08050319,L08050417,L08050290,L08050370,L08050376,L08050382

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
22-MAY-2008

Secondary Reviewer:
22-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-22-2008 13:20:47

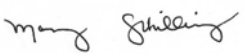
Microbac Laboratories Inc.

Data Checklist

Date: 22-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS12
Curve Workgroup: NA
Runlog ID: 22353
Analytical Workgroups: L08050376

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
23-MAY-2008



Secondary Reviewer:
23-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-23-2008 13:37:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG271945

Login Number: L08050376

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0132-SO02-051508	05/15/08	05/16/08	05/20/08	14	4.80	05/21/08	40	1.29	
0132-SO01-051508	05/15/08	05/16/08	05/20/08	14	4.81	05/22/08	40	2.18	
0133-SO01-051508	05/15/08	05/16/08	05/20/08	14	4.87	05/21/08	40	1.26	
0129-SO01-051508	05/15/08	05/16/08	05/20/08	14	4.78	05/21/08	40	1.32	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1102216
Report generated 05/23/2008 14:18

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050376
Instrument Id: HPMS12
Workgroup (AAB#): WG271945

Method: 8270
CAL ID: HPMS12-25-APR-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050376-01	1.00	01	31.1	58.0	60.3	55.8	81.3	63.4
L08050376-02	1.00	01	78.3	75.6	71.9	75.1	109	78.8
L08050376-03	1.00	01	19.4	34.8	43.1	41.0	66.8	45.1
L08050376-04	1.00	01	34.0	51.6	57.6	54.7	79.9	60.4
WG271710-01	1.00	01	57.3	55.4	56.2	50.2	81.0	56.8
WG271710-02	1.00	01	68.8	58.7	57.5	56.8	74.1	59.6
WG271710-03	1.00	01	80.7	53.9	52.1	53.2	97.1	52.9

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1100006
Report generated: 05/23/2008 14:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050376
Work Group: WG271945
Blank File ID: 12M21821
Blank Sample ID: WG271710-01
Prep Date: 05/20/08 08:30
Instrument ID: HPMS12
Analyzed Date: 05/21/08 09:32
Method: 8270C
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG271710-02	12M21822	05/21/08 10:08	01
LCS2	WG271710-03	12M21823	05/21/08 10:43	01
0133-SO01-051508	L08050376-01	12M21830	05/21/08 14:51	01
0132-SO02-051508	L08050376-03	12M21831	05/21/08 15:28	01
0129-SO01-051508	L08050376-04	12M21832	05/21/08 16:05	01
0132-SO01-051508	L08050376-02	12M21845	05/22/08 12:53	01

Report Name: BLANK_SUMMARY
PDF File ID: 1102217
Report generated 05/23/2008 14:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050376 Prep Date:05/20/08 08:30 Sample ID:WG271710-01
Instrument ID:HPMS12 Run Date:05/21/08 09:32 Prep Method:3545
File ID:12M21821 Analyst:MES Method:8270C
Workgroup (AAB#):WG271945 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1100004
23-MAY-2008 14:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050376 Prep Date: 05/20/08 08:30 Sample ID: WG271710-01
Instrument ID: HPMS12 Run Date: 05/21/08 09:32 Prep Method: 3545
File ID: 12M21821 Analyst: MES Method: 8270C
Workgroup (AAB#): WG271945 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS12-25-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	57.3	19	-	122	PASS
2-Fluorobiphenyl	55.4	30	-	115	PASS
2-Fluorophenol	56.2	25	-	121	PASS
Nitrobenzene-d5	50.2	23	-	120	PASS
p-Terphenyl-d14	81.0	18	-	137	PASS
Phenol-d5	56.8	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1100004
23-MAY-2008 14:18

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271945 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271710-02 LCS File ID: 12M21822 Run Date: 05/21/2008 10:08
Sample ID: WG271710-03 LCS2 File ID: 12M21823 Run Date: 05/21/2008 10:43

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1680	67.2	2500	1660	66.5	1.06	49 - 125	30	
2,4,6-Trichlorophenol	2500	1670	66.7	2500	1600	64.2	3.85	43 - 125	30	
2,4-Dichlorophenol	2500	1310	52.4	2500	1170	47.0	10.9	45 - 125	30	
2,4-Dimethylphenol	2500	1330	53.1	2500	1240	49.7	6.61	32 - 125	30	
2,4-Dinitrophenol	2500	2140	85.6	2500	2590	104	19.2	25 - 132	30	
2,4-Dinitrotoluene	2500	1900	75.9	2500	2320	92.8	20.0	48 - 125	30	
2,6-Dinitrotoluene	2500	1710	68.2	2500	1900	76.1	10.9	48 - 125	30	
2-Chloronaphthalene	2500	1290	51.5	2500	1200	48.1	6.83	45 - 125	30	
2-Chlorophenol	2500	1410	56.3	2500	1290	51.7	8.39	44 - 125	30	
2-Methylnaphthalene	2500	1270	50.7	2500	1240	49.5	2.44	47 - 125	30	
2-Methylphenol	2500	1370	54.7	2500	1250	49.9	9.31	40 - 125	30	
2-Nitroaniline	2500	1950	78.0	2500	2080	83.2	6.34	44 - 125	30	
2-Nitrophenol	2500	1380	55.4	2500	1260	50.5	9.23	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1700	67.9	2500	2240	89.5	27.5	20 - 128	30	
3-,4-Methylphenol	2500	1570	62.9	2500	1410	56.5	10.7	50 - 120	30	
3-Nitroaniline	2500	1680	67.3	2500	2150	85.9	24.3	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	2180	87.2	2500	2810	112	25.1	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1450	58.0	2500	1710	68.3	16.4	46 - 125	30	
4-Chloro-3-methylphenol	2500	1360	54.6	2500	1300	52.1	4.59	46 - 125	30	
4-Chloroaniline	2500	1210	48.3	2500	1170	46.9	2.99	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1540	61.6	2500	1580	63.2	2.44	47 - 125	30	
4-Nitroaniline	2500	1680	67.3	2500	2150	85.9	24.3	34 - 125	30	
4-Nitrophenol	2500	1900	75.9	2500	2410	96.5	24.0	25 - 138	30	
Acenaphthene	2500	1550	62.2	2500	1310	52.4	17.0	46 - 125	30	
Acenaphthylene	2500	1540	61.8	2500	1460	58.4	5.56	44 - 125	30	
Anthracene	2500	1720	68.8	2500	2250	89.8	26.5	53 - 125	30	
Benzo(a)anthracene	2500	1710	68.5	2500	2220	88.8	25.8	52 - 125	30	
Benzo(a)pyrene	2500	1560	62.5	2500	2040	81.8	26.6	50 - 125	30	
Benzo(b)fluoranthene	2500	1600	64.0	2500	2090	83.7	26.7	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1470	58.7	2500	1800	72.1	20.6	38 - 126	30	
Benzo(k)fluoranthene	2500	1600	64.0	2500	2060	82.2	24.9	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	1320	52.8	2500	1240	49.5	6.59	43 - 125	30	
Bis(2-Chloroethyl)ether	2500	1400	56.0	2500	1230	49.2	12.8	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1480	59.2	2500	1320	52.9	11.3	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1800	72.1	2500	2350	93.9	26.3	47 - 127	30	
Butyl benzyl phthalate	2500	1830	73.3	2500	2390	95.8	26.6	49 - 125	30	
Carbazole	2500	1830	73.3	2500	2380	95.1	25.9	40 - 135	30	
Chrysene	2500	1770	70.8	2500	2280	91.4	25.4	53 - 125	30	
Dibenz(a,h)anthracene	2500	1420	56.6	2500	1740	69.6	20.6	41 - 125	30	
Dibenzofuran	2500	1560	62.2	2500	1550	61.9	0.512	51 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1100005
Report generated: 05/23/2008 14:18

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050376 Analyst: MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG271945 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG271710-02 LCS File ID: 12M21822 Run Date: 05/21/2008 10:08
Sample ID: WG271710-03 LCS2 File ID: 12M21823 Run Date: 05/21/2008 10:43

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1780	71.3	2500	2160	86.2	18.9	50 - 125	30	
Dimethyl phthalate	2500	1730	69.3	2500	1930	77.1	10.7	49 - 125	30	
Di-N-Butylphthalate	2500	1790	71.7	2500	2380	95.3	28.2	56 - 125	30	
Di-n-octyl phthalate	2500	1620	64.8	2500	2100	83.9	25.8	41 - 132	30	
Fluoranthene	2500	1880	75.3	2500	2450	97.8	26.0	54 - 125	30	
Fluorene	2500	1570	63.0	2500	1680	67.2	6.52	49 - 125	30	
Hexachlorobenzene	2500	1780	71.3	2500	2210	88.3	21.3	47 - 125	30	
Hexachlorobutadiene	2500	1490	59.7	2500	1360	54.4	9.39	40 - 125	30	
Hexachlorocyclopentadiene	2500	1250	50.1	2500	1160	46.2	8.02	10 - 150	30	
Hexachloroethane	2500	1400	55.9	2500	1280	51.2	8.83	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1470	58.9	2500	1840	73.7	22.3	38 - 125	30	
Isophorone	2500	1430	57.2	2500	1340	53.5	6.66	43 - 125	30	
Naphthalene	2500	1230	49.2	2500	1180	47.3	3.99	40 - 125	30	
Nitrobenzene	2500	1390	55.4	2500	1320	52.8	4.93	41 - 125	30	
N-Nitrosodiphenylamine	2500	1410	56.4	2500	1700	67.9	18.5	49 - 125	30	
N-Nitrosodipropylamine	2500	1350	54.0	2500	1270	51.0	5.79	40 - 125	30	
Pentachlorophenol	2500	1710	68.3	2500	2250	89.9	27.3	25 - 125	30	
Phenanthrene	2500	1670	66.9	2500	2150	86.1	25.1	50 - 125	30	
Phenol	2500	1440	57.4	2500	1310	52.4	9.19	39 - 125	30	
Pyrene	2500	1770	70.6	2500	2320	92.9	27.2	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	57.5	52.1	25 - 121	PASS
Phenol-d5	59.6	52.9	24 - 113	PASS
Nitrobenzene-d5	56.8	53.2	23 - 120	PASS
2-Fluorobiphenyl	58.7	53.9	30 - 115	PASS
2,4,6-Tribromophenol	68.8	80.7	19 - 122	PASS
p-Terphenyl-d14	74.1	97.1	18 - 137	PASS

* FAILS %REC LIMIT
# FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1100005
Report generated: 05/23/2008 14:18

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050376
Instrument: HPMS12
Analyst: MES
Workgroup: WG269466

Tune ID: WG269466-01
Run Date: 04/25/2008
Run Time: 12:44
File ID: 12M21395
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.7	68129	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	42.6	73016	PASS
70.0	69.0	0	2.00	0.823	601	PASS
127	198	40.0	60.0	47.2	80904	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	171541	PASS
199	198	5.00	9.00	7.11	12203	PASS
275	198	10.0	30.0	28.8	49362	PASS
365	198	1.00	100	4.52	7750	PASS
441	443	0.0100	100	81.0	16290	PASS
442	198	40.0	100	60.4	103578	PASS
443	442	17.0	23.0	19.4	20104	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG269466-02	STD-CCV	01	04/25/2008 13:03	
WG269466-03	STD	01	04/25/2008 13:39	
WG269466-04	STD	01	04/25/2008 14:14	
WG269466-05	STD	01	04/25/2008 14:51	
WG269466-06	STD	01	04/25/2008 15:26	
WG269466-07	STD	01	04/25/2008 16:01	
WG269466-08	STD	01	04/25/2008 16:36	
WG269466-09	STD	01	04/25/2008 17:11	
WG269466-10	SSCV	01	04/25/2008 17:46	
WG269466-11	SSCV	01	04/25/2008 18:21	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1102220
Report generated 05/23/2008 14:19

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050376
Instrument: HPMS12
Analyst: MES
Workgroup: WG271895

Tune ID: WG271895-01
Run Date: 05/21/2008
Run Time: 08:38
File ID: 12M21819
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	38.3	60850	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.7	64796	PASS
70.0	69.0	0	2.00	0.474	307	PASS
127	198	40.0	60.0	44.0	70057	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	159082	PASS
199	198	5.00	9.00	6.83	10864	PASS
275	198	10.0	30.0	29.0	46202	PASS
365	198	1.00	100	5.08	8087	PASS
441	443	0.0100	100	80.7	15139	PASS
442	198	40.0	100	59.9	95338	PASS
443	442	17.0	23.0	19.7	18770	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG271895-02	CCV	01	05/21/2008 08:57	
WG271710-01	BLANK	01	05/21/2008 09:32	
WG271710-02	LCS	01	05/21/2008 10:08	
WG271710-03	LCS2	01	05/21/2008 10:43	
L08050376-01	0133-SO01-051508	01	05/21/2008 14:51	
L08050376-03	0132-SO02-051508	01	05/21/2008 15:28	
L08050376-04	0129-SO01-051508	01	05/21/2008 16:05	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1102220
Report generated 05/23/2008 14:19

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050376
Instrument: HPMS12
Analyst: MES
Workgroup: WG272074

Tune ID: WG272074-01
Run Date: 05/22/2008
Run Time: 12:00
File ID: 12M21843
Cal ID: HPMS12 - 25-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	40.0	54069	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.5	54848	PASS
70.0	69.0	0	2.00	0.478	262	PASS
127	198	40.0	60.0	45.0	60960	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	135320	PASS
199	198	5.00	9.00	6.86	9285	PASS
275	198	10.0	30.0	29.4	39808	PASS
365	198	1.00	100	5.42	7339	PASS
441	443	0.0100	100	83.5	12828	PASS
442	198	40.0	100	60.0	81165	PASS
443	442	17.0	23.0	18.9	15362	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272074-02	CCV	01	05/22/2008 12:18	
L08050376-02	0132-SO01-051508	01	05/22/2008 12:53	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1102220
Report generated 05/23/2008 14:19

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050376 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.4184	12.6		
2,4-Dichlorophenol	CCC	0.3488	10.2		
2-Nitrophenol	CCC	0.1857	15.3	0.999	
4-Chloro-3-Methylphenol	CCC	0.3870	7.61		
Acenaphthene	CCC	1.193	10.8		
Benzo[a]pyrene	CCC	1.217	8.97		
Di-n-Octyl Phthalate	CCC	1.218	15.7	0.998	
Fluoranthene	CCC	1.397	7.10		
Hexachlorobutadiene	CCC	0.3276	1.94		
Pentachlorophenol	CCC	0.1518	27.4	0.996	
Phenol	CCC	1.661	4.60		
n-Nitrosodiphenylamine	CCC	0.6676	7.80		
2,4-Dinitrophenol	SPCC	0.1449	38.6		0.999
4-Nitrophenol	SPCC	0.3133	6.27		
Hexachlorocyclopentadiene	SPCC	0.4039	22.4	0.999	
n-Nitrosodipropylamine	SPCC	1.032	3.83		
2,4,5-Trichlorophenol		0.4429	11.9		
2,4-Dimethylphenol		0.3697	10.3		
2,4-Dinitrotoluene		0.3792	14.5		
2,6-Dinitrotoluene		0.2941	9.67		
2-Chloronaphthalene		1.315	3.32		
2-Chlorophenol		1.236	5.81		
2-Methylnaphthalene		0.7859	6.94		
2-Methylphenol		1.020	7.51		
2-Nitroaniline		0.3601	4.92		
3,3'-Dichlorobenzidine		0.3636	16.5	0.999	
3-,4-Methylphenol		1.298	7.04		
3-Nitroaniline		0.3089	8.98		
4,6-Dinitro-2-Methylphenol		0.1347	28.2		0.999
4-Bromophenyl Phenyl Ether		0.2811	7.81		
4-Chloroaniline		0.5825	6.96		
4-Chlorophenyl Phenyl Ether		0.8612	3.69		
4-Nitroaniline		0.3089	8.98		
Acenaphthylene		1.775	6.34		
Anthracene		1.126	9.03		
Benzo[a]anthracene		1.309	5.38		
Benzo[b]fluoranthene		1.326	8.38		
Benzo[ghi]perylene		1.106	9.48		
Benzo[k]fluoranthene		1.269	5.91		
Butyl Benzyl Phthalate		0.5165	8.89		
Carbazole		0.9738	11.7		
Chrysene		1.186	5.12		
Di-n-Butyl Phthalate		1.286	8.69		
Dibenz[ah]anthracene		1.102	24.4	0.999	
Dibenzofuran		1.704	4.05		

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050376 **Instrument ID:** HPMS12
Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11
ICAL Workgroup: WG269466 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.411	3.07		
Dimethylphthalate		1.337	3.14		
Fluorene		1.450	6.38		
Hexachlorobenzene		0.2639	8.27		
Hexachloroethane		0.6253	4.95		
Indeno[1,2,3-cd]pyrene		1.329	12.2		
Isophorone		0.7407	4.75		
Naphthalene		1.124	6.22		
Nitrobenzene		0.4858	5.44		
Phenanthrene		1.147	7.41		
Pyrene		1.286	5.08		
bis(2-Chloroethoxy)methane		0.4267	3.78		
bis(2-Chloroethyl)ether		0.8758	4.88		
bis(2-Chloroisopropyl)ether		1.246	2.66		
bis(2-Ethylhexyl)phthalate		0.6818	12.8		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	136367.000	0.4388	3.00	5918.00000	0.3142	10.0	23239.0000	0.3862
2,4-Dichlorophenol	50.0	158754.000	0.3588	3.00	7927.00000	0.2918	10.0	26920.0000	0.3173
2-Nitrophenol	50.0	86369.0000	0.1952	3.00	3432.00000	0.1263	10.0	14327.0000	0.1689
4-Chloro-3-Methylphenol	50.0	178838.000	0.4042	3.00	8857.00000	0.3260	10.0	30942.0000	0.3647
Acenaphthene	50.0	375627.000	1.209	3.00	18689.0000	0.9923	10.0	64516.0000	1.072
Benzo[a]pyrene	50.0	697864.000	1.374	3.00	32607.0000	1.036	10.0	123380.000	1.125
Di-n-Octyl Phthalate	50.0	749327.000	1.475	3.00	29699.0000	0.9436	10.0	111236.000	1.014
Fluoranthene	50.0	810612.000	1.296	3.00	42795.0000	1.234	10.0	154789.000	1.366
Hexachlorobutadiene	50.0	148516.000	0.3356	3.00	8617.00000	0.3172	10.0	28017.0000	0.3302
Pentachlorophenol	50.0	92466.0000	0.1479	NA	NA	NA	10.0	9878.00000	0.08720
Phenol	50.0	222209.000	1.683	3.00	12237.0000	1.552	10.0	38761.0000	1.581
n-Nitrosodiphenylamine	50.0	392845.000	0.6283	3.00	20330.0000	0.5860	10.0	72097.0000	0.6364
2,4-Dinitrophenol	50.0	39482.0000	0.1271	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	108610.000	0.3495	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	141345.000	0.4548	3.00	4274.00000	0.2269	10.0	19516.0000	0.3243
n-Nitrosodipropylamine	50.0	145764.000	1.104	3.00	7583.00000	0.9620	10.0	25176.0000	1.027
2,4,5-Trichlorophenol	50.0	144110.000	0.4637	3.00	6389.00000	0.3392	10.0	24278.0000	0.4035
2,4-Dimethylphenol	50.0	162609.000	0.3675	3.00	8024.00000	0.2954	10.0	28316.0000	0.3337
2,4-Dinitrotoluene	50.0	121879.000	0.3922	3.00	5034.00000	0.2673	10.0	20446.0000	0.3398
2,6-Dinitrotoluene	50.0	94251.0000	0.3033	3.00	4342.00000	0.2306	10.0	16831.0000	0.2797
2-Chloronaphthalene	50.0	407576.000	1.312	3.00	23579.0000	1.252	10.0	77192.0000	1.283
2-Chlorophenol	50.0	163796.000	1.241	3.00	8755.00000	1.111	10.0	29242.0000	1.193
2-Methylnaphthalene	50.0	340978.000	0.7706	3.00	19262.0000	0.7091	10.0	63484.0000	0.7482
2-Methylphenol	50.0	139033.000	1.053	3.00	7022.00000	0.8908	10.0	23075.0000	0.9411
2-Nitroaniline	50.0	122870.000	0.3954	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	252297.000	0.4242	3.00	9541.00000	0.2593	10.0	38536.0000	0.3037
3-,4-Methylphenol	50.0	174305.000	1.320	3.00	9115.00000	1.156	10.0	29102.0000	1.187
3-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	71843.0000	0.1149	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	160280.000	0.2563	3.00	8943.00000	0.2578	10.0	29851.0000	0.2635
4-Chloroaniline	50.0	256808.000	0.5804	3.00	14696.0000	0.5410	10.0	44482.0000	0.5243
4-Chlorophenyl Phenyl Ether	50.0	268008.000	0.8624	3.00	15432.0000	0.8194	10.0	49083.0000	0.8157
4-Nitroaniline	50.0	90495.0000	0.2912	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	556722.000	1.792	3.00	30007.0000	1.593	10.0	99847.0000	1.659
Anthracene	50.0	659857.000	1.055	3.00	33177.0000	0.9564	10.0	122454.000	1.081
Benzo[a]anthracene	50.0	856517.000	1.440	3.00	44797.0000	1.217	10.0	155466.000	1.225
Benzo[b]fluoranthene	50.0	744041.000	1.465	3.00	35475.0000	1.127	10.0	137001.000	1.249
Benzo[ghi]perylene	50.0	634281.000	1.249	3.00	28793.0000	0.9148	10.0	110138.000	1.004
Benzo[k]fluoranthene	50.0	720586.000	1.418	3.00	36969.0000	1.175	10.0	135918.000	1.239
Butyl Benzyl Phthalate	50.0	353129.000	0.5938	3.00	16206.0000	0.4404	10.0	60984.0000	0.4806
Carbazole	50.0	583195.000	0.9327	3.00	27605.0000	0.7957	10.0	97064.0000	0.8567
Chrysene	50.0	780963.000	1.313	3.00	41677.0000	1.133	10.0	142455.000	1.123

INT_CAL - Modified 03/06/2008
PDF File ID: 1102218
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-02			WG269466-03			WG269466-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	785864.000	1.257	3.00	37116.0000	1.070	10.0	136904.000	1.208
Dibenz[ah]anthracene	50.0	668824.000	1.317	3.00	15272.0000	0.4852	10.0	111770.000	1.019
Dibenzofuran	50.0	530596.000	1.707	3.00	29342.0000	1.558	10.0	100820.000	1.676
Diethylphthalate	50.0	452344.000	1.456	3.00	24871.0000	1.321	10.0	83818.0000	1.393
Dimethylphthalate	50.0	420899.000	1.354	3.00	23726.0000	1.260	10.0	78749.0000	1.309
Fluorene	50.0	454404.000	1.462	3.00	24326.0000	1.292	10.0	83747.0000	1.392
Hexachlorobenzene	50.0	147756.000	0.2363	3.00	8064.00000	0.2325	10.0	29006.0000	0.2560
Hexachloroethane	50.0	84931.0000	0.6433	3.00	4341.00000	0.5507	10.0	15476.0000	0.6312
Indeno[1,2,3-cd]pyrene	50.0	771409.000	1.519	3.00	32705.0000	1.039	10.0	128253.000	1.169
Isophorone	50.0	356238.000	0.8051	3.00	18428.0000	0.6784	10.0	61327.0000	0.7228
Naphthalene	50.0	496713.000	1.123	3.00	27895.0000	1.027	10.0	89924.0000	1.060
Nitrobenzene	50.0	230519.000	0.5210	3.00	12396.0000	0.4563	10.0	43364.0000	0.5111
Phenanthrene	50.0	673951.000	1.078	3.00	36064.0000	1.040	10.0	122363.000	1.080
Pyrene	50.0	858213.000	1.443	3.00	45464.0000	1.236	10.0	159485.000	1.257
bis(2-Chloroethoxy)methane	50.0	196099.000	0.4432	3.00	10594.0000	0.3900	10.0	36560.0000	0.4309
bis(2-Chloroethyl)ether	50.0	120076.000	0.9095	3.00	7560.00000	0.9591	10.0	21099.0000	0.8605
bis(2-Chloroisopropyl)ether	50.0	168561.000	1.277	3.00	9772.00000	1.240	10.0	31239.0000	1.274
bis(2-Ethylhexyl)phthalate	50.0	473337.000	0.7959	3.00	19278.0000	0.5239	10.0	77603.0000	0.6115

INT_CAL - Modified 03/06/2008
PDF File ID: 1102218
Report generated 05/23/2008 14:18

Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376
Analytical Method: 8270C
Instrument ID: HPMS12
Initial Calibration Date: 25-APR-08 17:11
Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	37239.0000	0.3892	25.0	98728.0000	0.4309	80.0	279987.000	0.4502
2,4-Dichlorophenol	15.0	43596.0000	0.3229	25.0	114408.000	0.3521	80.0	319185.000	0.3681
2-Nitrophenol	15.0	24186.0000	0.1791	25.0	61605.0000	0.1896	80.0	175038.000	0.2019
4-Chloro-3-Methylphenol	15.0	52064.0000	0.3856	25.0	127250.000	0.3916	80.0	344375.000	0.3972
Acenaphthene	15.0	108002.000	1.129	25.0	270752.000	1.182	80.0	782768.000	1.259
Benzo[a]pyrene	15.0	211381.000	1.155	25.0	535905.000	1.219	80.0	1534154.00	1.240
Di-n-Octyl Phthalate	15.0	196277.000	1.073	25.0	533784.000	1.214	80.0	1600340.00	1.293
Fluoranthene	15.0	249915.000	1.365	25.0	615392.000	1.436	80.0	1671315.00	1.481
Hexachlorobutadiene	15.0	45100.0000	0.3340	25.0	107508.000	0.3309	80.0	278572.000	0.3213
Pentachlorophenol	15.0	20553.0000	0.1123	25.0	62391.0000	0.1456	80.0	200096.000	0.1773
Phenol	15.0	63090.0000	1.595	25.0	160868.000	1.683	80.0	427551.000	1.710
n-Nitrosodiphenylamine	15.0	118973.000	0.6498	25.0	290222.000	0.6772	80.0	791950.000	0.7018
2,4-Dinitrophenol	15.0	5805.00000	0.06070	25.0	25500.0000	0.1113	80.0	104015.000	0.1673
4-Nitrophenol	15.0	28275.0000	0.2955	25.0	68859.0000	0.3005	80.0	190640.000	0.3065
Hexachlorocyclopentadiene	15.0	35338.0000	0.3694	25.0	99354.0000	0.4336	80.0	288927.000	0.4646
n-Nitrosodipropylamine	15.0	40475.0000	1.023	25.0	100435.000	1.051	80.0	258884.000	1.036
2,4,5-Trichlorophenol	15.0	40465.0000	0.4230	25.0	104764.000	0.4572	80.0	293599.000	0.4721
2,4-Dimethylphenol	15.0	51431.0000	0.3809	25.0	130875.000	0.4028	80.0	324020.000	0.3737
2,4-Dinitrotoluene	15.0	35097.0000	0.3669	25.0	91689.0000	0.4001	80.0	253364.000	0.4074
2,6-Dinitrotoluene	15.0	28223.0000	0.2950	25.0	69700.0000	0.3042	80.0	190771.000	0.3068
2-Chloronaphthalene	15.0	124189.000	1.298	25.0	302662.000	1.321	80.0	817846.000	1.315
2-Chlorophenol	15.0	46771.0000	1.182	25.0	119193.000	1.247	80.0	321563.000	1.286
2-Methylnaphthalene	15.0	100887.000	0.7471	25.0	253922.000	0.7815	80.0	705363.000	0.8136
2-Methylphenol	15.0	38574.0000	0.9750	25.0	99916.0000	1.045	80.0	265250.000	1.061
2-Nitroaniline	15.0	33956.0000	0.3549	25.0	82121.0000	0.3584	80.0	218250.000	0.3509
3,3'-Dichlorobenzidine	15.0	67580.0000	0.3290	25.0	185573.000	0.3758	80.0	538090.000	0.3943
3-,4-Methylphenol	15.0	50298.0000	1.271	25.0	124501.000	1.302	80.0	338084.000	1.352
3-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
4,6-Dinitro-2-Methylphenol	15.0	14678.0000	0.08020	25.0	48640.0000	0.1135	80.0	172873.000	0.1532
4-Bromophenyl Phenyl Ether	15.0	49966.0000	0.2729	25.0	122137.000	0.2850	80.0	332607.000	0.2947
4-Chloroaniline	15.0	75575.0000	0.5597	25.0	190168.000	0.5853	80.0	521274.000	0.6012
4-Chlorophenyl Phenyl Ether	15.0	82230.0000	0.8595	25.0	200371.000	0.8745	80.0	537412.000	0.8642
4-Nitroaniline	15.0	26366.0000	0.2756	25.0	67223.0000	0.2934	80.0	195965.000	0.3151
Acenaphthylene	15.0	164778.000	1.722	25.0	413595.000	1.805	80.0	1135611.00	1.826
Anthracene	15.0	197050.000	1.076	25.0	491615.000	1.147	80.0	1366240.00	1.211
Benzo[a]anthracene	15.0	264299.000	1.287	25.0	650627.000	1.318	80.0	1796598.00	1.317
Benzo[b]fluoranthene	15.0	235779.000	1.289	25.0	590199.000	1.343	80.0	1595206.00	1.289
Benzo[ghi]perylene	15.0	196842.000	1.076	25.0	499944.000	1.137	80.0	1411076.00	1.140
Benzo[k]fluoranthene	15.0	224378.000	1.226	25.0	553580.000	1.259	80.0	1553835.00	1.256
Butyl Benzyl Phthalate	15.0	102371.000	0.4984	25.0	253670.000	0.5137	80.0	713612.000	0.5229
Carbazole	15.0	171716.000	0.9379	25.0	428714.000	1.000	80.0	1208224.00	1.071
Chrysene	15.0	235937.000	1.149	25.0	579470.000	1.174	80.0	1618976.00	1.186

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-05			WG269466-06			WG269466-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	232437.000	1.270	25.0	563217.000	1.314	80.0	1547150.00	1.371
Dibenz[ah]anthracene	15.0	200539.000	1.096	25.0	505358.000	1.150	80.0	1505496.00	1.217
Dibenzofuran	15.0	162303.000	1.697	25.0	394959.000	1.724	80.0	1074465.00	1.728
Diethylphthalate	15.0	137877.000	1.441	25.0	328909.000	1.435	80.0	868238.000	1.396
Dimethylphthalate	15.0	127130.000	1.329	25.0	312530.000	1.364	80.0	830445.000	1.335
Fluorene	15.0	134267.000	1.403	25.0	330753.000	1.444	80.0	920136.000	1.480
Hexachlorobenzene	15.0	48740.0000	0.2662	25.0	113654.000	0.2652	80.0	311857.000	0.2764
Hexachloroethane	15.0	25151.0000	0.6357	25.0	61542.0000	0.6437	80.0	158937.000	0.6357
Indeno[1,2,3-cd]pyrene	15.0	230092.000	1.257	25.0	599639.000	1.364	80.0	1731397.00	1.399
Isophorone	15.0	99381.0000	0.7360	25.0	245328.000	0.7550	80.0	642420.000	0.7410
Naphthalene	15.0	146165.000	1.082	25.0	361079.000	1.111	80.0	1006802.00	1.161
Nitrobenzene	15.0	69269.0000	0.5130	25.0	159759.000	0.4917	80.0	402450.000	0.4642
Phenanthrene	15.0	202627.000	1.107	25.0	493338.000	1.151	80.0	1370037.00	1.214
Pyrene	15.0	259537.000	1.264	25.0	637423.000	1.291	80.0	1725768.00	1.265
bis(2-Chloroethoxy)methane	15.0	57561.0000	0.4263	25.0	138912.000	0.4275	80.0	369360.000	0.4260
bis(2-Chloroethyl)ether	15.0	35230.0000	0.8905	25.0	82944.0000	0.8676	80.0	210681.000	0.8427
bis(2-Chloroisopropyl)ether	15.0	50752.0000	1.283	25.0	121163.000	1.267	80.0	303941.000	1.216
bis(2-Ethylhexyl)phthalate	15.0	131164.000	0.6386	25.0	339497.000	0.6876	80.0	972062.000	0.7123

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	377204.000	0.4596	120	482469.000	0.4781
2,4-Dichlorophenol	100	440715.000	0.3829	120	570611.000	0.3965
2-Nitrophenol	100	239517.000	0.2081	120	311803.000	0.2166
4-Chloro-3-Methylphenol	100	469454.000	0.4079	120	602506.000	0.4186
Acenaphthene	100	1079901.00	1.316	120	1396579.00	1.384
Benzo[a]pyrene	100	2086082.00	1.270	120	2632858.00	1.319
Di-n-Octyl Phthalate	100	2184046.00	1.329	120	2800418.00	1.403
Fluoranthene	100	2215701.00	1.492	120	2755326.00	1.509
Hexachlorobutadiene	100	373087.000	0.3242	120	470703.000	0.3270
Pentachlorophenol	100	283307.000	0.1908	120	367345.000	0.2012
Phenol	100	580096.000	1.707	120	749079.000	1.774
n-Nitrosodiphenylamine	100	1066689.00	0.7182	120	1356134.00	0.7428
2,4-Dinitrophenol	100	157333.000	0.1917	120	213452.000	0.2115
4-Nitrophenol	100	252092.000	0.3072	120	323723.000	0.3208
Hexachlorocyclopentadiene	100	387575.000	0.4723	120	489911.000	0.4855
n-Nitrosodipropylamine	100	344175.000	1.013	120	438122.000	1.037
2,4,5-Trichlorophenol	100	394373.000	0.4806	120	508384.000	0.5038
2,4-Dimethylphenol	100	456542.000	0.3967	120	585962.000	0.4071
2,4-Dinitrotoluene	100	344032.000	0.4192	120	444879.000	0.4409
2,6-Dinitrotoluene	100	255107.000	0.3109	120	325195.000	0.3223
2-Chloronaphthalene	100	1099288.00	1.340	120	1413873.00	1.401
2-Chlorophenol	100	439835.000	1.294	120	563310.000	1.334
2-Methylnaphthalene	100	970956.000	0.8437	120	1256929.00	0.8733
2-Methylphenol	100	365442.000	1.076	120	472314.000	1.118
2-Nitroaniline	100	284645.000	0.3468	120	357321.000	0.3541
3,3'-Dichlorobenzidine	100	733235.000	0.4024	120	940493.000	0.4198
3-,4-Methylphenol	100	465577.000	1.370	120	602765.000	1.427
3-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
4,6-Dinitro-2-Methylphenol	100	246356.000	0.1659	120	329033.000	0.1802
4-Bromophenyl Phenyl Ether	100	451448.000	0.3040	120	574210.000	0.3145
4-Chloroaniline	100	718485.000	0.6243	120	926485.000	0.6437
4-Chlorophenyl Phenyl Ether	100	723357.000	0.8814	120	920890.000	0.9126
4-Nitroaniline	100	268149.000	0.3267	120	354827.000	0.3516
Acenaphthylene	100	1529219.00	1.863	120	1960028.00	1.942
Anthracene	100	1822066.00	1.227	120	2287957.00	1.253
Benzo[a]anthracene	100	2405433.00	1.320	120	3012702.00	1.345
Benzo[b]fluoranthene	100	2336636.00	1.422	120	2840065.00	1.423
Benzo[ghi]perylene	100	1892297.00	1.152	120	2342145.00	1.173
Benzo[k]fluoranthene	100	2043397.00	1.244	120	2665882.00	1.335
Butyl Benzyl Phthalate	100	970519.000	0.5326	120	1230823.00	0.5494
Carbazole	100	1604741.00	1.081	120	2037702.00	1.116
Chrysene	100	2170926.00	1.191	120	2734443.00	1.221

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050376 **Instrument ID:** HPMS12

Analytical Method: 8270C **Initial Calibration Date:** 25-APR-08 17:11

Column ID: F

Analyte	WG269466-08			WG269466-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2062132.00	1.389	120	2572387.00	1.409
Dibenz[ah]anthracene	100	2048294.00	1.247	120	2575721.00	1.290
Dibenzofuran	100	1433623.00	1.747	120	1812183.00	1.796
Diethylphthalate	100	1153162.00	1.405	120	1453341.00	1.440
Dimethylphthalate	100	1103240.00	1.344	120	1416244.00	1.404
Fluorene	100	1257267.00	1.532	120	1611047.00	1.597
Hexachlorobenzene	100	420081.000	0.2828	120	539403.000	0.2955
Hexachloroethane	100	211552.000	0.6226	120	270148.000	0.6397
Indeno[1,2,3-cd]pyrene	100	2335820.00	1.422	120	2927052.00	1.466
Isophorone	100	848363.000	0.7371	120	1079868.00	0.7503
Naphthalene	100	1372849.00	1.193	120	1779526.00	1.236
Nitrobenzene	100	535447.000	0.4652	120	667562.000	0.4638
Phenanthrene	100	1836910.00	1.237	120	2321323.00	1.272
Pyrene	100	2295342.00	1.260	120	2860075.00	1.277
bis(2-Chloroethoxy)methane	100	495133.000	0.4302	120	633036.000	0.4398
bis(2-Chloroethyl)ether	100	281115.000	0.8273	120	358453.000	0.8488
bis(2-Chloroisopropyl)ether	100	407669.000	1.200	120	512593.000	1.214
bis(2-Ethylhexyl)phthalate	100	1331118.00	0.7305	120	1689210.00	0.7541

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	53700	ug/L	0.449	7.40	25	
2,4-Dichlorophenol	CCC	50000	49600	ug/L	0.346	0.900	25	
4-Chloro-3-Methylphenol	CCC	50000	50500	ug/L	0.391	1.00	25	
Acenaphthene	CCC	50000	49200	ug/L	1.17	1.60	25	
Benzo[a]pyrene	CCC	50000	56600	ug/L	1.38	13.2	25	
Di-n-Octyl Phthalate	CCC	50000	51100	ug/L	1.36	2.20	25	
Fluoranthene	CCC	50000	57200	ug/L	1.60	14.5	25	
Hexachlorobutadiene	CCC	50000	54300	ug/L	0.356	8.60	25	
n-Nitrosodiphenylamine	CCC	50000	51600	ug/L	0.689	3.20	25	
Pentachlorophenol	CCC	50000	57800	ug/L	0.205	15.5	25	
Phenol	CCC	50000	49100	ug/L	1.63	1.80	25	
2,4-Dinitrophenol	SPCC	50000	62900	ug/L	0.186	25.8	25	*
4-Nitrophenol	SPCC	50000	44900	ug/L	0.282	10.2	25	
Hexachlorocyclopentadiene	SPCC	50000	47600	ug/L	0.437	4.80	25	
n-Nitrosodipropylamine	SPCC	50000	44200	ug/L	0.911	11.7	25	
2,4,5-Trichlorophenol		50000	53500	ug/L	0.474	7.00	25	
2,4-Dimethylphenol		50000	47100	ug/L	0.349	5.70	25	
2,4-Dinitrotoluene		50000	57500	ug/L	0.436	15.0	25	
2,6-Dinitrotoluene		50000	54700	ug/L	0.322	9.30	25	
2-Chloronaphthalene		50000	46100	ug/L	1.21	7.70	25	
2-Chlorophenol		50000	49800	ug/L	1.23	0.400	25	
2-Methylnaphthalene		50000	53500	ug/L	0.840	6.90	25	
2-Nitroaniline		50000	55100	ug/L	0.397	10.3	25	
3,3'-Dichlorobenzidine		50000	31900	ug/L	0.249	36.2	25	*
3-,4-Methylphenol		50000	48300	ug/L	1.25	3.50	25	
3-Nitroaniline		50000	47800	ug/L	0.295	4.40	25	
4,6-Dinitro-2-Methylphenol		50000	61500	ug/L	0.165	23.1	25	
4-Bromophenyl Phenyl Ether		50000	44700	ug/L	0.251	10.6	25	
4-Chloroaniline		50000	51100	ug/L	0.596	2.30	25	
4-Chlorophenyl Phenyl Ether		50000	48600	ug/L	0.837	2.90	25	
4-Nitroaniline		50000	47800	ug/L	0.295	4.40	25	
Acenaphthylene		50000	55700	ug/L	1.98	11.3	25	
Anthracene		50000	56000	ug/L	1.26	12.1	25	
Benzo[a]anthracene		50000	54000	ug/L	1.41	7.90	25	
Benzo[b]fluoranthene		50000	54100	ug/L	1.43	8.20	25	
Benzo[ghi]perylene		50000	55700	ug/L	1.23	11.4	25	
Benzo[k]fluoranthene		50000	55600	ug/L	1.41	11.3	25	
bis(2-Chloroethoxy)methane		50000	48400	ug/L	0.413	3.30	25	
bis(2-Chloroethyl)ether		50000	43500	ug/L	0.763	12.9	25	
bis(2-Chloroisopropyl)ether		50000	45300	ug/L	1.13	9.40	25	
bis(2-Ethylhexyl)phthalate		50000	53800	ug/L	0.733	7.50	25	
Butyl Benzyl Phthalate		50000	54000	ug/L	0.558	8.00	25	

ALT - Modified 09/06/2007
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050376 Run Date: 04/25/2008 Sample ID: WG269466-10
Instrument ID: HPMS12 Run Time: 17:46 Method: 8270C
File ID: 12M21404 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG269466 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Carbazole		50000	53800	ug/L	1.05	7.60	25	
Chrysene		50000	53500	ug/L	1.27	6.90	25	
Dibenz[ah]anthracene		50000	51200	ug/L	1.27	2.30	25	
Dibenzofuran		50000	53400	ug/L	1.82	6.70	25	
Diethylphthalate		50000	47500	ug/L	1.34	5.00	25	
Dimethylphthalate		50000	50400	ug/L	1.35	0.800	25	
Di-n-Butyl Phthalate		50000	48100	ug/L	1.24	3.80	25	
Fluorene		50000	54300	ug/L	1.58	8.70	25	
Hexachlorobenzene		50000	56800	ug/L	0.300	13.6	25	
Hexachloroethane		50000	49300	ug/L	0.617	1.40	25	
Indeno[1,2,3-cd]pyrene		50000	55300	ug/L	1.47	10.7	25	
Isophorone		50000	55400	ug/L	0.820	10.7	25	
Naphthalene		50000	53000	ug/L	1.19	6.10	25	
Nitrobenzene		50000	47600	ug/L	0.463	4.80	25	
Phenanthrene		50000	54500	ug/L	1.25	8.90	25	
Pyrene		50000	55800	ug/L	1.44	11.6	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/21/2008 Sample ID: WG271895-02
Instrument ID: HPMS12 Run Time: 08:57 Method: 8270C
File ID: 12M21820 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	54300	ug/L	0.454	8.59	20	
2,4-Dichlorophenol	CCC	50000	53300	ug/L	0.372	6.65	20	
2-Nitrophenol	CCC	50000	51500	ug/L	0.210	3.00	20	
4-Chloro-3-Methylphenol	CCC	50000	53000	ug/L	0.410	6.06	20	
Acenaphthene	CCC	50000	54300	ug/L	1.30	8.63	20	
Benzo[a]pyrene	CCC	50000	57400	ug/L	1.40	14.9	20	
Di-n-Octyl Phthalate	CCC	50000	57200	ug/L	1.54	14.4	20	
Fluoranthene	CCC	50000	48500	ug/L	1.36	2.98	20	
Hexachlorobutadiene	CCC	50000	54100	ug/L	0.354	8.11	20	
n-Nitrosodiphenylamine	CCC	50000	48700	ug/L	0.650	2.65	20	
Pentachlorophenol	CCC	50000	43400	ug/L	0.146	13.1	20	
Phenol	CCC	50000	53200	ug/L	1.77	6.37	20	
1,4-Dichlorobenzene	CCC	50000	51300	ug/L	1.57	2.69	25	
2,4-Dinitrophenol	SPCC	50000	61300	ug/L	0.179	22.6	25	
4-Nitrophenol	SPCC	50000	58400	ug/L	0.366	16.8	25	
Hexachlorocyclopentadiene	SPCC	50000	50700	ug/L	0.468	1.48	25	
n-Nitrosodipropylamine	SPCC	50000	53200	ug/L	1.10	6.37	25	
2,4,5-Trichlorophenol		50000	54600	ug/L	0.484	9.28	25	
2,4-Dimethylphenol		50000	50200	ug/L	0.371	0.389	25	
2,4-Dinitrotoluene		50000	53700	ug/L	0.407	7.40	25	
2,6-Dinitrotoluene		50000	52300	ug/L	0.308	4.60	25	
2-Chloronaphthalene		50000	52100	ug/L	1.37	4.17	25	
2-Chlorophenol		50000	52400	ug/L	1.29	4.73	25	
2-Methylnaphthalene		50000	50000	ug/L	0.787	0.0866	25	
2-Methylphenol		50000	52300	ug/L	1.07	4.67	25	
2-Nitroaniline		50000	57900	ug/L	0.417	15.9	25	
3,3'-Dichlorobenzidine		50000	53400	ug/L	0.430	6.89	25	
3-,4-Methylphenol		50000	50600	ug/L	1.31	1.22	25	
3-Nitroaniline		50000	51500	ug/L	0.318	3.08	25	
4,6-Dinitro-2-Methylphenol		50000	60000	ug/L	0.160	20.0	25	
4-Bromophenyl Phenyl Ether		50000	48900	ug/L	0.275	2.21	25	
4-Chloroaniline		50000	51900	ug/L	0.605	3.83	25	
4-Chlorophenyl Phenyl Ether		50000	49600	ug/L	0.854	0.821	25	
4-Nitroaniline		50000	51500	ug/L	0.318	3.08	25	
Acenaphthylene		50000	51300	ug/L	1.82	2.66	25	
Anthracene		50000	48900	ug/L	1.10	2.11	25	
Benzo[a]anthracene		50000	54700	ug/L	1.43	9.33	25	
Benzo[b]fluoranthene		50000	56800	ug/L	1.51	13.7	25	
Benzo[ghi]perylene		50000	51600	ug/L	1.14	3.28	25	
Benzo[k]fluoranthene		50000	57300	ug/L	1.45	14.5	25	
bis(2-Chloroethoxy)methane		50000	50200	ug/L	0.428	0.383	25	
bis(2-Chloroethyl)ether		50000	51400	ug/L	0.900	2.78	25	

CCV - Modified 03/05/2008
PDF File ID: 1101746
Report generated 05/23/2008 14:19

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/21/2008 Sample ID: WG271895-02
Instrument ID: HPMS12 Run Time: 08:57 Method: 8270C
File ID: 12M21820 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	52400	ug/L	1.31	4.72	25	
bis(2-Ethylhexyl)phthalate		50000	55100	ug/L	0.752	10.3	25	
Butyl Benzyl Phthalate		50000	55700	ug/L	0.575	11.3	25	
Carbazole		50000	49700	ug/L	0.967	0.698	25	
Chrysene		50000	54500	ug/L	1.29	9.03	25	
Dibenz[ah]anthracene		50000	49600	ug/L	1.23	0.750	25	
Dibenzofuran		50000	50500	ug/L	1.72	1.08	25	
Diethylphthalate		50000	51700	ug/L	1.46	3.47	25	
Dimethylphthalate		50000	51800	ug/L	1.38	3.51	25	
Di-n-Butyl Phthalate		50000	48600	ug/L	1.25	2.89	25	
Fluorene		50000	52300	ug/L	1.52	4.56	25	
Hexachlorobenzene		50000	49000	ug/L	0.259	1.91	25	
Hexachloroethane		50000	52400	ug/L	0.656	4.83	25	
Indeno[1,2,3-cd]pyrene		50000	53400	ug/L	1.42	6.75	25	
Isophorone		50000	52900	ug/L	0.784	5.89	25	
Naphthalene		50000	51000	ug/L	1.15	2.09	25	
Nitrobenzene		50000	54500	ug/L	0.530	9.06	25	
Phenanthrene		50000	48300	ug/L	1.11	3.40	25	
Pyrene		50000	55400	ug/L	1.43	10.9	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1101746
Report generated 05/23/2008 14:19

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/22/2008 Sample ID: WG272074-02
Instrument ID: HPMS12 Run Time: 12:18 Method: 8270C
File ID: 12M21844 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52900	ug/L	0.442	5.72	20	
2,4-Dichlorophenol	CCC	50000	54100	ug/L	0.377	8.18	20	
2-Nitrophenol	CCC	50000	50500	ug/L	0.206	1.04	20	
4-Chloro-3-Methylphenol	CCC	50000	52500	ug/L	0.406	4.95	20	
Acenaphthene	CCC	50000	53000	ug/L	1.27	6.05	20	
Benzo[a]pyrene	CCC	50000	57200	ug/L	1.39	14.5	20	
Di-n-Octyl Phthalate	CCC	50000	55000	ug/L	1.47	10.1	20	
Fluoranthene	CCC	50000	50100	ug/L	1.40	0.153	20	
Hexachlorobutadiene	CCC	50000	55400	ug/L	0.363	10.8	20	
n-Nitrosodiphenylamine	CCC	50000	48300	ug/L	0.645	3.39	20	
Pentachlorophenol	CCC	50000	41100	ug/L	0.136	17.7	20	
Phenol	CCC	50000	52700	ug/L	1.75	5.39	20	
1,4-Dichlorobenzene	CCC	50000	50400	ug/L	1.54	0.727	25	
2,4-Dinitrophenol	SPCC	50000	56200	ug/L	0.157	12.4	25	
4-Nitrophenol	SPCC	50000	57400	ug/L	0.360	14.8	25	
Hexachlorocyclopentadiene	SPCC	50000	51200	ug/L	0.472	2.40	25	
n-Nitrosodipropylamine	SPCC	50000	54700	ug/L	1.13	9.37	25	
2,4,5-Trichlorophenol		50000	54000	ug/L	0.479	8.04	25	
2,4-Dimethylphenol		50000	49200	ug/L	0.364	1.68	25	
2,4-Dinitrotoluene		50000	52000	ug/L	0.395	4.08	25	
2,6-Dinitrotoluene		50000	51400	ug/L	0.302	2.83	25	
2-Chloronaphthalene		50000	50200	ug/L	1.32	0.315	25	
2-Chlorophenol		50000	51300	ug/L	1.27	2.61	25	
2-Methylnaphthalene		50000	50000	ug/L	0.787	0.0934	25	
2-Methylphenol		50000	53200	ug/L	1.09	6.45	25	
2-Nitroaniline		50000	58600	ug/L	0.422	17.2	25	
3,3'-Dichlorobenzidine		50000	52900	ug/L	0.425	5.85	25	
3-,4-Methylphenol		50000	50300	ug/L	1.31	0.549	25	
3-Nitroaniline		50000	51400	ug/L	0.318	2.81	25	
4,6-Dinitro-2-Methylphenol		50000	56900	ug/L	0.148	13.8	25	
4-Bromophenyl Phenyl Ether		50000	50000	ug/L	0.281	0.00160	25	
4-Chloroaniline		50000	51600	ug/L	0.601	3.21	25	
4-Chlorophenyl Phenyl Ether		50000	50600	ug/L	0.872	1.26	25	
4-Nitroaniline		50000	51400	ug/L	0.318	2.81	25	
Acenaphthylene		50000	49500	ug/L	1.76	0.910	25	
Anthracene		50000	48600	ug/L	1.09	2.83	25	
Benzo[a]anthracene		50000	53800	ug/L	1.41	7.64	25	
Benzo[b]fluoranthene		50000	55500	ug/L	1.47	11.1	25	
Benzo[ghi]perylene		50000	58600	ug/L	1.29	17.1	25	
Benzo[k]fluoranthene		50000	55700	ug/L	1.41	11.3	25	
bis(2-Chloroethoxy)methane		50000	51000	ug/L	0.436	2.05	25	
bis(2-Chloroethyl)ether		50000	53900	ug/L	0.944	7.80	25	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050376 Run Date: 05/22/2008 Sample ID: WG272074-02
Instrument ID: HPMS12 Run Time: 12:18 Method: 8270C
File ID: 12M21844 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG271945 Cal ID: HPMS12 - 25-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	54400	ug/L	1.36	8.89	25	
bis(2-Ethylhexyl)phthalate		50000	58100	ug/L	0.792	16.1	25	
Butyl Benzyl Phthalate		50000	55000	ug/L	0.568	10.1	25	
Carbazole		50000	49100	ug/L	0.956	1.83	25	
Chrysene		50000	53900	ug/L	1.28	7.73	25	
Dibenz[ah]anthracene		50000	56500	ug/L	1.41	13.1	25	
Dibenzofuran		50000	50100	ug/L	1.71	0.169	25	
Diethylphthalate		50000	52400	ug/L	1.48	4.83	25	
Dimethylphthalate		50000	53300	ug/L	1.43	6.65	25	
Di-n-Butyl Phthalate		50000	51400	ug/L	1.32	2.85	25	
Fluorene		50000	51900	ug/L	1.50	3.71	25	
Hexachlorobenzene		50000	48900	ug/L	0.258	2.15	25	
Hexachloroethane		50000	54100	ug/L	0.677	8.26	25	
Indeno[1,2,3-cd]pyrene		50000	60400	ug/L	1.61	20.8	25	
Isophorone		50000	54300	ug/L	0.805	8.63	25	
Naphthalene		50000	50600	ug/L	1.14	1.25	25	
Nitrobenzene		50000	55500	ug/L	0.539	10.9	25	
Phenanthrene		50000	48000	ug/L	1.10	4.08	25	
Pyrene		50000	48800	ug/L	1.26	2.42	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Report generated 05/23/2008 14:19

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376
Instrument ID: HPMS12
Workgroup (AAB#): WG271945

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	105623	248605	475757	353994	406408	500222
Upper Limit	NA	NA	211246	497210	951514	707988	812816	1000444
Lower Limit	NA	NA	52812	124303	237879	176997	203204	250111
L08050376-01	1.00	01	88881	196749	391635	301769	335406	358734
L08050376-02	1.00	01	119541	249041	618230	393702	645752	470371
L08050376-03	1.00	01	85864	185817	377595	289505	318432	344052
L08050376-04	1.00	01	113129	242596	497109	372559	418949	444913
WG271710-01	1.00	01	133301	271140	546166	437327	500427	497415
WG271710-02	1.00	01	94386	197909	437846	334839	403462	369998
WG271710-03	1.00	01	98438	205665	439839	340357	394356	373521

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1102221
Report generated 05/23/2008 14:20

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050376
Instrument ID: HPMS12
Workgroup (AAB#): WG271945

ICAL CCV Number: WG269466-02
CAL ID: HPMS12-25-APR-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG269466-02	NA	NA	9.63	13.31	17.91	11.24	20.8	14.94
Upper Limit	NA	NA	10.13	13.81	18.41	11.74	21.3	15.44
Lower Limit	NA	NA	9.13	12.81	17.41	10.74	20.3	14.44
L08050376-01	1.00	01	9.599	13.275	17.858	11.202	20.701	14.899
L08050376-02	1.00	01	9.594	13.274	17.858	11.202	20.7	14.899
L08050376-03	1.00	01	9.594	13.275	17.858	11.202	20.7	14.899
L08050376-04	1.00	01	9.599	13.275	17.858	11.202	20.7	14.899
WG271710-01	1.00	01	9.599	13.275	17.858	11.202	20.701	14.899
WG271710-02	1.00	01	9.599	13.275	17.858	11.202	20.7	14.899
WG271710-03	1.00	01	9.599	13.275	17.859	11.202	20.701	14.899

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1102222
Report generated: 05/23/2008 14:20

2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271579 Analyst:JDH ADT(on):05/18/2008 14:52
Method:D2216-90 Instrument:BAL001 ADT(off):05/19/2008 08:46
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050290-01	1.29	24.09	21.71			89.56	
L08050290-02	1.3	32.3	26.49			81.26	
L08050290-03	1.27	17.13	14.98			86.44	
L08050290-04	1.28	22.06	18.65			83.59	
L08050290-05	1.28	18.62	15.9			84.31	
L08050290-06	1.28	17.83	14.36			79.03	
L08050290-07	1.28	19.76	17.42			87.34	
L08050295-01	1.28	26.86	22.96			84.75	
L08050295-02	1.28	26.86	22.96			84.75	
L08050295-03	1.28	26.86	22.96			84.75	
L08050295-04	1.28	26.86	22.96			84.75	
L08050295-05	1.29	27.76	23.61			84.32	
L08050309-02	1.3	15.48	3.68			16.78	
L08050309-04	1.29	17.41	8.02			41.75	
L08050319-01	1.29	22.41	19.22			84.90	
L08050319-02	1.29	18.81	16.57			87.21	
L08050319-03	1.28	19.08	16			82.70	
L08050319-04	1.28	16.36	15.06			91.38	
L08050319-05	1.29	18.28	14.85			79.81	
L08050319-06	1.28	26.71	23.51			87.42	
L08050321-03	1.3	27.02	21.69			79.28	
L08050321-05	1.28	34.95	27.94			79.18	
L08050321-07	1.29	28.58	23.07			79.81	
L08050321-09	1.3	26.23	21.63			81.55	
L08050321-11	1.31	19.99	16.23			79.87	
L08050321-13	1.31	21.47	17.74			81.50	
L08050321-15	1.32	38.36	29.88			77.11	
L08050322-01	1.29	18	14.25			77.56	
L08050322-02	1.3	16.92	10.77			60.63	
L08050322-03	1.29	25.63	19.43			74.53	
L08050333-01	1.29	19.29	17.19			88.33	
L08050333-02	1.3	21.68	19.9			91.27	
L08050333-03	1.31	20.32	17.43			84.80	
L08050333-04	1.29	21.26	16.01			73.71	
L08050333-05	1.29	22.6	17.57			76.40	
L08050333-06	1.29	22.01	17.54			78.43	
L08050333-07	1.3	34.41	23.15			65.99	
L08050333-08	1.28	26.42	20.88			77.96	
L08050333-09	1.28	20.66	16.71			79.62	
L08050333-10	1.28	20.66	16.71			79.62	
L08050333-11	1.28	20.66	16.71			79.62	
L08050333-12	1.27	20.28	17.74			86.64	
L08050333-13	1.28	23.26	19.1			81.07	

PERCENT_SOLIDS - Modified 04/24/2008
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Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG271579 Analyst:JDH ADT(on):05/18/2008 14:52
Method:D2216-90 Instrument:BAL001 ADT(off):05/19/2008 08:46
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050334-01	1.28	42.13	33.73			79.44	
L08050370-01	1.28	29.97	24.39			80.55	
L08050376-01	1.28	43.66	38.33			87.42	
L08050376-02	1.29	27.77	25.5			91.43	
L08050376-03	1.29	41.94	36.4			86.37	
L08050376-04	1.29	23.27	20.15			85.81	
L08050380-01	1.28	25.46	20.75			80.52	
L08050380-02	1.28	24.91	20.76			82.44	
L08050380-03	1.28	16.19	13.33			80.82	
L08050380-04	1.28	30.29	22.29			72.42	
L08050380-05	1.29	21.3	16.99			78.46	
L08050380-06	1.28	17.76	13.44			73.79	
L08050380-07	1.29	22.95	19.03			81.90	
L08050380-08	1.28	22.04	16.13			71.53	
L08050380-09	1.29	23.27	19.42			82.48	
L08050380-10	1.28	18.22	15.08			81.46	
L08050380-11	1.29	26.03	21.4			81.29	
L08050380-12	1.29	18.8	15.69			82.24	
L08050380-13	1.29	15.11	12.64			82.13	
L08050380-14	1.3	20.07	16.61			81.57	
L08050380-15	1.29	20.62	17.07			81.63	
L08050380-16	1.27	25.29	20.69			80.85	
L08050380-17	1.29	23.55	19.43			81.49	
L08050380-18	1.28	19.24	15.94			81.63	
L08050380-19	1.28	26.41	21.86			81.89	
L08050380-20	1.28	28.27	22.11			77.18	
L08050380-21	1.29	24.92	20.66			81.97	
L08050382-01	1.28	23.73	20.74			86.68	
WG271579-01	1.28	42.13	33.73			79.44	20.56
WG271579-02	1.29	28.5	24.17			84.09	15.91
WG271579-03	1.29	18	14.25			77.56	22.44
WG271579-04	1.31	19.48	15.21			76.50	23.50
WG271579-05	1.3	16.92	10.77			60.63	39.37
WG271579-06	1.29	25.29	16.76			64.46	35.54

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1096118
Report generated: 05/19/2008 08:59

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
June 5, 2008

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
AM – ALISON J. MILLER	AML – ANTHONY M. LONG	ASP – AARON S. PETRIE
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS
CAH – CHARLES A. HALL	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLW – CHARISSA L. WINTERS	CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	CTB – CHRIS T. BUCINA	DDE – DEBRA D. ELLIOTT
DEL – DON E. LIGHTFRITZ	DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DR – DEANNA ROBERTS	DSF – DEBRA S. FREDERICK
ECL – ERIC C. LAWSON	ED – EMILY E. DECKER	EDH – ETHAN D. MORRIS
ERE – ERIN R. ELDER	FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR
HJR – HOLLY J. REED	JBK – JEREMY B. KINNEY	JC – JOHN L. CONLEY
JDH – JUSTIN D. HESSON	JKP – JACQUELINE K. PARSONS	JKT – JANE K. THOMPSON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES	JYH – JI Y. HU
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KJW – KATIE J. WIEFERICH
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
NPM – NATHANIEL P. MILLER	RAH – ROY A. HALSTEAD	RB – ROBERT BUCHANAN
REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL
SDH – SHANA D. HINYARD	SDL – SHELLY D. LENT	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE	TDH – TRICIA D. HUCK
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WTD – WADE T. DELONG	

Microbac Laboratories Inc.
List of Valid Qualifiers
June 05, 2008

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 82107

156 Starlite Drive
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Emil Filc

Contact Phone #: 919-875-4311

Turn Around Requirements: Standard

Location: TC

Project ID: TC Divestiture

PO #: 928102

Sampler (print): Patrick Kish

Signature: [signature]

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other _____

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC's	SVOC's	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
0133-S.01-051508			05/15/08	1135	S	4		X	X		
0132-S.01-051508			05/15/08	1310	↓	4		X	X		
0132-S.02-051508			5/15/08	1320	↓	4		X	X		
0129-S.01-051508			5/15/08	1340	↓	4		X	X		
TB01-~~S~~ 051508			5/15/08	1700	W	2		X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	5/16/08	1700			5-16-08	1200	Dan Lightfritz

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
Dan Lightfritz	5-16-08	1330	Robin K[illegible]	5-16-08	1330	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

Microbac Laboratories, Inc.

SAMPLE RECEIPT FORM

158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	Chzm Hill
Workorder Number:	B 15295
Date Received:	5-16-08
Delivered by:	( ) Fedx ( ) UPS ( ) Client (✓) Courier **Time:** 1330
Opened by:	RLK
IR Temp Gun:	(✓) D ( ) G
Logged by:	RLK L 0805-0376

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
1835	4	—	82107, 82097	encores

Inspection Checklist	**Y**	**N**	**NA**	**Discrepancy ID**
Were shipping coolers sealed?			✓	
Were custody seals intact?			✓	
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓			
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)			✓	
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?			✓	
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative:
Client/Company:
Person Contacted:
Date contacted:

Resolution/other comments:

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050376
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050376-05	459404	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	ORG4	19-MAY-2008 09:58	MRT	ERE
3	STORE	ORG4	A2	03-JUN-2008 11:22	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	ORG4	19-MAY-2008 09:58	MRT	ERE
3	STORE	ORG4	A2	03-JUN-2008 11:23	RLK	MRT

Samplenum	Container ID	Products
L08050376-02	459396	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	

Samplenum	Container ID	Products
L08050376-03	459398	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050376
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050376-01	459394	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAY-2008 14:24	RLK	
2	ANALYZ	W1	WET	18-MAY-2008 09:34	DIH	ERE
3	PREP	W1	EXT	20-MAY-2008 06:48	CEB	ERE
4	STORE	EXT	W1	20-MAY-2008 09:40	ERE	CEB
5	STORE	W1	A2	30-MAY-2008 09:00	ERE	ERE

Samplenum	Container ID	Products
L08050376-02	459397	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAY-2008 14:24	RLK	
2	ANALYZ	W1	WET	18-MAY-2008 09:34	DIH	ERE
3	PREP	W1	EXT	20-MAY-2008 06:48	CEB	ERE
4	STORE	EXT	W1	20-MAY-2008 09:40	ERE	CEB
5	STORE	W1	A2	30-MAY-2008 09:00	ERE	ERE

Samplenum	Container ID	Products
L08050376-03	459400	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAY-2008 14:24	RLK	
2	ANALYZ	W1	WET	18-MAY-2008 09:34	DIH	ERE
3	PREP	W1	EXT	20-MAY-2008 06:48	CEB	ERE
4	STORE	EXT	W1	20-MAY-2008 09:40	ERE	CEB
5	STORE	W1	A2	30-MAY-2008 09:00	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050376
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050376-01	459392	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Samplenum	Container ID	Products
L08050376-04	459401	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050376
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050376-01	459393	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	

Samplenum	Container ID	Products
L08050376-02	459395	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	
2	ANALYZ	V1	VOAY	16-MAY-2008 14:38	CMS	JKT
3	STORE	VOAY	A2	30-MAY-2008 13:23	RLK	MRT

Samplenum	Container ID	Products
L08050376-04	459403	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	16-MAY-2008 14:24	RLK	
2	ANALYZ	W1	WET	18-MAY-2008 09:34	DIH	ERE
3	PREP	W1	EXT	20-MAY-2008 06:48	CEB	ERE
4	STORE	EXT	W1	20-MAY-2008 09:40	ERE	CEB
5	STORE	W1	A2	30-MAY-2008 09:00	ERE	ERE

Samplenum	Container ID	Products
L08050376-03	459399	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050376
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050376-04	459402	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	16-MAY-2008 14:24	RLK	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Quick Facts

Microbac®

Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate –Wide: 18 Divisions, 28 locations across 15 states

Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.) , in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.

Microbac®

Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L08050566

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box bleow at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Debbie Elliott	*Team Leader*	delliott@microbac.com
Kathy Albertson	*Team Chemist/Data Specialist*	kalbertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	smossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	tlong@microbac.com
Brenda Gregory	*Client Services Specialist*	bgregory@microbac.com
Amanda Fickiesen	*Client Services Specialist*	afickiesen@microbac.com
Annie Brown	*Client Services Specialist*	abrown@microbac.com
Katie Barnes	*Team Assistant*	kbarnes@microbac.com
Jacqueline Parsons	*Team Assistant*	jparsons@microbac.com

This report was reviewed on June 20, 2008.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on June 20, 2008.

David Vandenberg - Managing Director

Accrediting authority: Department of Environmental Protection (West Virginia) ID:037
This report contains a total of 156 pages.

Look closer. Go further. Do more.

Microbac REPORT L08050566
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08050566

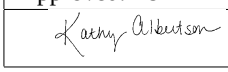
CHAIN OF CUSTODY: The chain of custody number was 04548.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 1 degree C.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 28-MAY-08



2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS VOLATILE ORGANICS

Microbac Login No: L08050566

METHOD

Preparation: SW-846 5030B, 5035

Analysis: SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples collected via 5035 preserved by freezing. Sample preparation preceeded normally.

CALIBRATION

Initial Calibration: 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: Vinyl acetate was below the lower control limit in the water alternate source analyzed 04/18/08 on HPMS-6. 1,4-Dioxane exceeded the upper control limit and vinyl acetate was below the lower control limit in the soil alternate source analyzed 05/12/08 on HPMS-9. All other acceptance criteria were met.

Continuing Calibration and Tune: Vinyl acetate was below the lower control limit in the water CCV analyzed 05/27/08 on HPMS-6. 1,1-Dichloroethane was below the lower control limit and bromoform and bromomethane exceeded the upper control limits in the soil CCV analyzed 05/28/08 on HPMS-69. All other acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spike: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak

In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.

This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.

This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline

There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

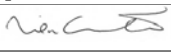
Reason #5: Miscellaneous

Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: CMS

Approved: 02-JUN-08



LABORATORY REPORT

L08050566

06/20/08 14:49

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER
Invoice Number: 594451
P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0127-SO01-052308	L08050566-01	8260B	1	23-MAY-08
0128-SO01-052308	L08050566-02	8260B	1	23-MAY-08
0131-SO01-052308	L08050566-03	8260B	1	23-MAY-08
0132-SO01-052308	L08050566-04	8260B	1	23-MAY-08
TB01-052308	L08050566-05	8260B	1	23-MAY-08

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-01**
Client ID: **0127-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272383**
Collect Date: **05/23/2008 10:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/28/2008 13:08**
Cal Date: **05/12/2008 18:39**
Run Date: **05/28/2008 13:08**
File ID: **9M62162**
Percent Solid: **93.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.68	0.468
1,1,2,2-Tetrachloroethane	79-34-5		U	4.68	0.468
1,1,2-Trichloroethane	79-00-5		U	4.68	0.468
1,1-Dichloroethane	75-34-3		U	4.68	0.937
1,1-Dichloroethene	75-35-4		U	4.68	0.468
1,2,4-Trichlorobenzene	120-82-1		U	4.68	0.468
1,2-Dichlorobenzene	95-50-1		U	4.68	0.468
1,2-Dichloroethane	107-06-2		U	4.68	0.468
1,2-Dichloropropane	78-87-5		U	4.68	0.468
1,3-Dichlorobenzene	541-73-1		U	4.68	0.468
1,4-Dichlorobenzene	106-46-7		U	4.68	0.468
1,4-Dioxane	123-91-1		U	1590	46.8
2-Butanone	78-93-3		U	23.4	2.34
2-Hexanone	591-78-6		U	9.37	2.34
4-Methyl-2-pentanone	108-10-1		U	9.37	2.34
Acetone	67-64-1		U	93.7	4.68
Acrylonitrile	107-13-1		U	93.7	2.34
Benzene	71-43-2		U	4.68	0.468
Bromodichloromethane	75-27-4		U	4.68	0.468
Bromoform	75-25-2		U	4.68	0.468
Bromomethane	74-83-9		U	9.37	0.937
Carbon disulfide	75-15-0		U	4.68	0.468
Carbon tetrachloride	56-23-5		U	4.68	0.468
Chlorobenzene	108-90-7		U	4.68	0.468
Dibromochloromethane	124-48-1		U	4.68	0.468
Chloroethane	75-00-3		U	9.37	0.937
Chloroform	67-66-3		U	4.68	0.468
Chloromethane	74-87-3		U	9.37	1.87
cis-1,2-Dichloroethene	156-59-2		U	4.68	0.468
cis-1,3-Dichloropropene	10061-01-5		U	4.68	0.468
Ethylbenzene	100-41-4		U	4.68	0.468
Methylene chloride	75-09-2		U	4.68	0.937
Methyltert-butyl ether	1634-04-4		U	9.37	0.468
Styrene	100-42-5		U	4.68	0.468
Tetrachloroethene	127-18-4		U	4.68	0.468
Toluene	108-88-3		U	4.68	0.468
trans-1,2-Dichloroethene	156-60-5		U	4.68	0.468
trans-1,3-Dichloropropene	10061-02-6		U	4.68	0.468
Trichloroethene	79-01-6		U	4.68	0.468
Vinyl acetate	108-05-4		U	9.37	0.937
Vinyl chloride	75-01-4		U	9.37	0.937
Xylenes	1330-20-7		U	9.37	0.468

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	86.8	70	121	
4-Bromofluorobenzene	93.2	59	113	
Dibromofluoromethane	103	65	135	
Toluene-d8	96.5	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-02**
Client ID: **0128-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272383**
Collect Date: **05/23/2008 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/28/2008 13:39**
Cal Date: **05/12/2008 18:39**
Run Date: **05/28/2008 13:39**
File ID: **9M62163**
Percent Solid: **84.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.74	0.474
1,1,2,2-Tetrachloroethane	79-34-5		U	4.74	0.474
1,1,2-Trichloroethane	79-00-5		U	4.74	0.474
1,1-Dichloroethane	75-34-3		U	4.74	0.948
1,1-Dichloroethene	75-35-4		U	4.74	0.474
1,2,4-Trichlorobenzene	120-82-1		U	4.74	0.474
1,2-Dichlorobenzene	95-50-1		U	4.74	0.474
1,2-Dichloroethane	107-06-2		U	4.74	0.474
1,2-Dichloropropane	78-87-5		U	4.74	0.474
1,3-Dichlorobenzene	541-73-1		U	4.74	0.474
1,4-Dichlorobenzene	106-46-7		U	4.74	0.474
1,4-Dioxane	123-91-1		U	1610	47.4
2-Butanone	78-93-3		U	23.7	2.37
2-Hexanone	591-78-6		U	9.48	2.37
4-Methyl-2-pentanone	108-10-1		U	9.48	2.37
Acetone	67-64-1		U	94.8	4.74
Acrylonitrile	107-13-1		U	94.8	2.37
Benzene	71-43-2		U	4.74	0.474
Bromodichloromethane	75-27-4		U	4.74	0.474
Bromoform	75-25-2		U	4.74	0.474
Bromomethane	74-83-9		U	9.48	0.948
Carbon disulfide	75-15-0		U	4.74	0.474
Carbon tetrachloride	56-23-5		U	4.74	0.474
Chlorobenzene	108-90-7		U	4.74	0.474
Dibromochloromethane	124-48-1		U	4.74	0.474
Chloroethane	75-00-3		U	9.48	0.948
Chloroform	67-66-3		U	4.74	0.474
Chloromethane	74-87-3		U	9.48	1.90
cis-1,2-Dichloroethene	156-59-2		U	4.74	0.474
cis-1,3-Dichloropropene	10061-01-5		U	4.74	0.474
Ethylbenzene	100-41-4		U	4.74	0.474
Methylene chloride	75-09-2		U	4.74	0.948
Methyltert-butyl ether	1634-04-4		U	9.48	0.474
Styrene	100-42-5		U	4.74	0.474
Tetrachloroethene	127-18-4		U	4.74	0.474
Toluene	108-88-3		U	4.74	0.474
trans-1,2-Dichloroethene	156-60-5		U	4.74	0.474
trans-1,3-Dichloropropene	10061-02-6		U	4.74	0.474
Trichloroethene	79-01-6		U	4.74	0.474
Vinyl acetate	108-05-4		U	9.48	0.948
Vinyl chloride	75-01-4		U	9.48	0.948
Xylenes	1330-20-7		U	9.48	0.474

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.8	70	121	
4-Bromofluorobenzene	95.6	59	113	
Dibromofluoromethane	104	65	135	
Toluene-d8	97.2	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-03**
Client ID: **0131-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272383**
Collect Date: **05/23/2008 12:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/28/2008 14:10**
Cal Date: **05/12/2008 18:39**
Run Date: **05/28/2008 14:10**
File ID: **9M62164**
Percent Solid: **84.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.64	0.464
1,1,2,2-Tetrachloroethane	79-34-5		U	4.64	0.464
1,1,2-Trichloroethane	79-00-5		U	4.64	0.464
1,1-Dichloroethane	75-34-3		U	4.64	0.929
1,1-Dichloroethene	75-35-4		U	4.64	0.464
1,2,4-Trichlorobenzene	120-82-1		U	4.64	0.464
1,2-Dichlorobenzene	95-50-1		U	4.64	0.464
1,2-Dichloroethane	107-06-2		U	4.64	0.464
1,2-Dichloropropane	78-87-5		U	4.64	0.464
1,3-Dichlorobenzene	541-73-1		U	4.64	0.464
1,4-Dichlorobenzene	106-46-7		U	4.64	0.464
1,4-Dioxane	123-91-1		U	1580	46.4
2-Butanone	78-93-3		U	23.2	2.32
2-Hexanone	591-78-6		U	9.29	2.32
4-Methyl-2-pentanone	108-10-1		U	9.29	2.32
Acetone	67-64-1		U	92.9	4.64
Acrylonitrile	107-13-1		U	92.9	2.32
Benzene	71-43-2		U	4.64	0.464
Bromodichloromethane	75-27-4		U	4.64	0.464
Bromoform	75-25-2		U	4.64	0.464
Bromomethane	74-83-9		U	9.29	0.929
Carbon disulfide	75-15-0		U	4.64	0.464
Carbon tetrachloride	56-23-5		U	4.64	0.464
Chlorobenzene	108-90-7		U	4.64	0.464
Dibromochloromethane	124-48-1		U	4.64	0.464
Chloroethane	75-00-3		U	9.29	0.929
Chloroform	67-66-3		U	4.64	0.464
Chloromethane	74-87-3		U	9.29	1.86
cis-1,2-Dichloroethene	156-59-2		U	4.64	0.464
cis-1,3-Dichloropropene	10061-01-5		U	4.64	0.464
Ethylbenzene	100-41-4		U	4.64	0.464
Methylene chloride	75-09-2		U	4.64	0.929
Methyltert-butyl ether	1634-04-4		U	9.29	0.464
Styrene	100-42-5		U	4.64	0.464
Tetrachloroethene	127-18-4		U	4.64	0.464
Toluene	108-88-3		U	4.64	0.464
trans-1,2-Dichloroethene	156-60-5		U	4.64	0.464
trans-1,3-Dichloropropene	10061-02-6		U	4.64	0.464
Trichloroethene	79-01-6		U	4.64	0.464
Vinyl acetate	108-05-4		U	9.29	0.929
Vinyl chloride	75-01-4		U	9.29	0.929
Xylenes	1330-20-7		U	9.29	0.464

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.5	70	121	
4-Bromofluorobenzene	97.3	59	113	
Dibromofluoromethane	105	65	135	
Toluene-d8	98.0	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-04**
Client ID: **0132-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272383**
Collect Date: **05/23/2008 12:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **05/28/2008 14:41**
Cal Date: **05/12/2008 18:39**
Run Date: **05/28/2008 14:41**
File ID: **9M62165**
Percent Solid: **96.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.16	0.416
1,1,2,2-Tetrachloroethane	79-34-5		U	4.16	0.416
1,1,2-Trichloroethane	79-00-5		U	4.16	0.416
1,1-Dichloroethane	75-34-3		U	4.16	0.832
1,1-Dichloroethene	75-35-4		U	4.16	0.416
1,2,4-Trichlorobenzene	120-82-1		U	4.16	0.416
1,2-Dichlorobenzene	95-50-1		U	4.16	0.416
1,2-Dichloroethane	107-06-2		U	4.16	0.416
1,2-Dichloropropane	78-87-5		U	4.16	0.416
1,3-Dichlorobenzene	541-73-1		U	4.16	0.416
1,4-Dichlorobenzene	106-46-7		U	4.16	0.416
1,4-Dioxane	123-91-1		U	1410	41.6
2-Butanone	78-93-3		U	20.8	2.08
2-Hexanone	591-78-6		U	8.32	2.08
4-Methyl-2-pentanone	108-10-1		U	8.32	2.08
Acetone	67-64-1		U	83.2	4.16
Acrylonitrile	107-13-1		U	83.2	2.08
Benzene	71-43-2		U	4.16	0.416
Bromodichloromethane	75-27-4		U	4.16	0.416
Bromoform	75-25-2		U	4.16	0.416
Bromomethane	74-83-9		U	8.32	0.832
Carbon disulfide	75-15-0		U	4.16	0.416
Carbon tetrachloride	56-23-5		U	4.16	0.416
Chlorobenzene	108-90-7		U	4.16	0.416
Dibromochloromethane	124-48-1		U	4.16	0.416
Chloroethane	75-00-3		U	8.32	0.832
Chloroform	67-66-3		U	4.16	0.416
Chloromethane	74-87-3		U	8.32	1.66
cis-1,2-Dichloroethene	156-59-2		U	4.16	0.416
cis-1,3-Dichloropropene	10061-01-5		U	4.16	0.416
Ethylbenzene	100-41-4		U	4.16	0.416
Methylene chloride	75-09-2		U	4.16	0.832
Methyltert-butyl ether	1634-04-4		U	8.32	0.416
Styrene	100-42-5		U	4.16	0.416
Tetrachloroethene	127-18-4	6.51		4.16	0.416
Toluene	108-88-3		U	4.16	0.416
trans-1,2-Dichloroethene	156-60-5		U	4.16	0.416
trans-1,3-Dichloropropene	10061-02-6		U	4.16	0.416
Trichloroethene	79-01-6		U	4.16	0.416
Vinyl acetate	108-05-4		U	8.32	0.832
Vinyl chloride	75-01-4		U	8.32	0.832
Xylenes	1330-20-7		U	8.32	0.416

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.0	70	121	
4-Bromofluorobenzene	102	59	113	
Dibromofluoromethane	104	65	135	
Toluene-d8	101	86	138	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-05	PrePrep Method:	NONE	Instrument:	HPMS6
Client ID:	TB01-052308	Prep Method:	5030B	Prep Date:	05/27/2008 13:45
Matrix:	Water	Analytical Method:	8260B	Cal Date:	04/17/2008 17:34
Workgroup Number:	WG272289	Analyst:	CMS	Run Date:	05/27/2008 13:45
Collect Date:	05/23/2008 00:01	Dilution:	1	File ID:	6M75489
Sample Tag:	01	Units:	ug/L		

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	101	76	114	
4-Bromofluorobenzene	105	86	115	
Dibromofluoromethane	100	85	115	
Toluene-d8	105	88	110	

U Not detected at or above the reporting limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

	Example
where:	
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

	Example
where:	
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

	Example
where:	
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**
Dry weight correction:	
Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

VOA Preparation/Preservation and Extraction Log

Analyst: SMH Date Prepared/Preserved: 05-23-08 Method: 8260

Sample #	Fraction ID	Date Collected	Time Collected	Time Preserved	Tare Wt. (g)	Total Wt. (g)	Sample Wt. (g)	Water Vol. (mL)	Methanol Vol. (mL)	Comments	Team Notified
L080505666-01	A	5-23-08	1050	before 1700	N/A	N/A	5.74	5	–	5	N/A
"	B	"	"	"	"	"	5.98	5	–	"	"
"	C	"	"	"	"	"	5.92	–	10	"	"
-02	A	"	1120	"	"	"	6.27	5	–	"	"
"	B	"	"	"	"	"	5.50	5	–	"	"
"	C	"	"	"	"	"	6.24	–	10	"	"
-03	A	"	1210	"	"	"	6.40	5	–	"	"
"	B	"	"	"	"	"	6.42	5	–	"	"
"	C	"	"	"	"	"	6.30	–	10	"	"
-04	A	"	1215	"	"	"	6.26	5	–	"	"
"	B	"	"	"	"	"	6.13	5	–	"	"
"	C	"	"	"	"	"	6.20	–	10	"	"
BLANK	A	N/A	N/A	"	"	"	5.00	5	–	"	"
"	B	"	"	"	"	"	"	5	–	"	"
"	C	"	"	"	"	"	"	–	10	"	"

SMH 5-23-08

Comments:
1 = improperly sealed cap
2 = preserved out of hold (past 48 hours from time of collection)
3 = effervesced
4 = preserved with NaHSO4 (sodium bisulfate)
5 = preserved by freezing
6 = preserved in field

Methanol (Manufacturer, Lot #) CV200

NaHSO4 (Manufacturer, Lot #) N/A

Reviewed by: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041708
Analyst1: CMS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 624 SOP: MSV10 Rev: 9
Method: 5030B SOP: PAT01 Rev: 10
Maintenance Log ID: 23802

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74324	WG268581-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/17/08 08:37
2	6M74325	WG268581-02 0.30ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:07
3	6M74326	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 09:41
4	6M74327	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:14
5	6M74328	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 10:47
6	6M74329	WG268581-06 5ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:22
7	6M74330	WG268581-07 20ug/L STD 8260	NA	1	1	STD25741	04/17/08 11:55
8	6M74331	WG268581-08 50ug/L STD 8260	NA	1	1	STD25741	04/17/08 12:30
9	6M74332	WG268581-09 100ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:03
10	6M74333	WG268581-10 200ug/L STD 8260	NA	1	1	STD25741	04/17/08 13:36
11	6M74334	WG268581-11 300ug/L STD 8260	NA	1	1	STD25741	04/17/08 14:09
12	6M74335	SYSTEM BLANK	NA	1	1		04/17/08 14:49
13	6M74336	SYSTEM BLANK	NA	1	1		04/17/08 15:22
14	6M74337	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 15:55
15	6M74338	WG268581-05 2ug/L STD 8260	NA	1	1	STD25741	04/17/08 16:28
16	6M74339	WG268581-04 1ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:01
17	6M74340	WG268581-03 0.40ug/L STD 8260	NA	1	1	STD25741	04/17/08 17:34
18	6M74341	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/17/08 18:08

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X			
File ID: 6M74326				
	DNR			
4	X			
File ID: 6M74327				
	DNR			
5	X			
File ID: 6M74328				
	DNR			
18	X			
File ID: 6M74341				
	DNR			

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M74343	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:29
2	6M74344	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 10:46
3	6M74345	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:14
4	6M74346	WG268744-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 11:41
5	6M74347	WG268744-02 50ug/L STD 8260	NA	1	1	STD25741	04/18/08 12:10
6	6M74348	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 12:49
7	6M74349	WG268745-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 13:22
8	6M74350	WG268581-12 20ug/L ALT SRC STD 8260	NA	1	1	STD25665	04/18/08 13:55
9	6M74351	WG268745-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/18/08 14:28
10	6M74352	WG268745-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25665	04/18/08 15:01
11	6M74353	L08040217-08 A 8260	<2	1	1		04/18/08 15:35
12	6M74354	L08040217-06 A 8260	<2	1	1		04/18/08 16:08
13	6M74355	L08040222-05 A 8260	<2	1	1		04/18/08 16:41
14	6M74356	L08040217-01 A 50X 8260	<2	1	50		04/18/08 17:14
15	6M74357	L08040217-03 A 50X 8260	<2	1	50		04/18/08 17:47
16	6M74358	L08040217-04 A 50X 8260	<2	1	50		04/18/08 18:21
17	6M74359	L08040217-05 A 50X 8260	<2	1	50		04/18/08 18:54
18	6M74360	L08040217-07 A 50X 8260	<2	1	50		04/18/08 19:27
19	6M74361	L08040222-01 A 50X 8260	<2	1	50		04/18/08 20:00
20	6M74362	L08040222-02 A 50X 8260	7	1	50		04/18/08 20:33
21	6M74363	L08040222-03 A 50X 8260	<2	1	50		04/18/08 21:07
22	6M74364	L08040222-04 A 50X 8260	<2	1	50		04/18/08 21:40
23	6M74365	L08040222-06 A 50X 8260	<2	1	50		04/18/08 22:13
24	6M74366	L08040222-08 A 50X 8260	<2	1	50		04/18/08 22:46
25	6M74367	L08040222-10 A 50X 8260	<2	1	50		04/18/08 23:20
26	6M74368	SYSTEM CHECK	NA	1	1		04/18/08 23:53
27	6M74369	SYSTEM CHECK	NA	1	1		04/19/08 00:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 6M74344				
	Replaced septa.			

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
File ID: 6M74345				
Calibrated mass axis and peak width.				
6	X			
File ID: 6M74348				
14	X	1	Analyzed too dilute	
File ID: 6M74356				
15	X	1	Analyzed too dilute	
File ID: 6M74357				
16	X	1	Analyzed too dilute	
File ID: 6M74358				
17	X	1	Analyzed too dilute	
File ID: 6M74359				
19	X	1	Analyzed too dilute	
File ID: 6M74361				
20	X	1	Analyzed too dilute	
File ID: 6M74362				
21	X	1	Analyzed too dilute	
File ID: 6M74363				
22	X	1	Analyzed too dilute	
File ID: 6M74364				
23	X	1	Analyzed too dilute	
File ID: 6M74365				
24	X	1	Analyzed too dilute	
File ID: 6M74366				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 041808
Analyst1: ASP Analyst2: CMS
Method: 5030B SOP: MSV01 Rev: 10
Method: 8260B SOP: PAT01 Rev: 10
Method: 624 SOP: MSV01 Rev: 9
Maintenance Log ID: 23806

Internal Standard: STD25713 Surrogate Standard: STD25615
CCV: STD25741 LCS: STD25665 MS/MSD: NA

Column 1 ID: RTX5 Column 2 ID: NA
Workgroups: WG268745, WG268581

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
25	X	1	Analyzed too dilute	
File ID: 6M74367				

Approved: April 23, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M61788	system blank	NA	7	1		05/12/08 07:18
2	9M61789	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:17
3	9M61790	WG270933-01 50ng BFB STD 8260	NA	7	1	STD26149	05/12/08 08:37
4	9M61792	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 09:35
5	9M61793	WG270933-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26262	05/12/08 10:06
6	9M61794	SYSTEM CHECK	NA	7	1		05/12/08 10:40
7	9M61795	WG270933-01 BFB 50ng STD 8260	NA	7	1	STD26149	05/12/08 11:07
8	9M61797	WG270934-01 VBLK0512 BLANK STD 826	NA	7	1		05/12/08 12:03
9	9M61798	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 12:43
10	9M61799	WG270934-02 20ug/Kg LCS STD 8260	NA	7	1	STD26208	05/12/08 13:24
11	9M61800	SYSTEM BLANK	NA	7	1		05/12/08 13:59
12	9M61801	WG270933-03 0.5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 14:31
13	9M61802	WG270933-04 1ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:03
14	9M61803	WG270933-05 2ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 15:34
15	9M61804	WG270933-06 5ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:05
16	9M61805	WG270933-07 20ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 16:36
17	9M61806	WG270933-08 50ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:06
18	9M61807	WG270933-09 100ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 17:37
19	9M61808	WG270933-10 200ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:08
20	9M61809	WG270933-11 300ug/Kg STD 8260	NA	7	1	STD26310	05/12/08 18:39
21	9M61810	SYSTEM BLANK	NA	7	1		05/12/08 19:10
22	9M61811	SYSTEM BLANK	NA	7	1		05/12/08 19:41
23	9M61812	WG270933-12 20ug/Kg ALT SRC STD 826	NA	7	1	STD26314	05/12/08 20:12

Comments

Seq.	Rerun	Dil.	Reason	Analytes
8				
File ID: 9M61797				
	DNR.			
9				
File ID: 9M61798				
	DNR.			
10				

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 051208
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24179

Internal Standard: STD26151 Surrogate Standard: STD26150
CCV: STD26310 LCS: STD26314 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG270933

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 9M61799				
	DNR. Had to run a curve.			
11				
File ID: 9M61800				
	DNR.			

Approved: May 16, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052708
Analyst1: CMS Analyst2: SMH
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24336

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505;STD26599 LCS: STD26610;STD26600 MS/MSD: STD26610

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272289;WG272367

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M75478	WG272287-01 50ng BFB STD 8260	NA	1	1	STD26149	05/27/08 08:22
2	6M75479	WG272287-01 50ng BFB STD 8260	NA	1	1	STD26149	05/27/08 08:36
3	6M75480	WG272287-01 50ng BFB STD 8260	NA	1	1	STD26149	05/27/08 08:56
4	6M75481	WG272287-02 50ug/L STD 8260	NA	1	1	STD26505	05/27/08 09:20
5	6M75482	WG272309-01 100ug/L A9FOO STD 8260	NA	1	1	STD26599	05/27/08 09:54
6	6M75483	WG272289-01 VBLK0527 BLANK 8260	NA	1	1		05/27/08 10:27
7	6M75484	WG272289-02 20ug/L LCS STD 8260	NA	1	1	STD26610	05/27/08 11:00
8	6M75485	WG272289-06 100ug/L A9FOOLCS STD 82	NA	1	1	STD26600	05/27/08 11:33
9	6M75486	L08050293-05 B 100X 826-SPE1	<2	1	100		05/27/08 12:06
10	6M75487	L08050430-30 B 50X 826-LOW	<2	1	50		05/27/08 12:39
11	6M75488	L08050387-05 B 5X 826-SPE	=7	1	5		05/27/08 13:12
12	6M75489	L08050566-05 A 826-SPE	<2	1	1		05/27/08 13:45
13	6M75490	L08050408-13 B 826-SPE	<2	1	1		05/27/08 14:18
14	6M75491	L08050390-01 B 826-SPE	<2	1	1		05/27/08 14:51
15	6M75492	L08050390-08 B 826-SPE	<2	1	1		05/27/08 15:24
16	6M75493	L08050390-10 B 826-SPE	<2	1	1		05/27/08 15:57
17	6M75494	L08050488-02 A 2.5X 826-LOW	<2	1	2.5		05/27/08 16:30
18	6M75495	L08050488-03 MS A 2.5X 826-LOW	<2	1	2.5	STD26610	05/27/08 17:03
19	6M75496	L08050488-04 MSD A 2.5X 826-LOW	<2	1	2.5	STD26610	05/27/08 17:36
20	6M75497	SYSTEM CHECK	NA	1	1		05/27/08 18:09
21	6M75498	SYSTEM CHECK	NA	1	1		05/27/08 18:52
22	6M75499	WG272366-01 50ng BFB STD 8260	NA	1	1	STD26149	05/27/08 19:22
23	6M75500	WG272366-02 50ug/L STD 8260	NA	1	1	STD26505	05/27/08 19:47
24	6M75501	WG272366-02 50ug/L STD 8260	NA	1	1	STD26505	05/27/08 20:47
25	6M75502	WG272367-01 VBLK0526 BLANK 8260	NA	1	1		05/27/08 21:20
26	6M75503	WG272367-01 VBLK0526 BLANK 8260	NA	1	1		05/27/08 21:54
27	6M75504	WG272367-02 20ug/L LCS STD 8260	NA	1	1	STD26340	05/27/08 22:27
28	6M75505	WG272367-03 20ug/L LCSDUP STD 8260	NA	1	1	STD26340	05/27/08 23:00
29	6M75506	L08050311-06 B 100X 826-SPE D1	<2	1	100		05/27/08 23:34
30	6M75507	L08050388-06 B 100X 826-SPE D1	<2	1	100		05/28/08 00:07
31	6M75508	L08050388-07 B 100X 826-SPE D1	<2	1	100		05/28/08 00:40
32	6M75509	L08050504-02 A 826-SPE	=4	1	1		05/28/08 01:14
33	6M75510	L08050504-03 A 826-SPE	<2	1	1		05/28/08 01:47
34	6M75511	L08050504-04 A 826-SPE	<2	1	1		05/28/08 02:21

Approved: May 29, 2008

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Instrument Run Log

Instrument: HPMS6 Dataset: 052708
Analyst1: CMS Analyst2: SMH
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 24336

Internal Standard: STD26571 Surrogate Standard: STD26572
CCV: STD26505;STD26599 LCS: STD26610;STD26600 MS/MSD: STD26610

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272289;WG272367

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M75512	L08050430-01 B 25X 826-LOW	<2	1	25		05/28/08 02:54
36	6M75513	L08050430-07 B 826-LOW	<2	1	1		05/28/08 03:28
37	6M75514	L08050430-11 A 826-LOW	<2	1	1		05/28/08 04:01
38	6M75515	L08050430-12 A 826-LOW	<2	1	1		05/28/08 04:35
39	6M75516	L08050430-13 A 826-LOW	<2	1	1		05/28/08 05:10
40	6M75517	L08050430-14 A 826-LOW	<2	1	1		05/28/08 05:43
41	6M75518	L08050430-15 A 826-LOW	<2	1	1		05/28/08 06:17
42	6M75519	L08050430-16 A 826-LOW	<2	1	1		05/28/08 06:50
43	6M75520	L08050430-17 A 826-LOW	<2	1	1		05/28/08 07:24
44	6M75521	SYSTEM CHECK	NA	1	1		05/28/08 07:57
45	6M75522	SYSTEM CHECK	NA	1	1		05/28/08 08:30

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			
File ID: 6M75478				
	Tune failed/DNR			
2	X			
File ID: 6M75479				
	Tune failed/DNR-Replaced septa			
23	X			
File ID: 6M75500				
	quit acuiring after snapshot			
25	X		Carry-over contamination	
File ID: 6M75502				
	DNR			
42	X		Internal standard failure	
File ID: 6M75519				
	DNR			
43	X		Missed Tune	
File ID: 6M75520				
	DNR			

Approved: May 29, 2008

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 052808
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 10
Method: 5030B/5035 SOP: PAT01 Rev: 10

Maintenance Log ID: 24346

Internal Standard: STD26151 Surrogate Standard: STD26329
CCV: STD26626 LCS: STD26610 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG272383

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	9M62153	SYSTEM BLANK	NA	7	1		05/28/08 08:37
2	9M62154	WG272382-01 50ng BFB STD 8260	NA	7	1	STD26149	05/28/08 09:14
3	9M62155	WG272382-01 50ng BFB STD 8260	NA	7	1	STD26149	05/28/08 09:28
4	9M62156	WG272382-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26626	05/28/08 09:56
5	9M62157	WG272382-02 50ug/Kg SOIL STD 8260	NA	7	1	STD26626	05/28/08 10:34
6	9M62158	WG272383-01 VBLK0528 BLANK STD 826	NA	7	1		05/28/08 11:05
7	9M62159	WG272383-01 VBLK0528 BLANK STD 826	NA	7	1		05/28/08 11:36
8	9M62160	WG272383-02 20ug/Kg LCS STD 8260	NA	7	1	STD26610	05/28/08 12:06
9	9M62161	WG272383-03 20ug/Kg LCSDUP STD 826	NA	7	1	STD26610	05/28/08 12:37
10	9M62162	L08050566-01 A 826-SPE	NA	7	1		05/28/08 13:08
11	9M62163	L08050566-02 A 826-SPE	NA	7	1		05/28/08 13:39
12	9M62164	L08050566-03 A 826-SPE	NA	7	1		05/28/08 14:10
13	9M62165	L08050566-04 A 826-SPE	NA	7	1		05/28/08 14:41
14	9M62166	L08050512-01 A 826-SPE	NA	7	1		05/28/08 15:11
15	9M62167	L08050512-02 A 826-SPE	NA	7	1		05/28/08 15:42
16	9M62168	L08050520-01 8260	NA	10	1		05/28/08 16:13
17	9M62169	L08050192-12 A1 8260	NA	7	1		05/28/08 16:43
18	9M62170	SYSTEM BLANK	NA	7	1		05/28/08 17:13
19	9M62171	SYSTEM BLANK	NA	7	1		05/28/08 17:44

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 9M62154				
	Tune failed. DNR.			
4	X			11dca, mecl
File ID: 9M62156				
	Compounds were low. DNR.			
6	X	1	Carry-over contamination	naph
File ID: 9M62158				
17				
File ID: 9M62169				
	Confirms SMI. Ran out of hold.			

Approved: May 29, 2008

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 17-APR-2008
Analyst: CMS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21761
Analytical Workgroups: WG268581

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
22-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:57:54

Microbac Laboratories Inc.

Data Checklist

Date: 18-APR-2008
Analyst: ASP
Analyst: CMS
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 21767
Analytical Workgroups: WG268745

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008

Secondary Reviewer:
23-APR-2008

CHECKLIST1 - Modified 03/05/2008
Generated: APR-23-2008 09:58:36

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22226
Analytical Workgroups: WG270933

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
16-MAY-2008

Secondary Reviewer:
16-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-16-2008 13:40:10

Microbac Laboratories Inc.

Data Checklist

Date: 27-MAY-2008
Analyst: CMS
Analyst: SMH
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 22417
Analytical Workgroups: WG272289;WG272367

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
28-MAY-2008

Secondary Reviewer:
29-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-29-2008 08:33:25

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAY-2008
Analyst: TMB
Analyst: NA
Method: 8260
Instrument: HPMS9
Curve Workgroup: NA
Runlog ID: 22427
Analytical Workgroups: WG272383

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
29-MAY-2008

Secondary Reviewer:
29-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-29-2008 14:01:00

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG272289

Login Number: L08050566

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TB01-052308	05/23/08	05/23/08	05/27/08	14	4.57	05/27/08	14	4.57	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1107195
Report generated 06/20/2008 15:08

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG272383

Login Number: L08050566

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0127-SO01-052308	05/23/08	05/23/08	05/28/08	14	5.10	05/28/08	14	5.10	
0128-SO01-052308	05/23/08	05/23/08	05/28/08	14	5.10	05/28/08	14	5.10	
0132-SO01-052308	05/23/08	05/23/08	05/28/08	14	5.10	05/28/08	14	5.10	
0131-SO01-052308	05/23/08	05/23/08	05/28/08	14	5.08	05/28/08	14	5.08	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1107195
Report generated 06/20/2008 15:08

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050566
Instrument Id: HPMS6
Workgroup (AAB#): WG272289

Method: 8260
CAL ID: HPMS6-17-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08050566-05	1.00	01	101	100	105	105
WG272289-01	1.00	01	91.7	95.5	102	105
WG272289-02	1.00	01	94.9	97.9	99.9	106
WG272289-06	1.00	01	92.5	97.1	106	107

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	76	-	114
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1107201
Report generated: 05/30/2008 15:43

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050566 **Method:** 8260
Instrument Id: HPMS9 **CAL ID:** HPMS9-12-MAY-08
Workgroup (AAB#): WG272383 **Matrix:** Soil

Sample Number	Dilution	Tag	1	2	3	4
L08050566-01	1.00	01	86.8	103	93.2	96.5
L08050566-02	1.00	01	90.8	104	95.6	97.2
L08050566-03	1.00	01	90.5	105	97.3	98.0
L08050566-04	1.00	01	90.0	104	102	101
WG272383-01	1.00	01	91.3	104	94.0	95.9
WG272383-02	1.00	01	86.5	99.0	93.2	98.8
WG272383-03	1.00	01	86.7	101	92.8	98.4

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	121
2 - Dibromofluoromethane	65	-	135
3 - 4-Bromofluorobenzene	59	-	113
4 - Toluene-d8	86	-	138

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1107201
Report generated: 05/30/2008 15:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L08050566	Work Group:	WG272289
Blank File ID:	6M75483	Blank Sample ID:	WG272289-01
Prep Date:	05/27/08 10:27	Instrument ID:	HPMS6
Analyzed Date:	05/27/08 10:27	Method:	8260B
Analyst:	CMS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG272289-02	6M75484	05/27/08 11:00	01
LCS	WG272289-06	6M75485	05/27/08 11:33	01
TB01-052308	L08050566-05	6M75489	05/27/08 13:45	01

Report Name: BLANK_SUMMARY
PDF File ID: 1107196
Report generated 06/20/2008 15:08

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050566
Work Group: WG272383
Blank File ID: 9M62159
Blank Sample ID: WG272383-01
Prep Date: 05/28/08 11:36
Instrument ID: HPMS9
Analyzed Date: 05/28/08 11:36
Method: 8260B
Analyst: TMB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG272383-02	9M62160	05/28/08 12:06	01
LCS2	WG272383-03	9M62161	05/28/08 12:37	01
0127-SO01-052308	L08050566-01	9M62162	05/28/08 13:08	01
0128-SO01-052308	L08050566-02	9M62163	05/28/08 13:39	01
0131-SO01-052308	L08050566-03	9M62164	05/28/08 14:10	01
0132-SO01-052308	L08050566-04	9M62165	05/28/08 14:41	01

Report Name: BLANK_SUMMARY
PDF File ID: 1107196
Report generated 06/20/2008 15:08

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050566 Prep Date: 05/27/08 10:27 Sample ID: WG272289-01
Instrument ID: HPMS6 Run Date: 05/27/08 10:27 Prep Method: 5030B
File ID: 6M75483 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272289 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

Report Name:BLANK
PDF ID: 1107197
30-MAY-2008 15:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050566 Prep Date: 05/27/08 10:27 Sample ID: WG272289-01
Instrument ID: HPMS6 Run Date: 05/27/08 10:27 Prep Method: 5030B
File ID: 6M75483 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272289 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-17-APR-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	91.7	76 - 114	PASS
4-Bromofluorobenzene	102	86 - 115	PASS
Dibromofluoromethane	95.5	85 - 115	PASS
Toluene-d8	105	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1107197
30-MAY-2008 15:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050566 Prep Date: 05/28/08 11:36 Sample ID: WG272383-01
Instrument ID: HPMS9 Run Date: 05/28/08 11:36 Prep Method: 5030B
File ID: 9M62159 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG272383 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
PDF ID: 1107197
30-MAY-2008 15:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050566 Prep Date: 05/28/08 11:36 Sample ID: WG272383-01
Instrument ID: HPMS9 Run Date: 05/28/08 11:36 Prep Method: 5030B
File ID: 9M62159 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG272383 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-12-MAY-08

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	91.3	70 - 121	PASS
4-Bromofluorobenzene	94.0	59 - 113	PASS
Dibromofluoromethane	104	65 - 135	PASS
Toluene-d8	95.9	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1107197
30-MAY-2008 15:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272289-02
Instrument ID: HPMS6 Run Time: 11:00 Prep Method: 5030B
File ID: 6M75484 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272289 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS6-17-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	19.8	99.0	67 - 132	
1,1,2,2-Tetrachloroethane	20.0	21.1	105	63 - 128	
1,1,2-Trichloroethane	20.0	21.5	107	70 - 125	
1,1-Dichloroethane	20.0	21.1	105	67 - 133	
1,1-Dichloroethene	20.0	19.7	98.5	68 - 130	
1,2,4-Trichlorobenzene	20.0	21.6	108	65 - 134	
1,2-Dichlorobenzene	20.0	21.3	107	71 - 122	
1,2-Dichloroethane	20.0	20.7	104	69 - 132	
1,2-Dichloropropane	20.0	21.0	105	75 - 125	
1,3-Dichlorobenzene	20.0	21.2	106	75 - 124	
1,4-Dichlorobenzene	20.0	20.5	102	74 - 123	
1,4-Dioxane	200	172	86.0	70 - 130	
2-Butanone	20.0	21.2	106	49 - 136	
2-Hexanone	20.0	18.7	93.7	65 - 135	
4-Methyl-2-pentanone	20.0	22.0	110	58 - 134	
Acetone	20.0	21.2	106	30 - 135	
Acrylonitrile	20.0	22.0	110	60 - 135	
Benzene	20.0	20.9	105	81 - 122	
Bromodichloromethane	20.0	23.0	115	76 - 121	
Bromoform	20.0	19.2	96.2	69 - 128	
Bromomethane	20.0	22.8	114	53 - 141	
Carbon disulfide	20.0	17.8	88.9	70 - 130	
Carbon tetrachloride	20.0	20.3	101	66 - 138	
Chlorobenzene	20.0	20.6	103	81 - 122	
Dibromochloromethane	20.0	19.6	98.2	66 - 133	
Chloroethane	20.0	17.0	84.9	58 - 133	
Chloroform	20.0	21.7	109	69 - 128	
Chloromethane	20.0	15.4	76.9	56 - 131	
cis-1,2-Dichloroethene	20.0	22.7	114	72 - 126	
cis-1,3-Dichloropropene	20.0	19.4	97.2	69 - 131	
Ethylbenzene	20.0	22.3	112	73 - 127	
Methylene chloride	20.0	19.2	96.2	63 - 137	
Methyltert-butyl ether	20.0	22.4	112	65 - 123	
Styrene	20.0	19.6	98.1	65 - 134	
Tetrachloroethene	20.0	22.5	112	66 - 128	
Toluene	20.0	22.3	111	77 - 122	
trans-1,2-Dichloroethene	20.0	19.5	97.4	63 - 137	
trans-1,3-Dichloropropene	20.0	19.1	95.7	59 - 135	
Trichloroethene	20.0	19.9	99.5	70 - 127	
Vinyl acetate	20.0	20.0	100	65 - 130	
Vinyl chloride	20.0	24.8	124	50 - 134	

LCS - Modified 03/06/2008
PDF File ID: 1104908
Report generated: 05/28/2008 14:58

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272289-02
Instrument ID: HPMS6 Run Time: 11:00 Prep Method: 5030B
File ID: 6M75484 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG272289 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD26340 Cal ID: HPMS6-17-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	64.5	108	75 - 120	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	94.9	76 - 114	PASS
4-Bromofluorobenzene	99.9	86 - 115	PASS
Dibromofluoromethane	97.9	85 - 115	PASS
Toluene-d8	106	88 - 110	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1104908
Report generated: 05/28/2008 14:58

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Analyst: TMB Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG272383 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26610

Sample ID: WG272383-02 LCS File ID: 9M62160 Run Date: 05/28/2008 12:06
Sample ID: WG272383-03 LCS2 File ID: 9M62161 Run Date: 05/28/2008 12:37

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	21.9	109	20.0	21.7	108	1.08	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	19.1	95.6	20.0	19.1	95.5	0.0693	59 - 140	30	
1,1,2-Trichloroethane	20.0	21.1	105	20.0	21.3	106	0.737	62 - 127	30	
1,1-Dichloroethane	20.0	18.7	93.5	20.0	18.8	94.2	0.755	73 - 125	30	
1,1-Dichloroethene	20.0	18.6	93.0	20.0	18.7	93.7	0.765	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	23.2	116	20.0	23.4	117	0.945	65 - 131	30	
1,2-Dichlorobenzene	20.0	21.3	107	20.0	21.2	106	0.568	74 - 120	30	
1,2-Dichloroethane	20.0	18.6	92.8	20.0	18.4	91.9	0.978	72 - 137	30	
1,2-Dichloropropane	20.0	19.5	97.3	20.0	20.0	100	2.80	71 - 120	30	
1,3-Dichlorobenzene	20.0	20.9	105	20.0	20.8	104	0.390	72 - 124	30	
1,4-Dichlorobenzene	20.0	20.1	101	20.0	19.8	99.0	1.64	72 - 125	30	
1,4-Dioxane	200	197	98.5	200	183	91.3	7.56	50 - 150	30	
2-Butanone	20.0	19.3	96.6	20.0	19.0	95.2	1.40	40 - 135	30	
2-Hexanone	20.0	17.9	89.3	20.0	17.5	87.4	2.11	50 - 140	30	
4-Methyl-2-pentanone	20.0	20.3	101	20.0	19.8	99.0	2.46	50 - 140	30	
Acetone	20.0	16.4	82.2	20.0	15.7	78.5	4.62	40 - 141	30	
Acrylonitrile	20.0	18.6	93.2	20.0	18.5	92.4	0.848	60 - 140	30	
Benzene	20.0	20.5	102	20.0	20.5	103	0.211	73 - 126	30	
Bromodichloromethane	20.0	21.8	109	20.0	21.7	108	0.641	72 - 128	30	
Bromoform	20.0	24.2	121	20.0	23.6	118	2.19	60 - 137	30	
Bromomethane	20.0	22.3	111	20.0	22.0	110	1.26	45 - 141	30	
Carbon disulfide	20.0	15.7	78.3	20.0	15.5	77.6	0.812	65 - 135	30	
Carbon tetrachloride	20.0	24.0	120	20.0	23.8	119	0.545	67 - 133	30	
Chlorobenzene	20.0	20.8	104	20.0	20.9	105	0.273	75 - 123	30	
Dibromochloromethane	20.0	22.6	113	20.0	22.9	115	1.48	66 - 130	30	
Chloroethane	20.0	18.6	93.2	20.0	17.8	89.1	4.43	41 - 141	30	
Chloroform	20.0	19.9	99.4	20.0	20.4	102	2.50	72 - 124	30	
Chloromethane	20.0	12.6	63.2	20.0	12.3	61.3	2.99	51 - 129	30	
cis-1,2-Dichloroethene	20.0	22.4	112	20.0	22.2	111	0.778	67 - 125	30	
cis-1,3-Dichloropropene	20.0	20.8	104	20.0	20.8	104	0.250	72 - 126	30	
Ethylbenzene	20.0	21.9	109	20.0	21.7	109	0.653	74 - 127	30	
Methylene chloride	20.0	18.3	91.6	20.0	18.6	92.9	1.40	63 - 137	30	
Methyltert-butyl ether	20.0	21.4	107	20.0	21.9	110	2.50	50 - 135	30	
Styrene	20.0	20.0	99.8	20.0	20.2	101	1.06	74 - 128	30	
Tetrachloroethene	20.0	22.5	112	20.0	22.0	110	1.96	67 - 139	30	
Toluene	20.0	21.1	106	20.0	21.2	106	0.208	71 - 127	30	
trans-1,2-Dichloroethene	20.0	21.0	105	20.0	21.4	107	2.02	66 - 134	30	
trans-1,3-Dichloropropene	20.0	18.8	93.8	20.0	18.3	91.4	2.63	65 - 127	30	
Trichloroethene	20.0	22.9	115	20.0	23.4	117	1.96	77 - 124	30	
Vinyl acetate	20.0	14.7	73.7	20.0	14.4	72.0	2.22	55 - 130	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1105250
Report generated: 05/30/2008 15:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Analyst: TMB Prep Method: 5030B
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG272383 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26610

Sample ID: WG272383-02 LCS File ID: 9M62160 Run Date: 05/28/2008 12:06
Sample ID: WG272383-03 LCS2 File ID: 9M62161 Run Date: 05/28/2008 12:37

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	21.7	109	20.0	21.1	106	2.80	58 - 126	30	
Xylenes	60.0	64.6	108	60.0	64.6	108	0.0967	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	99.0	101	65 - 135	PASS
1,2-Dichloroethane-d4	86.5	86.7	70 - 121	PASS
Toluene-d8	98.8	98.4	86 - 138	PASS
4-Bromofluorobenzene	93.2	92.8	59 - 113	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1105250
Report generated: 05/30/2008 15:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050566
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268581

Tune ID: WG268581-01
Run Date: 04/17/2008
Run Time: 08:37
File ID: 6M74324
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.7	5835	PASS
75.0	95.0	30.0	60.0	54.3	12819	PASS
95.0	95.0	100	100	100	23626	PASS
96.0	95.0	5.00	9.00	6.76	1597	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	65.0	15368	PASS
175	174	5.00	9.00	6.51	1001	PASS
176	174	95.0	101	99.4	15270	PASS
177	176	5.00	9.00	6.11	933	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-02	STD	01	04/17/2008 09:07	
WG268581-06	STD	01	04/17/2008 11:22	
WG268581-07	STD	01	04/17/2008 11:55	
WG268581-08	STD-CCV	01	04/17/2008 12:30	
WG268581-09	STD	01	04/17/2008 13:03	
WG268581-10	STD	01	04/17/2008 13:36	
WG268581-11	STD	01	04/17/2008 14:09	
WG268581-05	STD	01	04/17/2008 16:28	
WG268581-04	STD	01	04/17/2008 17:01	
WG268581-03	STD	01	04/17/2008 17:34	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1107199
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050566
Instrument: HPMS6
Analyst: CMS
Workgroup: WG268744

Tune ID: WG268744-01
Run Date: 04/18/2008
Run Time: 11:41
File ID: 6M74346
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.1	6222	PASS
75.0	95.0	30.0	60.0	54.1	14553	PASS
95.0	95.0	100	100	100	26922	PASS
96.0	95.0	5.00	9.00	6.39	1719	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	61.5	16556	PASS
175	174	5.00	9.00	7.12	1179	PASS
176	174	95.0	101	98.6	16324	PASS
177	176	5.00	9.00	5.68	927	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268581-12	SSCV	01	04/18/2008 13:55	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1107199
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050566
Instrument: HPMS6
Analyst: CMS
Workgroup: WG272287

Tune ID: WG272287-01
Run Date: 05/27/2008
Run Time: 08:56
File ID: 6M75480
Cal ID: HPMS6-17-APR-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.4	9098	PASS
75.0	95.0	30.0	60.0	52.8	20504	PASS
95.0	95.0	100	100	100	38810	PASS
96.0	95.0	5.00	9.00	6.36	2468	PASS
173	174	0	2.00	0.463	115	PASS
174	95.0	50.0	100	64.1	24864	PASS
175	174	5.00	9.00	8.14	2024	PASS
176	174	95.0	101	100	24930	PASS
177	176	5.00	9.00	6.60	1646	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272287-02	CCV	01	05/27/2008 09:20	
WG272289-01	BLANK	01	05/27/2008 10:27	
WG272289-01	BLANK	01	05/27/2008 10:27	
WG272289-02	LCS	01	05/27/2008 11:00	
WG272289-06	LCS	01	05/27/2008 11:33	
L08050566-05	TB01-052308	01	05/27/2008 13:45	
WG272289-03	REF	DL01	05/27/2008 16:30	
WG272289-04	MS	DL01	05/27/2008 17:03	
WG272289-05	MSD	DL01	05/27/2008 17:36	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1107199
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050566
Instrument: HPMS9
Analyst: TMB
Workgroup: WG270933

Tune ID: WG270933-01
Run Date: 05/12/2008
Run Time: 11:07
File ID: 9M61795
Cal ID: HPMS9-02-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.0	3552	PASS
75.0	95.0	30.0	60.0	54.5	8072	PASS
95.0	95.0	100	100	100	14822	PASS
96.0	95.0	5.00	9.00	6.47	959	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	60.9	9034	PASS
175	174	5.00	9.00	8.38	757	PASS
176	174	95.0	101	95.6	8636	PASS
177	176	5.00	9.00	5.69	491	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270933-03	STD-S	01	05/12/2008 14:31	
WG270933-04	STD-S	01	05/12/2008 15:03	
WG270933-05	STD-S	01	05/12/2008 15:34	
WG270933-06	STD-S	01	05/12/2008 16:05	
WG270933-07	STD-S	01	05/12/2008 16:36	
WG270933-08	STD-CCV-S	01	05/12/2008 17:06	
WG270933-09	STD-S	01	05/12/2008 17:37	
WG270933-10	STD-S	01	05/12/2008 18:08	
WG270933-11	STD-S	01	05/12/2008 18:39	
WG270933-12	SSCV-S	01	05/12/2008 20:12	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1107199
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L08050566
Instrument: HPMS9
Analyst: TMB
Workgroup: WG272382

Tune ID: WG272382-01
Run Date: 05/28/2008
Run Time: 09:28
File ID: 9M62155
Cal ID: HPMS9-12-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.9	4054	PASS
75.0	95.0	30.0	60.0	52.0	10606	PASS
95.0	95.0	100	100	100	20407	PASS
96.0	95.0	5.00	9.00	6.51	1329	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	76.6	15626	PASS
175	174	5.00	9.00	8.04	1257	PASS
176	174	95.0	101	97.9	15291	PASS
177	176	5.00	9.00	6.06	927	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272382-02	CCV-S	01	05/28/2008 10:34	
WG272383-01	BLANK	01	05/28/2008 11:36	
WG272383-02	LCS	01	05/28/2008 12:06	
WG272383-03	LCS2	01	05/28/2008 12:37	
L08050566-01	1027-SS01-052308	01	05/28/2008 13:08	
L08050566-02	1028-SS01-052308	01	05/28/2008 13:39	
L08050566-03	1030-SS01-052308	01	05/28/2008 14:10	
L08050566-04	1031-SS01-052308	01	05/28/2008 14:41	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1107199
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050566 **Instrument ID:** HPMS6
Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34
ICAL Workgroup: WG268581 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.3223	21.7		1.00
1,2-Dichloropropane	CCC	0.2059	11.4		
Chloroform	CCC	0.4245	7.77		
Ethylbenzene	CCC	0.3544	14.0		
Toluene	CCC	0.9880	9.37		
Vinyl Chloride	CCC	0.1848	14.0		
1,1,2,2-Tetrachloroethane	SPCC	0.3941	11.3		
1,1-Dichloroethane	SPCC	0.4171	11.5		
Bromoform	SPCC	0.1346	18.5	1.00	
Chlorobenzene	SPCC	0.7123	4.25		
Chloromethane	SPCC	0.2801	7.35		
1,1,1-Trichloroethane		0.3724	21.9	1.00	
1,1,2-Trichloroethane		0.1864	5.86		
1,2,4-Trichlorobenzene		0.6579	6.63		
1,2-Dichlorobenzene		0.9364	5.40		
1,2-Dichloroethane		0.3502	4.00		
1,3-Dichlorobenzene		1.022	4.90		
1,4-Dichlorobenzene		1.092	3.52		
1,4-Dioxane		0.001133	35.0		0.991
2-Butanone		0.06587	11.1		
2-Hexanone		0.1291	11.8		
4-Methyl-2-Pentanone		0.05044	22.0	0.998	
Acetone		0.04653	7.11		
Acrylonitrile		0.04803	23.6		1.00
Benzene		0.7533	10.3		
Bromodichloromethane		0.3033	14.3		
Bromomethane		0.1167	38.7		1.00
Carbon Disulfide		0.5297	21.1		1.00
Carbon Tetrachloride		0.2937	24.1	1.00	
Chloroethane		0.1615	22.2		1.00
Dibromochloromethane		0.2280	16.2	1.00	
Methyl Tert Butyl Ether		0.4486	15.5		
Methylene Chloride		0.2016	11.2		
Styrene		0.7948	17.1		1.00
Tetrachloroethene		0.2174	14.0		
Trichloroethene		0.1669	19.2		1.00
Vinyl Acetate		0.3242	5.78		
cis-1,2-Dichloroethene		0.1906	14.2		
cis-1,3-Dichloropropene		0.3033	22.4		1.00
m-,p-Xylene		0.4460	13.9		
o-Xylene		0.4387	16.7		1.00
trans-1,2-Dichloroethene		0.1703	18.7		1.00
trans-1,3-Dichloropropene		0.4226	12.9		

INT_CAL - Modified 03/06/2008
PDF File ID: 1107198
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050566
Analytical Method: 8260B
ICAL Workgroup: WG268581

Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 1107198
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050566 **Instrument ID:** HPMS9
Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39
ICAL Workgroup: WG270933 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
1,1-Dichloroethene	CCC	0.4588	7.55		
1,2-Dichloropropane	CCC	0.2608	10.7		
Chloroform	CCC	0.5162	3.59		
Ethylbenzene	CCC	0.5626	9.19		
Toluene	CCC	1.724	12.5		
Vinyl Chloride	CCC	0.1858	12.0		
1,1,2,2-Tetrachloroethane	SPCC	0.7830	4.40		
1,1-Dichloroethane	SPCC	0.5553	3.69		
Bromoform	SPCC	0.1603	13.5		
Chlorobenzene	SPCC	1.026	3.24		
Chloromethane	SPCC	0.3160	14.7		
1,1,1-Trichloroethane		0.4383	6.48		
1,1,2-Trichloroethane		0.2955	6.26		
1,2,4-Trichlorobenzene		0.8378	12.8		
1,2-Dichlorobenzene		1.288	4.20		
1,2-Dichloroethane		0.4151	5.15		
1,3-Dichlorobenzene		1.452	3.94		
1,4-Dichlorobenzene		1.533	6.37		
1,4-Dioxane		0.001683	22.2	0.997	
2-Butanone		0.1054	8.74		
2-Hexanone		0.2294	14.2		
4-Methyl-2-Pentanone		0.07657	11.7		
Acetone		0.08272	28.3	0.999	
Acrylonitrile		0.07434	13.1		
Benzene		1.089	4.81		
Bromodichloromethane		0.3374	9.35		
Bromomethane		0.1093	8.38		
Carbon Disulfide		0.9167	5.80		
Carbon Tetrachloride		0.3112	13.7		
Chloroethane		0.1761	3.81		
Dibromochloromethane		0.2826	14.3		
Methyl Tert Butyl Ether		0.6528	12.5		
Methylene Chloride		0.2741	12.4		
Styrene		1.015	17.0	1.00	
Tetrachloroethene		0.3176	6.72		
Trichloroethene		0.2225	6.49		
Vinyl Acetate		0.4854	11.1		
cis-1,2-Dichloroethene		0.2590	6.95		
cis-1,3-Dichloropropene		0.3986	15.0		
m-,p-Xylene		0.6677	10.2		
o-Xylene		0.5964	19.4	1.00	
trans-1,2-Dichloroethene		0.2562	9.35		
trans-1,3-Dichloropropene		0.6074	14.3		

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Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L08050566
Analytical Method: 8260B
ICAL Workgroup: WG270933

Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	AVG RF	% RSD	LINEAR (R)	QUAD(R^2)

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	1.00	7093.00000	0.2582
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	5051.00000	0.1839
Chloroform	0.300	3813.00000	0.4238	0.400	4177.00000	0.3953	1.00	10990.0000	0.4000
Ethylbenzene	NA	NA	NA	0.400	2333.00000	0.3035	1.00	6244.00000	0.3128
Toluene	NA	NA	NA	0.400	7027.00000	0.9142	1.00	17568.0000	0.8802
Vinyl Chloride	NA	NA	NA	0.400	1684.00000	0.1594	1.00	5494.00000	0.2000
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1339.00000	0.3131	1.00	4089.00000	0.3658
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	1.00	10008.0000	0.3643
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2140.00000	0.1072
Chlorobenzene	NA	NA	NA	0.400	5272.00000	0.6859	1.00	13791.0000	0.6909
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	7787.00000	0.2835
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	1.00	7587.00000	0.2762
1,1,2-Trichloroethane	NA	NA	NA	0.400	1285.00000	0.1672	1.00	3704.00000	0.1856
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	2689.00000	0.6287	1.00	6958.00000	0.6224
1,2-Dichlorobenzene	0.300	3091.00000	0.8576	0.400	4000.00000	0.9353	1.00	10075.0000	0.9012
1,2-Dichloroethane	NA	NA	NA	0.400	3634.00000	0.3439	1.00	9523.00000	0.3466
1,3-Dichlorobenzene	NA	NA	NA	0.400	4191.00000	0.9799	1.00	11119.0000	0.9946
1,4-Dichlorobenzene	0.300	4089.00000	1.135	0.400	4893.00000	1.144	1.00	11757.0000	1.052
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	7108.00000	0.6726	1.00	18411.0000	0.6702
Bromodichloromethane	NA	NA	NA	0.400	2541.00000	0.2405	1.00	7121.00000	0.2592
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	1611.00000	0.05860
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	11751.0000	0.4277
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	1.00	5717.00000	0.2081
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	3438.00000	0.1251
Dibromochloromethane	NA	NA	NA	0.400	1320.00000	0.1717	1.00	3588.00000	0.1798
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	1.00	9325.00000	0.3394
Methylene Chloride	NA	NA	NA	NA	NA	NA	1.00	6632.00000	0.2414
Styrene	NA	NA	NA	NA	NA	NA	1.00	11488.0000	0.5756
Tetrachloroethene	NA	NA	NA	NA	NA	NA	1.00	3763.00000	0.1885
Trichloroethene	NA	NA	NA	NA	NA	NA	1.00	3623.00000	0.1319
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	1546.00000	0.1463	1.00	4737.00000	0.1724
cis-1,3-Dichloropropene	NA	NA	NA	0.400	2062.00000	0.1951	1.00	6617.00000	0.2409
m-,p-Xylene	NA	NA	NA	0.800	5491.00000	0.3572	2.00	15909.0000	0.3985
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	6824.00000	0.3419
trans-1,2-Dichloroethene	NA	NA	NA	0.400	1317.00000	0.1246	1.00	3871.00000	0.1409

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	11704.0000	0.2057	5.00	39967.0000	0.2960	20.0	210973.000	0.3754
1,2-Dichloropropane	2.00	9770.00000	0.1717	5.00	26235.0000	0.1943	20.0	119890.000	0.2133
Chloroform	2.00	20663.0000	0.3632	5.00	57384.0000	0.4250	20.0	259831.000	0.4623
Ethylbenzene	2.00	11462.0000	0.2815	5.00	34219.0000	0.3489	20.0	166968.000	0.4040
Toluene	2.00	35511.0000	0.8721	5.00	98405.0000	1.003	20.0	460399.000	1.114
Vinyl Chloride	2.00	8770.00000	0.1542	5.00	24211.0000	0.1793	20.0	127011.000	0.2260
1,1,2,2-Tetrachloroethane	2.00	8347.00000	0.3633	5.00	22149.0000	0.3944	20.0	99609.0000	0.4112
1,1-Dichloroethane	2.00	19558.0000	0.3438	5.00	53741.0000	0.3980	20.0	252955.000	0.4501
Bromoform	2.00	3892.00000	0.09560	5.00	12605.0000	0.1285	20.0	60095.0000	0.1454
Chlorobenzene	2.00	27110.0000	0.6658	5.00	70575.0000	0.7195	20.0	310688.000	0.7518
Chloromethane	2.00	14056.0000	0.2471	5.00	37656.0000	0.2789	20.0	169543.000	0.3017
1,1,1-Trichloroethane	2.00	14284.0000	0.2511	5.00	46362.0000	0.3434	20.0	240250.000	0.4275
1,1,2-Trichloroethane	2.00	6995.00000	0.1718	5.00	18567.0000	0.1893	20.0	80316.0000	0.1944
1,2,4-Trichlorobenzene	2.00	13797.0000	0.6005	5.00	35236.0000	0.6275	20.0	170762.000	0.7049
1,2-Dichlorobenzene	2.00	20148.0000	0.8769	5.00	52836.0000	0.9409	20.0	241736.000	0.9978
1,2-Dichloroethane	2.00	18683.0000	0.3284	5.00	49174.0000	0.3642	20.0	208067.000	0.3702
1,3-Dichlorobenzene	2.00	21553.0000	0.9381	5.00	56922.0000	1.014	20.0	260893.000	1.077
1,4-Dichlorobenzene	2.00	24026.0000	1.046	5.00	60389.0000	1.076	20.0	272238.000	1.124
1,4-Dioxane	50.0	741.000000	0.0005000	100	2184.00000	0.0008000	150	4937.00000	0.001200
2-Butanone	NA	NA	NA	5.00	7202.00000	0.05330	20.0	35956.0000	0.06400
2-Hexanone	NA	NA	NA	5.00	9934.00000	0.1013	20.0	50209.0000	0.1215
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4590.00000	0.03400	20.0	26580.0000	0.04730
Acetone	NA	NA	NA	5.00	6422.00000	0.04760	20.0	25598.0000	0.04550
Acrylonitrile	2.00	1760.00000	0.03090	5.00	5216.00000	0.03860	20.0	27758.0000	0.04940
Benzene	2.00	37198.0000	0.6539	5.00	100756.000	0.7463	20.0	458791.000	0.8164
Bromodichloromethane	2.00	14941.0000	0.2627	5.00	40999.0000	0.3037	20.0	186160.000	0.3312
Bromomethane	2.00	3691.00000	0.06490	5.00	12078.0000	0.08950	20.0	73020.0000	0.1299
Carbon Disulfide	2.00	21241.0000	0.3734	5.00	58973.0000	0.4368	20.0	343762.000	0.6117
Carbon Tetrachloride	2.00	10739.0000	0.1888	5.00	36796.0000	0.2725	20.0	197031.000	0.3506
Chloroethane	2.00	6644.00000	0.1168	5.00	17819.0000	0.1320	20.0	96918.0000	0.1725
Dibromochloromethane	2.00	8595.00000	0.2111	5.00	22302.0000	0.2274	20.0	104110.000	0.2519
Methyl Tert Butyl Ether	2.00	21662.0000	0.3808	5.00	56087.0000	0.4154	20.0	273014.000	0.4858
Methylene Chloride	2.00	10938.0000	0.1923	5.00	24838.0000	0.1840	20.0	103270.000	0.1838
Styrene	2.00	26279.0000	0.6454	5.00	75081.0000	0.7654	20.0	366268.000	0.8863
Tetrachloroethene	2.00	6882.00000	0.1690	5.00	20377.0000	0.2077	20.0	103033.000	0.2493
Trichloroethene	2.00	6771.00000	0.1190	5.00	20644.0000	0.1529	20.0	103831.000	0.1848
Vinyl Acetate	NA	NA	NA	5.00	38959.0000	0.2886	20.0	185549.000	0.3302
cis-1,2-Dichloroethene	2.00	9369.00000	0.1647	5.00	25212.0000	0.1867	20.0	119836.000	0.2132
cis-1,3-Dichloropropene	2.00	14338.0000	0.2521	5.00	39961.0000	0.2960	20.0	192254.000	0.3421
m-,p-Xylene	4.00	30558.0000	0.3752	10.0	88429.0000	0.4508	40.0	422748.000	0.5115
o-Xylene	2.00	13599.0000	0.3340	5.00	41797.0000	0.4261	20.0	204836.000	0.4957
trans-1,2-Dichloroethene	2.00	7868.00000	0.1383	5.00	22410.0000	0.1660	20.0	111072.000	0.1976

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS6

Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34

Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	562131.000	0.3769	100	1141885.00	0.3636	200	2436117.00	0.3805
1,2-Dichloropropane	50.0	322549.000	0.2163	100	704787.000	0.2244	200	1520359.00	0.2375
Chloroform	50.0	680375.000	0.4562	100	1393348.00	0.4437	200	2885625.00	0.4508
Ethylbenzene	50.0	445584.000	0.4038	100	969141.000	0.3965	200	2039560.00	0.3840
Toluene	50.0	1209595.00	1.096	100	2511236.00	1.027	200	5294261.00	0.9967
Vinyl Chloride	50.0	317455.000	0.2129	100	563286.000	0.1794	200	1071861.00	0.1674
1,1,2,2-Tetrachloroethane	50.0	272945.000	0.4203	100	615154.000	0.4430	200	1323514.00	0.4415
1,1-Dichloroethane	50.0	680789.000	0.4565	100	1406692.00	0.4479	200	2938297.00	0.4590
Bromoform	50.0	167457.000	0.1518	100	384923.000	0.1575	200	828892.000	0.1560
Chlorobenzene	50.0	822625.000	0.7455	100	1787747.00	0.7313	200	3759113.00	0.7077
Chloromethane	50.0	402302.000	0.2697	100	852946.000	0.2716	200	1973945.00	0.3083
1,1,1-Trichloroethane	50.0	650539.000	0.4362	100	1374210.00	0.4376	200	2782956.00	0.4347
1,1,2-Trichloroethane	50.0	214580.000	0.1945	100	474392.000	0.1941	200	1029927.00	0.1939
1,2,4-Trichlorobenzene	50.0	459816.000	0.7080	100	978864.000	0.7049	200	1997794.00	0.6664
1,2-Dichlorobenzene	50.0	644553.000	0.9924	100	1370231.00	0.9867	200	2814978.00	0.9389
1,2-Dichloroethane	50.0	539583.000	0.3618	100	1087561.00	0.3463	200	2177668.00	0.3402
1,3-Dichlorobenzene	50.0	698094.000	1.075	100	1482306.00	1.067	200	3086815.00	1.030
1,4-Dichlorobenzene	50.0	717858.000	1.105	100	1522735.00	1.097	200	3139083.00	1.047
1,4-Dioxane	200	7596.00000	0.001300	400	20165.0000	0.001600	NA	NA	NA
2-Butanone	50.0	99317.0000	0.06660	100	221029.000	0.07040	200	481146.000	0.07520
2-Hexanone	50.0	148924.000	0.1350	100	342021.000	0.1399	200	741638.000	0.1396
4-Methyl-2-Pentanone	50.0	74987.0000	0.05030	100	180280.000	0.05740	200	404576.000	0.06320
Acetone	50.0	70387.0000	0.04720	100	143288.000	0.04560	200	331088.000	0.05170
Acrylonitrile	50.0	78345.0000	0.05250	100	172536.000	0.05490	200	395960.000	0.06190
Benzene	50.0	1225188.00	0.8215	100	2621867.00	0.8349	200	5190201.00	0.8107
Bromodichloromethane	50.0	500728.000	0.3357	100	1070111.00	0.3408	200	2256520.00	0.3525
Bromomethane	50.0	223555.000	0.1499	100	499768.000	0.1591	200	1057992.00	0.1653
Carbon Disulfide	50.0	915546.000	0.6139	100	1888566.00	0.6014	200	4114624.00	0.6427
Carbon Tetrachloride	50.0	519252.000	0.3482	100	1082844.00	0.3448	200	2197062.00	0.3432
Chloroethane	50.0	279241.000	0.1872	100	623362.000	0.1985	200	1270360.00	0.1984
Dibromochloromethane	50.0	287162.000	0.2602	100	643565.000	0.2633	200	1373056.00	0.2585
Methyl Tert Butyl Ether	50.0	749527.000	0.5026	100	1578651.00	0.5027	200	3287582.00	0.5135
Methylene Chloride	50.0	276619.000	0.1855	100	630171.000	0.2007	200	1432491.00	0.2238
Styrene	50.0	1004569.00	0.9104	100	2200845.00	0.9003	200	4676870.00	0.8805
Tetrachloroethene	50.0	273731.000	0.2481	100	569707.000	0.2331	200	1199421.00	0.2258
Trichloroethene	50.0	278920.000	0.1870	100	612889.000	0.1952	200	1264126.00	0.1975
Vinyl Acetate	50.0	492502.000	0.3302	100	1057529.00	0.3368	200	2173766.00	0.3396
cis-1,2-Dichloroethene	50.0	319303.000	0.2141	100	662548.000	0.2110	200	1384922.00	0.2163
cis-1,3-Dichloropropene	50.0	528341.000	0.3543	100	1143283.00	0.3641	200	2442187.00	0.3815
m-,p-Xylene	100	1129083.00	0.5116	200	2425557.00	0.4961	400	4958617.00	0.4668
o-Xylene	50.0	552223.000	0.5004	100	1203757.00	0.4924	200	2553083.00	0.4806
trans-1,2-Dichloroethene	50.0	297999.000	0.1998	100	617709.000	0.1967	200	1269936.00	0.1984

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS6
Analytical Method: 8260B **Initial Calibration Date:** 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
1,4-Dioxane	600	27801.0000	0.001400
2-Butanone	300	672287.000	0.06570
2-Hexanone	300	1020911.00	0.1373
4-Methyl-2-Pentanone	NA	NA	NA
Acetone	300	425575.000	0.04160
Acrylonitrile	NA	NA	NA
Benzene	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Methyl Tert Butyl Ether	NA	NA	NA
Methylene Chloride	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Vinyl Acetate	300	3273009.00	0.3197
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
o-Xylene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-02			WG268581-03			WG268581-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	6737.00000	0.3375

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-05			WG268581-06			WG268581-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	2.00	14567.0000	0.3577	5.00	40654.0000	0.4145	20.0	193074.000	0.4672

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-08			WG268581-09			WG268581-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	50.0	518589.000	0.4700	100	1123613.00	0.4597	200	2400145.00	0.4519

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Microbac Laboratories Inc.
INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS6
Initial Calibration Date: 17-APR-08 17:34
Column ID: F

Analyte	WG268581-11		
	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	1.00	6393.00000	0.4071	2.00	13566.0000	0.4272
1,2-Dichloropropane	NA	NA	NA	1.00	3254.00000	0.2072	2.00	8013.00000	0.2523
Chloroform	NA	NA	NA	1.00	7976.00000	0.5079	2.00	15792.0000	0.4973
Ethylbenzene	NA	NA	NA	1.00	4761.00000	0.5005	2.00	9446.00000	0.4974
Toluene	NA	NA	NA	1.00	12626.0000	1.327	2.00	30014.0000	1.580
Vinyl Chloride	NA	NA	NA	NA	NA	NA	2.00	6925.00000	0.2181
1,1,2,2-Tetrachloroethane	NA	NA	NA	1.00	3345.00000	0.7776	2.00	6577.00000	0.7594
1,1-Dichloroethane	NA	NA	NA	1.00	8631.00000	0.5496	2.00	16963.0000	0.5342
Bromoform	NA	NA	NA	NA	NA	NA	2.00	2429.00000	0.1279
Chlorobenzene	NA	NA	NA	1.00	9933.00000	1.044	2.00	19044.0000	1.003
Chloromethane	NA	NA	NA	1.00	6439.00000	0.4100	2.00	10808.0000	0.3403
1,1,1-Trichloroethane	NA	NA	NA	1.00	6199.00000	0.3948	2.00	13170.0000	0.4147
1,1,2-Trichloroethane	NA	NA	NA	1.00	2516.00000	0.2645	2.00	5653.00000	0.2977
1,2,4-Trichlorobenzene	NA	NA	NA	1.00	2950.00000	0.6858	2.00	6557.00000	0.7571
1,2-Dichlorobenzene	NA	NA	NA	1.00	5430.00000	1.262	2.00	10544.0000	1.217
1,2-Dichloroethane	NA	NA	NA	1.00	6043.00000	0.3848	2.00	13057.0000	0.4112
1,3-Dichlorobenzene	NA	NA	NA	1.00	6160.00000	1.432	2.00	11894.0000	1.373
1,4-Dichlorobenzene	NA	NA	NA	1.00	7367.00000	1.713	2.00	13568.0000	1.567
1,4-Dioxane	NA	NA	NA	NA	NA	NA	50.0	960.000000	0.001200
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	2.00	4290.00000	0.2259
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	2.00	2075.00000	0.06530
Benzene	NA	NA	NA	1.00	15706.0000	1.000	2.00	34249.0000	1.079
Bromodichloromethane	NA	NA	NA	1.00	4703.00000	0.2995	2.00	9583.00000	0.3018
Bromomethane	NA	NA	NA	1.00	1597.00000	0.1017	2.00	3401.00000	0.1071
Carbon Disulfide	NA	NA	NA	1.00	15811.0000	1.007	2.00	29433.0000	0.9268
Carbon Tetrachloride	NA	NA	NA	1.00	3662.00000	0.2332	2.00	9059.00000	0.2853
Chloroethane	NA	NA	NA	1.00	2807.00000	0.1787	2.00	5257.00000	0.1655
Dibromochloromethane	NA	NA	NA	NA	NA	NA	2.00	4240.00000	0.2233
Methyl Tert Butyl Ether	NA	NA	NA	NA	NA	NA	2.00	17468.0000	0.5501
Methylene Chloride	NA	NA	NA	NA	NA	NA	2.00	10422.0000	0.3282
Styrene	NA	NA	NA	NA	NA	NA	2.00	13650.0000	0.7188
Tetrachloroethene	NA	NA	NA	1.00	2776.00000	0.2918	2.00	5518.00000	0.2906
Trichloroethene	NA	NA	NA	1.00	3175.00000	0.2022	2.00	6691.00000	0.2107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	2.00	14317.0000	0.4508
cis-1,2-Dichloroethene	NA	NA	NA	1.00	3619.00000	0.2305	2.00	7779.00000	0.2450
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	2.00	9719.00000	0.3060
m-,p-Xylene	1.00	5660.00000	0.5719	2.00	11146.0000	0.5858	4.00	23579.0000	0.6208
o-Xylene	NA	NA	NA	1.00	3824.00000	0.4020	2.00	9538.00000	0.5022
trans-1,2-Dichloroethene	NA	NA	NA	1.00	3365.00000	0.2143	2.00	7448.00000	0.2345

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	36896.0000	0.4476	20.0	156692.000	0.4683	50.0	412211.000	0.5025
1,2-Dichloropropane	5.00	21008.0000	0.2549	20.0	86489.0000	0.2585	50.0	235779.000	0.2874
Chloroform	5.00	42879.0000	0.5202	20.0	169069.000	0.5053	50.0	446055.000	0.5438
Ethylbenzene	5.00	26651.0000	0.5399	20.0	115596.000	0.5708	50.0	311046.000	0.6262
Toluene	5.00	83438.0000	1.690	20.0	356327.000	1.759	50.0	951503.000	1.916
Vinyl Chloride	5.00	16451.0000	0.1996	20.0	61278.0000	0.1832	50.0	155260.000	0.1893
1,1,2,2-Tetrachloroethane	5.00	18301.0000	0.7999	20.0	69709.0000	0.7375	50.0	197663.000	0.8470
1,1-Dichloroethane	5.00	46079.0000	0.5590	20.0	183109.000	0.5473	50.0	477051.000	0.5815
Bromoform	5.00	7264.00000	0.1471	20.0	30815.0000	0.1522	50.0	92350.0000	0.1859
Chlorobenzene	5.00	50596.0000	1.025	20.0	200813.000	0.9915	50.0	537818.000	1.083
Chloromethane	5.00	25485.0000	0.3092	20.0	97925.0000	0.2927	50.0	238892.000	0.2912
1,1,1-Trichloroethane	5.00	36085.0000	0.4378	20.0	148594.000	0.4441	50.0	388224.000	0.4733
1,1,2-Trichloroethane	5.00	14699.0000	0.2978	20.0	57520.0000	0.2840	50.0	160693.000	0.3235
1,2,4-Trichlorobenzene	5.00	17715.0000	0.7743	20.0	77361.0000	0.8185	50.0	225695.000	0.9672
1,2-Dichlorobenzene	5.00	29594.0000	1.293	20.0	117796.000	1.246	50.0	320823.000	1.375
1,2-Dichloroethane	5.00	35252.0000	0.4277	20.0	136303.000	0.4074	50.0	366257.000	0.4465
1,3-Dichlorobenzene	5.00	33534.0000	1.466	20.0	134724.000	1.425	50.0	361829.000	1.551
1,4-Dichlorobenzene	5.00	34966.0000	1.528	20.0	136799.000	1.447	50.0	364265.000	1.561
1,4-Dioxane	100	2487.00000	0.001500	150	3412.00000	0.001400	200	6625.00000	0.002000
2-Butanone	5.00	9520.00000	0.1155	20.0	30969.0000	0.09260	50.0	90902.0000	0.1108
2-Hexanone	5.00	8633.00000	0.1749	20.0	40072.0000	0.1979	50.0	127211.000	0.2561
4-Methyl-2-Pentanone	5.00	5157.00000	0.06260	20.0	23191.0000	0.06930	50.0	69458.0000	0.08470
Acetone	5.00	10220.0000	0.1240	20.0	23803.0000	0.07110	50.0	64842.0000	0.07900
Acrylonitrile	5.00	4904.00000	0.05950	20.0	22897.0000	0.06840	50.0	69006.0000	0.08410
Benzene	5.00	90941.0000	1.103	20.0	363548.000	1.087	50.0	951282.000	1.160
Bromodichloromethane	5.00	26456.0000	0.3210	20.0	112426.000	0.3360	50.0	309859.000	0.3777
Bromomethane	5.00	7993.00000	0.09700	20.0	34963.0000	0.1045	50.0	95227.0000	0.1161
Carbon Disulfide	5.00	71112.0000	0.8627	20.0	302228.000	0.9033	50.0	780732.000	0.9517
Carbon Tetrachloride	5.00	24711.0000	0.2998	20.0	109746.000	0.3280	50.0	291285.000	0.3551
Chloroethane	5.00	15115.0000	0.1834	20.0	56124.0000	0.1677	50.0	146967.000	0.1792
Dibromochloromethane	5.00	12361.0000	0.2504	20.0	55464.0000	0.2739	50.0	161009.000	0.3241
Methyl Tert Butyl Ether	5.00	47996.0000	0.5823	20.0	209936.000	0.6275	50.0	617880.000	0.7532
Methylene Chloride	5.00	24991.0000	0.3032	20.0	83872.0000	0.2507	50.0	218794.000	0.2667
Styrene	5.00	45367.0000	0.9190	20.0	205246.000	1.013	50.0	579871.000	1.167
Tetrachloroethene	5.00	15175.0000	0.3074	20.0	65599.0000	0.3239	50.0	170532.000	0.3433
Trichloroethene	5.00	17908.0000	0.2173	20.0	74427.0000	0.2225	50.0	198950.000	0.2425
Vinyl Acetate	5.00	34394.0000	0.4173	20.0	144304.000	0.4313	50.0	450260.000	0.5489
cis-1,2-Dichloroethene	5.00	21509.0000	0.2609	20.0	86093.0000	0.2573	50.0	229982.000	0.2804
cis-1,3-Dichloropropene	5.00	29275.0000	0.3551	20.0	130047.000	0.3887	50.0	372613.000	0.4542
m-,p-Xylene	10.0	66804.0000	0.6766	40.0	279515.000	0.6901	100	749507.000	0.7545
o-Xylene	5.00	27361.0000	0.5543	20.0	125671.000	0.6205	50.0	352077.000	0.7088
trans-1,2-Dichloroethene	5.00	21611.0000	0.2622	20.0	88416.0000	0.2643	50.0	229210.000	0.2794

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS9

Analytical Method: 8260B **Initial Calibration Date:** 12-MAY-08 18:39

Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	832531.000	0.4962	200	1504017.00	0.4625	NA	NA	NA
1,2-Dichloropropane	100	480649.000	0.2864	200	905931.000	0.2786	NA	NA	NA
Chloroform	100	903271.000	0.5383	200	1627555.00	0.5005	NA	NA	NA
Ethylbenzene	100	601327.000	0.6124	200	1121306.00	0.5909	NA	NA	NA
Toluene	100	1886524.00	1.921	200	3557692.00	1.875	NA	NA	NA
Vinyl Chloride	100	286506.000	0.1707	200	500174.000	0.1538	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	355195.000	0.7746	200	705193.000	0.7848	NA	NA	NA
1,1-Dichloroethane	100	977894.000	0.5828	200	1731421.00	0.5324	NA	NA	NA
Bromoform	100	169772.000	0.1729	200	333140.000	0.1756	NA	NA	NA
Chlorobenzene	100	1024707.00	1.044	200	1885988.00	0.9939	NA	NA	NA
Chloromethane	100	459282.000	0.2737	200	959711.000	0.2951	NA	NA	NA
1,1,1-Trichloroethane	100	790925.000	0.4714	200	1405524.00	0.4322	NA	NA	NA
1,1,2-Trichloroethane	100	302413.000	0.3080	200	555741.000	0.2929	NA	NA	NA
1,2,4-Trichlorobenzene	100	437389.000	0.9538	200	815612.000	0.9077	NA	NA	NA
1,2-Dichlorobenzene	100	614087.000	1.339	200	1152410.00	1.283	NA	NA	NA
1,2-Dichloroethane	100	723954.000	0.4314	200	1289849.00	0.3966	NA	NA	NA
1,3-Dichlorobenzene	100	683969.000	1.492	200	1278695.00	1.423	NA	NA	NA
1,4-Dichlorobenzene	100	687968.000	1.500	200	1268732.00	1.412	NA	NA	NA
1,4-Dioxane	400	13644.0000	0.002000	NA	NA	NA	600	20425.0000	0.002000
2-Butanone	100	170016.000	0.1013	200	320464.000	0.09850	300	575724.000	0.1134
2-Hexanone	100	232440.000	0.2367	200	475176.000	0.2504	300	762913.000	0.2640
4-Methyl-2-Pentanone	100	129991.000	0.07750	200	261419.000	0.08040	300	431135.000	0.08490
Acetone	100	119224.000	0.07110	200	222409.000	0.06840	NA	NA	NA
Acrylonitrile	100	138058.000	0.08230	200	261513.000	0.08040	300	407809.000	0.08040
Benzene	100	1908422.00	1.137	200	3443505.00	1.059	NA	NA	NA
Bromodichloromethane	100	618856.000	0.3688	200	1160199.00	0.3568	NA	NA	NA
Bromomethane	100	195989.000	0.1168	200	397037.000	0.1221	NA	NA	NA
Carbon Disulfide	100	1535985.00	0.9154	200	2765655.00	0.8504	NA	NA	NA
Carbon Tetrachloride	100	587410.000	0.3501	200	1063328.00	0.3270	NA	NA	NA
Chloroethane	100	299319.000	0.1784	200	585303.000	0.1800	NA	NA	NA
Dibromochloromethane	100	310238.000	0.3159	200	584740.000	0.3081	NA	NA	NA
Methyl Tert Butyl Ether	100	1236750.00	0.7370	200	2168088.00	0.6667	NA	NA	NA
Methylene Chloride	100	425995.000	0.2539	200	786904.000	0.2420	NA	NA	NA
Styrene	100	1129465.00	1.150	200	2126229.00	1.121	NA	NA	NA
Tetrachloroethene	100	331921.000	0.3380	200	623274.000	0.3285	NA	NA	NA
Trichloroethene	100	400818.000	0.2389	200	727344.000	0.2237	NA	NA	NA
Vinyl Acetate	100	891726.000	0.5314	200	1575238.00	0.4844	300	2710030.00	0.5340
cis-1,2-Dichloroethene	100	470924.000	0.2807	200	839787.000	0.2582	NA	NA	NA
cis-1,3-Dichloropropene	100	753697.000	0.4492	200	1426324.00	0.4386	NA	NA	NA
m-,p-Xylene	200	1453870.00	0.7403	400	2662835.00	0.7016	NA	NA	NA
o-Xylene	100	686142.000	0.6988	200	1305696.00	0.6881	NA	NA	NA
trans-1,2-Dichloroethene	100	469986.000	0.2801	200	839949.000	0.2583	NA	NA	NA

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-03			WG270933-04			WG270933-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	NA	NA	NA	1.00	4563.00000	0.4797	2.00	10288.0000	0.5417

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-06			WG270933-07			WG270933-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	5.00	27404.0000	0.5551	20.0	123023.000	0.6074	50.0	356535.000	0.7178

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566
Analytical Method: 8260B
Instrument ID: HPMS9
Initial Calibration Date: 12-MAY-08 18:39
Column ID: F

Analyte	WG270933-09			WG270933-10			WG270933-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
trans-1,3-Dichloropropene	100	677983.000	0.6905	200	1251013.00	0.6593	NA	NA	NA

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	20.4	ug/L	0.365	1.90	25	
1,2-Dichloropropane	CCC	20.0	21.5	ug/L	0.221	7.30	25	
Chloroform	CCC	20.0	21.8	ug/L	0.462	8.90	25	
Ethylbenzene	CCC	20.0	23.5	ug/L	0.416	17.3	25	
Toluene	CCC	20.0	22.5	ug/L	1.11	12.5	25	
Vinyl Chloride	CCC	20.0	24.1	ug/L	0.223	20.6	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.7	ug/L	0.409	3.70	25	
1,1-Dichloroethane	SPCC	20.0	22.1	ug/L	0.460	10.3	25	
Bromoform	SPCC	20.0	18.9	ug/L	0.141	5.60	25	
Chlorobenzene	SPCC	20.0	21.5	ug/L	0.767	7.70	25	
Chloromethane	SPCC	20.0	21.5	ug/L	0.302	7.70	25	
1,1,1-Trichloroethane		20.0	20.2	ug/L	0.431	1.20	25	
1,1,2-Trichloroethane		20.0	20.9	ug/L	0.195	4.60	25	
1,2,4-Trichlorobenzene		20.0	22.5	ug/L	0.739	12.3	25	
1,2-Dichlorobenzene		20.0	22.0	ug/L	1.03	10.1	25	
1,2-Dichloroethane		20.0	20.6	ug/L	0.360	2.80	25	
1,3-Dichlorobenzene		20.0	21.7	ug/L	1.11	8.60	25	
1,4-Dichlorobenzene		20.0	20.8	ug/L	1.14	4.10	25	
1,4-Dioxane		200	177	ug/L	0.00160	11.6	25	
2-Butanone		20.0	21.0	ug/L	0.0692	5.00	25	
2-Hexanone		20.0	18.7	ug/L	0.120	6.70	25	
4-Methyl-2-Pentanone		20.0	21.7	ug/L	0.0485	8.50	25	
Acetone		20.0	21.2	ug/L	0.0492	5.80	25	
Acrylonitrile		20.0	20.9	ug/L	0.0511	4.50	25	
Benzene		20.0	22.2	ug/L	0.835	10.9	25	
Bromodichloromethane		20.0	22.6	ug/L	0.343	13.1	25	
Bromomethane		20.0	18.3	ug/L	0.128	8.70	25	
Carbon Disulfide		20.0	19.0	ug/L	0.550	5.10	25	
Carbon Tetrachloride		20.0	20.8	ug/L	0.352	3.80	25	
Dibromochloromethane		20.0	19.5	ug/L	0.251	2.40	25	
Chloroethane		20.0	19.9	ug/L	0.182	0.600	25	
cis-1,2-Dichloroethene		20.0	23.4	ug/L	0.223	16.8	25	
cis-1,3-Dichloropropene		20.0	20.1	ug/L	0.346	0.600	25	
Methylene Chloride		20.0	19.0	ug/L	0.192	4.90	25	
Methyl Tert Butyl Ether		20.0	20.5	ug/L	0.501	2.60	25	
Styrene		20.0	20.3	ug/L	0.909	1.40	25	
Tetrachloroethene		20.0	23.2	ug/L	0.252	15.9	25	
trans-1,2-Dichloroethene		20.0	20.5	ug/L	0.200	2.40	25	
trans-1,3-Dichloropropene		20.0	18.9	ug/L	0.400	5.40	25	
Trichloroethene		20.0	21.4	ug/L	0.199	7.10	25	
Vinyl Acetate		20.0	10.5	ug/L	0.170	47.6	25	*
Xylenes		60.0	67.8	ug/L	0.517	12.9	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 04/18/2008 Sample ID: WG268581-12
Instrument ID: HPMS6 Run Time: 13:55 Method: 8260B
File ID: 6M74350 Analyst: CMS QC Key: DOWWV2006
ICal Workgroup: WG268581 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
o-Xylene		20.0	20.6	ug/L	0.508	2.80	25	
m-,p-Xylene		40.0	47.2	ug/L	0.526	18.0	25	
1,2-Dichloroethene		40.0	43.8	ug/L	0.211	9.60	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	20.0	19.5	ug/kg	0.447	2.50	25	
1,2-Dichloropropane	CCC	20.0	21.4	ug/kg	0.279	6.90	25	
Chloroform	CCC	20.0	20.6	ug/kg	0.532	3.00	25	
Ethylbenzene	CCC	20.0	22.1	ug/kg	0.623	10.7	25	
Toluene	CCC	20.0	21.9	ug/kg	1.89	9.70	25	
Vinyl Chloride	CCC	20.0	19.4	ug/kg	0.180	3.10	25	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/kg	0.871	11.2	25	
1,1-Dichloroethane	SPCC	20.0	20.2	ug/kg	0.562	1.20	25	
Bromoform	SPCC	20.0	21.3	ug/kg	0.171	6.40	25	
Chlorobenzene	SPCC	20.0	21.1	ug/kg	1.08	5.70	25	
Chloromethane	SPCC	20.0	16.8	ug/kg	0.265	16.1	25	
1,1,1-Trichloroethane		20.0	20.5	ug/kg	0.449	2.30	25	
1,1,2-Trichloroethane		20.0	22.3	ug/kg	0.329	11.3	25	
1,2,4-Trichlorobenzene		20.0	21.4	ug/kg	0.897	7.10	25	
1,2-Dichlorobenzene		20.0	21.7	ug/kg	1.40	8.60	25	
1,2-Dichloroethane		20.0	20.4	ug/kg	0.423	2.00	25	
1,3-Dichlorobenzene		20.0	21.4	ug/kg	1.55	7.10	25	
1,4-Dichlorobenzene		20.0	20.0	ug/kg	1.54	0.200	25	
1,4-Dioxane		150	216	ug/kg	0.00270	43.9	25	*
2-Butanone		20.0	23.4	ug/kg	0.124	17.2	25	
2-Hexanone		20.0	20.4	ug/kg	0.234	1.90	25	
4-Methyl-2-Pentanone		20.0	19.9	ug/kg	0.0763	0.400	25	
Acetone		20.0	22.2	ug/kg	0.0905	11.2	25	
Acrylonitrile		20.0	22.4	ug/kg	0.0834	12.1	25	
Benzene		20.0	20.8	ug/kg	1.13	4.10	25	
Bromodichloromethane		20.0	21.9	ug/kg	0.369	9.50	25	
Bromomethane		20.0	19.3	ug/kg	0.105	3.60	25	
Carbon Disulfide		20.0	17.0	ug/kg	0.781	14.8	25	
Carbon Tetrachloride		20.0	20.5	ug/kg	0.319	2.50	25	
Dibromochloromethane		20.0	21.7	ug/kg	0.307	8.60	25	
Chloroethane		20.0	19.0	ug/kg	0.168	4.80	25	
cis-1,2-Dichloroethene		20.0	21.2	ug/kg	0.275	6.20	25	
cis-1,3-Dichloropropene		20.0	20.8	ug/kg	0.414	3.80	25	
Methylene Chloride		20.0	19.2	ug/kg	0.263	4.10	25	
Methyl Tert Butyl Ether		20.0	21.2	ug/kg	0.692	6.00	25	
Styrene		20.0	20.0	ug/kg	1.11	0.200	25	
Tetrachloroethene		20.0	20.5	ug/kg	0.326	2.60	25	
trans-1,2-Dichloroethene		20.0	20.2	ug/kg	0.259	1.00	25	
trans-1,3-Dichloropropene		20.0	20.2	ug/kg	0.613	1.00	25	
Trichloroethene		20.0	20.8	ug/kg	0.231	4.00	25	
Vinyl Acetate		20.0	10.3	ug/kg	0.249	48.7	25	*
Xylenes		60.0	65.5	ug/kg	0.723	9.20	25	

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 05/12/2008 Sample ID: WG270933-12
Instrument ID: HPMS9 Run Time: 20:12 Method: 8260B
File ID: 9M61812 Analyst: TMB QC Key: DOWWV2006
ICal Workgroup: WG270933 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,2-Dichloroethene		40.0	41.4	ug/kg	0.267	3.60	25	
o-Xylene		20.0	20.5	ug/kg	0.694	2.60	25	
m-,p-Xylene		40.0	45.0	ug/kg	0.751	12.5	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272287-02
Instrument ID: HPMS6 Run Time: 09:20 Method: 8260B
File ID: 6M75481 Analyst: CMS QC Key: DOWWV2006
Workgroup (AAB#): WG272289 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	52.0	ug/L	0.378	3.93	20	
1,2-Dichloropropane	CCC	50.0	53.2	ug/L	0.219	6.49	20	
Chloroform	CCC	50.0	53.7	ug/L	0.456	7.43	20	
Ethylbenzene	CCC	50.0	57.5	ug/L	0.408	15.0	20	
Toluene	CCC	50.0	58.1	ug/L	1.15	16.1	20	
Vinyl Chloride	CCC	50.0	53.9	ug/L	0.199	7.75	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.6	ug/L	0.391	0.743	20	
1,1-Dichloroethane	SPCC	50.0	53.5	ug/L	0.447	7.08	20	
Bromoform	SPCC	50.0	48.0	ug/L	0.148	4.09	20	
Chlorobenzene	SPCC	50.0	51.9	ug/L	0.740	3.89	20	
Chloromethane	SPCC	50.0	50.0	ug/L	0.280	0.0814	20	
1,1,1-Trichloroethane		50.0	51.6	ug/L	0.446	3.13	20	
1,1,2-Trichloroethane		50.0	50.5	ug/L	0.188	1.04	20	
1,2,4-Trichlorobenzene		50.0	54.3	ug/L	0.715	8.67	20	
1,2-Dichlorobenzene		50.0	53.0	ug/L	0.992	5.97	20	
1,2-Dichloroethane		50.0	48.7	ug/L	0.341	2.59	20	
1,3-Dichlorobenzene		50.0	53.9	ug/L	1.10	7.81	20	
1,4-Dichlorobenzene		50.0	51.4	ug/L	1.12	2.88	20	
1,4-Dioxane		200	192	ug/L	0.00140	3.92	20	
2-Butanone		50.0	45.2	ug/L	0.0595	9.70	20	
2-Hexanone		50.0	44.4	ug/L	0.115	11.3	20	
4-Methyl-2-Pentanone		50.0	41.6	ug/L	0.0450	16.8	20	
Acetone		50.0	49.0	ug/L	0.0456	1.94	20	
Acrylonitrile		50.0	49.5	ug/L	0.0512	0.972	20	
Benzene		50.0	54.3	ug/L	0.818	8.58	20	
Bromodichloromethane		50.0	55.6	ug/L	0.337	11.2	20	
Bromomethane		50.0	56.7	ug/L	0.173	13.5	20	
Carbon Disulfide		50.0	52.3	ug/L	0.622	4.67	20	
Carbon Tetrachloride		50.0	52.5	ug/L	0.360	5.01	20	
Dibromochloromethane		50.0	49.8	ug/L	0.258	0.304	20	
Chloroethane		50.0	43.9	ug/L	0.168	12.2	20	
cis-1,2-Dichloroethene		50.0	57.6	ug/L	0.220	15.2	20	
cis-1,3-Dichloropropene		50.0	48.2	ug/L	0.340	3.70	20	
Methylene Chloride		50.0	47.1	ug/L	0.190	5.81	20	
Methyl Tert Butyl Ether		50.0	50.7	ug/L	0.505	1.47	20	
Styrene		50.0	49.6	ug/L	0.899	0.854	20	
Tetrachloroethene		50.0	59.5	ug/L	0.259	19.0	20	
trans-1,2-Dichloroethene		50.0	51.8	ug/L	0.204	3.55	20	
trans-1,3-Dichloropropene		50.0	53.3	ug/L	0.451	6.65	20	
Trichloroethene		50.0	51.4	ug/L	0.196	2.72	20	
Vinyl Acetate		50.0	19.4	ug/L	0.126	61.2	20	*
Xylenes		150	166	ug/L	0.508	10.5	20	

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272287-02

Instrument ID: HPMS6 Run Time: 09:20 Method: 8260B

File ID: 6M75481 Analyst: CMS QC Key: DOWWV2006

Workgroup (AAB#): WG272289 Cal ID: HPMS6 - 17-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	109	ug/L	0.212	9.37	20	
m-,p-Xylene		100	116	ug/L	0.516	15.6	20	
o-Xylene		50.0	50.2	ug/L	0.500	0.373	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/28/2008 Sample ID: WG272382-02
Instrument ID: HPMS9 Run Time: 10:34 Method: 8260B
File ID: 9M62157 Analyst: TMB QC Key: DOWWV2006
Workgroup (AAB#): WG272383 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloroethene	CCC	50.0	42.6	ug/kg	0.391	14.8	20	
1,2-Dichloropropane	CCC	50.0	47.3	ug/kg	0.247	5.37	20	
Chloroform	CCC	50.0	43.7	ug/kg	0.451	12.6	20	
Ethylbenzene	CCC	50.0	51.8	ug/kg	0.583	3.55	20	
Toluene	CCC	50.0	49.9	ug/kg	1.72	0.272	20	
Vinyl Chloride	CCC	50.0	47.4	ug/kg	0.176	5.24	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.5	ug/kg	0.744	4.92	20	
1,1-Dichloroethane	SPCC	50.0	39.6	ug/kg	0.439	20.9	20	*
Bromoform	SPCC	50.0	61.8	ug/kg	0.198	23.6	20	*
Chlorobenzene	SPCC	50.0	48.7	ug/kg	1.00	2.56	20	
Chloromethane	SPCC	50.0	42.6	ug/kg	0.270	14.7	20	
1,1,1-Trichloroethane		50.0	48.1	ug/kg	0.422	3.71	20	
1,1,2-Trichloroethane		50.0	48.9	ug/kg	0.289	2.10	20	
1,2,4-Trichlorobenzene		50.0	55.2	ug/kg	0.924	10.3	20	
1,2-Dichlorobenzene		50.0	49.2	ug/kg	1.27	1.56	20	
1,2-Dichloroethane		50.0	42.4	ug/kg	0.352	15.3	20	
1,3-Dichlorobenzene		50.0	49.1	ug/kg	1.42	1.88	20	
1,4-Dichlorobenzene		50.0	46.7	ug/kg	1.43	6.50	20	
1,4-Dioxane		200	218	ug/kg	0.00200	9.24	20	
2-Butanone		50.0	47.2	ug/kg	0.0994	5.70	20	
2-Hexanone		50.0	47.4	ug/kg	0.218	5.14	20	
4-Methyl-2-Pentanone		50.0	54.8	ug/kg	0.0838	9.52	20	
Acetone		50.0	46.1	ug/kg	0.0683	7.78	20	
Acrylonitrile		50.0	51.0	ug/kg	0.0758	1.99	20	
Benzene		50.0	49.1	ug/kg	1.07	1.79	20	
Bromodichloromethane		50.0	51.0	ug/kg	0.344	2.09	20	
Bromomethane		50.0	60.5	ug/kg	0.132	21.1	20	*
Carbon Disulfide		50.0	44.0	ug/kg	0.808	11.9	20	
Carbon Tetrachloride		50.0	53.2	ug/kg	0.331	6.44	20	
Dibromochloromethane		50.0	57.5	ug/kg	0.325	14.9	20	
Chloroethane		50.0	47.8	ug/kg	0.168	4.37	20	
cis-1,2-Dichloroethene		50.0	46.3	ug/kg	0.240	7.36	20	
cis-1,3-Dichloropropene		50.0	52.9	ug/kg	0.422	5.89	20	
Methylene Chloride		50.0	41.6	ug/kg	0.228	16.7	20	
Methyl Tert Butyl Ether		50.0	52.0	ug/kg	0.680	4.09	20	
Styrene		50.0	48.5	ug/kg	1.09	3.04	20	
Tetrachloroethene		50.0	52.5	ug/kg	0.334	5.01	20	
trans-1,2-Dichloroethene		50.0	45.7	ug/kg	0.234	8.68	20	
trans-1,3-Dichloropropene		50.0	51.6	ug/kg	0.627	3.23	20	
Trichloroethene		50.0	54.8	ug/kg	0.244	9.58	20	
Vinyl Acetate		50.0	46.4	ug/kg	0.450	7.28	20	
Xylenes		150	152	ug/kg	0.676	1.41	20	

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/28/2008 Sample ID: WG272382-02

Instrument ID: HPMS9 Run Time: 10:34 Method: 8260B

File ID: 9M62157 Analyst: TMB QC Key: DOWWV2006

Workgroup (AAB#): WG272383 Cal ID: HPMS9 - 12-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloroethene		100	92.0	ug/kg	0.237	8.02	20	
m-,p-Xylene		100	104	ug/kg	0.698	4.47	20	
o-Xylene		50.0	47.6	ug/kg	0.654	4.70	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566
Instrument ID: HPMS6
Workgroup (AAB#): WG272289

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	324738	551732	745710
Upper Limit	NA	NA	649476	1103464	1491420
Lower Limit	NA	NA	162369	275866	372855
L08050566-05	1.00	01	182324	339117	468975
WG272289-01	1.00	01	230033	422495	592779
WG272289-02	1.00	01	258765	443619	612217
WG272289-06	1.00	01	237114	434369	617568

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
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Report generated 05/30/2008 15:43

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566
Instrument ID: HPMS9
Workgroup (AAB#): WG272383

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	233359	496719	820327
Upper Limit	NA	NA	466718	993438	1640654
Lower Limit	NA	NA	116680	248360	410164
L08050566-01	1.00	01	211378	445231	713970
L08050566-02	1.00	01	209292	438805	695300
L08050566-03	1.00	01	203536	439915	704069
L08050566-04	1.00	01	172344	404811	669834
WG272383-01	1.00	01	233363	485518	751625
WG272383-02	1.00	01	220299	455012	712949
WG272383-03	1.00	01	230417	476311	747776

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1107200
Report generated 05/30/2008 15:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566
Instrument ID: HPMS6
Workgroup (AAB#): WG272289

ICAL CCV Number: WG268581-08
CAL ID: HPMS6-17-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268581-08	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08050566-05	1.00	01	18.86	15.29	10.82
WG272289-01	1.00	01	18.86	15.3	10.83
WG272289-02	1.00	01	18.86	15.3	10.82
WG272289-06	1.00	01	18.85	15.3	10.82

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
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Report generated: 05/30/2008 15:43

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566
Instrument ID: HPMS9
Workgroup (AAB#): WG272383

ICAL CCV Number: WG270933-08
CAL ID: HPMS9-12-MAY-08
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG270933-08	NA	NA	15.2	12.23	8.39
Upper Limit	NA	NA	15.7	12.73	8.89
Lower Limit	NA	NA	14.7	11.73	7.89
L08050566-01	1.00	01	15.2	12.23	8.39
L08050566-02	1.00	01	15.21	12.23	8.38
L08050566-03	1.00	01	15.21	12.23	8.38
L08050566-04	1.00	01	15.21	12.23	8.38
WG272383-01	1.00	01	15.21	12.23	8.38
WG272383-02	1.00	01	15.2	12.23	8.38
WG272383-03	1.00	01	15.2	12.23	8.39

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
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2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Microbac Laboratories Inc.
GC/MS SEMIVOLATILE ORGANICS

Microbac Login No: L08050566

METHOD

Preparation: Soils - SW-846 3545; Waters - SW-846 3510C or 3520C

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 Calibration: 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: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: The LCS yielded recoveries for 4 compounds that were below the lower acceptance limits. The LCS yielded a recovery for bis(2-chloroethoxy)methane that was below the lower acceptance limit. All other acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Manual Integration Reason Codes

Microbac laboratory management has identified four general cases with valid reasons supporting the use of manual integration techniques.

Reason #1: Data System Fails to Select Correct Peak
In some cases the chromatography system selects and integrates the ”wrong peak”. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.
This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds.
This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous
Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: MES, CAA

Approved: 30-MAY-08

LABORATORY REPORT

L08050566

06/20/08 14:49

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER
Invoice Number: 594451
P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0127-SO01-052308	L08050566-01	8270C	1	23-MAY-08
0128-SO01-052308	L08050566-02	8270C	1	23-MAY-08
0131-SO01-052308	L08050566-03	8270C	1	23-MAY-08
0132-SO01-052308	L08050566-04	8270C	1	23-MAY-08

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Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-01**
Client ID: **0127-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272361**
Collect Date: **05/23/2008 10:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/27/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/27/2008 18:25**
File ID: **4M42957**
Percent Solid: **93.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	170	84.9
2,4,6-Trichlorophenol	88-06-2		U	170	84.9
2,4-Dichlorophenol	120-83-2		U	170	84.9
2,4-Dimethylphenol	105-67-9		U	170	84.9
2,4-Dinitrophenol	51-28-5		U	849	424
2,4-Dinitrotoluene	121-14-2		U	170	84.9
2,6-Dinitrotoluene	606-20-2		U	170	84.9
2-Chloronaphthalene	91-58-7		U	170	84.9
2-Chlorophenol	95-57-8		U	170	84.9
2-Methylnaphthalene	91-57-6		U	170	84.9
2-Methylphenol	95-48-7		U	170	84.9
2-Nitroaniline	88-74-4		U	849	424
2-Nitrophenol	88-75-5		U	170	84.9
3,3'-Dichlorobenzidine	91-94-1		U	340	170
3-,4-Methylphenol	106-44-5		U	170	84.9
3-Nitroaniline	99-09-2		U	849	424
4,6-Dinitro-2-methylphenol	534-52-1		U	849	424
4-Bromophenyl phenyl ether	101-55-3		U	170	84.9
4-Chloro-3-methylphenol	59-50-7		U	170	84.9
4-Chloroaniline	106-47-8		U	170	84.9
4-Chlorophenyl phenyl ether	7005-72-3		U	170	84.9
4-Nitroaniline	100-01-6		U	849	424
4-Nitrophenol	100-02-7		U	849	424
Acenaphthene	83-32-9		U	170	84.9
Acenaphthylene	208-96-8		U	170	84.9
Anthracene	120-12-7		U	170	84.9
Benzo(a)anthracene	56-55-3		U	170	84.9
Benzo(a)pyrene	50-32-8		U	170	84.9
Benzo(b)fluoranthene	205-99-2		U	170	84.9
Benzo(g,h,i)Perylene	191-24-2		U	170	84.9
Benzo(k)fluoranthene	207-08-9		U	170	84.9
Bis(2-Chloroethoxy)Methane	111-91-1		U	170	84.9
Bis(2-Chloroethyl)ether	111-44-4		U	170	84.9
bis(2-Chloroisopropyl)ether	39638-32-9		U	170	84.9
bis(2-Ethylhexyl)phthalate	117-81-7		U	170	84.9
Butyl benzyl phthalate	85-68-7		U	170	84.9
Carbazole	86-74-8		U	170	84.9
Chrysene	218-01-9		U	170	84.9
Dibenz(a,h)anthracene	53-70-3		U	170	84.9
Dibenzofuran	132-64-9		U	170	84.9
Diethyl phthalate	84-66-2		U	170	84.9
Dimethyl phthalate	131-11-3		U	170	84.9
Di-N-Butylphthalate	84-74-2		U	170	84.9
Di-n-octyl phthalate	117-84-0		U	170	84.9
Fluoranthene	206-44-0		U	170	84.9
Fluorene	86-73-7		U	170	84.9
Hexachlorobenzene	118-74-1		U	170	84.9
Hexachlorobutadiene	87-68-3		U	170	84.9
Hexachlorocyclopentadiene	77-47-4		U	170	84.9
Hexachloroethane	67-72-1		U	170	84.9
Indeno(1,2,3-cd)pyrene	193-39-5		U	170	84.9
Isophorone	78-59-1		U	170	84.9
Naphthalene	91-20-3		U	170	84.9
Nitrobenzene	98-95-3		U	170	84.9
N-Nitrosodiphenylamine	86-30-6		U	170	84.9
N-Nitrosodipropylamine	621-64-7		U	170	84.9
Pentachlorophenol	87-86-5		U	849	424
Phenanthrene	85-01-8		U	170	84.9
Phenol	108-95-2		U	170	84.9

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-01	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0127-SO01-052308	Prep Method:	3545	Prep Date:	05/27/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG272361	Analyst:	MES	Run Date:	05/27/2008 18:25
Collect Date:	05/23/2008 10:50	Dilution:	1	File ID:	4M42957
Sample Tag:	01	Units:	ug/kg	Percent Solid:	93.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	170	84.9

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	73.7	19	122	
2-Fluorobiphenyl	111	30	115	
2-Fluorophenol	91.3	25	121	
Nitrobenzene-d5	110	23	120	
p-Terphenyl-d14	119	18	137	
Phenol-d5	99.2	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-02**
Client ID: **0128-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272361**
Collect Date: **05/23/2008 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/27/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/27/2008 18:57**
File ID: **4M42958**
Percent Solid: **84.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	188	94.1
2,4,6-Trichlorophenol	88-06-2		U	188	94.1
2,4-Dichlorophenol	120-83-2		U	188	94.1
2,4-Dimethylphenol	105-67-9		U	188	94.1
2,4-Dinitrophenol	51-28-5		U	941	470
2,4-Dinitrotoluene	121-14-2		U	188	94.1
2,6-Dinitrotoluene	606-20-2		U	188	94.1
2-Chloronaphthalene	91-58-7		U	188	94.1
2-Chlorophenol	95-57-8		U	188	94.1
2-Methylnaphthalene	91-57-6		U	188	94.1
2-Methylphenol	95-48-7		U	188	94.1
2-Nitroaniline	88-74-4		U	941	470
2-Nitrophenol	88-75-5		U	188	94.1
3,3'-Dichlorobenzidine	91-94-1		U	376	188
3-,4-Methylphenol	106-44-5		U	188	94.1
3-Nitroaniline	99-09-2		U	941	470
4,6-Dinitro-2-methylphenol	534-52-1		U	941	470
4-Bromophenyl phenyl ether	101-55-3		U	188	94.1
4-Chloro-3-methylphenol	59-50-7		U	188	94.1
4-Chloroaniline	106-47-8		U	188	94.1
4-Chlorophenyl phenyl ether	7005-72-3		U	188	94.1
4-Nitroaniline	100-01-6		U	941	470
4-Nitrophenol	100-02-7		U	941	470
Acenaphthene	83-32-9		U	188	94.1
Acenaphthylene	208-96-8		U	188	94.1
Anthracene	120-12-7		U	188	94.1
Benzo(a)anthracene	56-55-3		U	188	94.1
Benzo(a)pyrene	50-32-8		U	188	94.1
Benzo(b)fluoranthene	205-99-2		U	188	94.1
Benzo(g,h,i)Perylene	191-24-2		U	188	94.1
Benzo(k)fluoranthene	207-08-9		U	188	94.1
Bis(2-Chloroethoxy)Methane	111-91-1		U	188	94.1
Bis(2-Chloroethyl)ether	111-44-4		U	188	94.1
bis(2-Chloroisopropyl)ether	39638-32-9		U	188	94.1
bis(2-Ethylhexyl)phthalate	117-81-7		U	188	94.1
Butyl benzyl phthalate	85-68-7		U	188	94.1
Carbazole	86-74-8		U	188	94.1
Chrysene	218-01-9		U	188	94.1
Dibenz(a,h)anthracene	53-70-3		U	188	94.1
Dibenzofuran	132-64-9		U	188	94.1
Diethyl phthalate	84-66-2		U	188	94.1
Dimethyl phthalate	131-11-3		U	188	94.1
Di-N-Butylphthalate	84-74-2		U	188	94.1
Di-n-octyl phthalate	117-84-0		U	188	94.1
Fluoranthene	206-44-0		U	188	94.1
Fluorene	86-73-7		U	188	94.1
Hexachlorobenzene	118-74-1		U	188	94.1
Hexachlorobutadiene	87-68-3		U	188	94.1
Hexachlorocyclopentadiene	77-47-4		U	188	94.1
Hexachloroethane	67-72-1		U	188	94.1
Indeno(1,2,3-cd)pyrene	193-39-5		U	188	94.1
Isophorone	78-59-1		U	188	94.1
Naphthalene	91-20-3		U	188	94.1
Nitrobenzene	98-95-3		U	188	94.1
N-Nitrosodiphenylamine	86-30-6		U	188	94.1
N-Nitrosodipropylamine	621-64-7		U	188	94.1
Pentachlorophenol	87-86-5		U	941	470
Phenanthrene	85-01-8		U	188	94.1
Phenol	108-95-2		U	188	94.1

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-02	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0128-SO01-052308	Prep Method:	3545	Prep Date:	05/27/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG272361	Analyst:	MES	Run Date:	05/27/2008 18:57
Collect Date:	05/23/2008 11:20	Dilution:	1	File ID:	4M42958
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	188	94.1

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	67.9	19	122	
2-Fluorobiphenyl	90.4	30	115	
2-Fluorophenol	79.5	25	121	
Nitrobenzene-d5	95.6	23	120	
p-Terphenyl-d14	102	18	137	
Phenol-d5	83.1	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-03**
Client ID: **0131-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272361**
Collect Date: **05/23/2008 12:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/27/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/27/2008 19:29**
File ID: **4M42959**
Percent Solid: **84.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	191	95.4
2,4,6-Trichlorophenol	88-06-2		U	191	95.4
2,4-Dichlorophenol	120-83-2		U	191	95.4
2,4-Dimethylphenol	105-67-9		U	191	95.4
2,4-Dinitrophenol	51-28-5		U	954	476
2,4-Dinitrotoluene	121-14-2		U	191	95.4
2,6-Dinitrotoluene	606-20-2		U	191	95.4
2-Chloronaphthalene	91-58-7		U	191	95.4
2-Chlorophenol	95-57-8		U	191	95.4
2-Methylnaphthalene	91-57-6		U	191	95.4
2-Methylphenol	95-48-7		U	191	95.4
2-Nitroaniline	88-74-4		U	954	476
2-Nitrophenol	88-75-5		U	191	95.4
3,3'-Dichlorobenzidine	91-94-1		U	382	191
3-,4-Methylphenol	106-44-5		U	191	95.4
3-Nitroaniline	99-09-2		U	954	476
4,6-Dinitro-2-methylphenol	534-52-1		U	954	476
4-Bromophenyl phenyl ether	101-55-3		U	191	95.4
4-Chloro-3-methylphenol	59-50-7		U	191	95.4
4-Chloroaniline	106-47-8		U	191	95.4
4-Chlorophenyl phenyl ether	7005-72-3		U	191	95.4
4-Nitroaniline	100-01-6		U	954	476
4-Nitrophenol	100-02-7		U	954	476
Acenaphthene	83-32-9		U	191	95.4
Acenaphthylene	208-96-8		U	191	95.4
Anthracene	120-12-7		U	191	95.4
Benzo(a)anthracene	56-55-3		U	191	95.4
Benzo(a)pyrene	50-32-8		U	191	95.4
Benzo(b)fluoranthene	205-99-2		U	191	95.4
Benzo(g,h,i)Perylene	191-24-2		U	191	95.4
Benzo(k)fluoranthene	207-08-9		U	191	95.4
Bis(2-Chloroethoxy)Methane	111-91-1		U	191	95.4
Bis(2-Chloroethyl)ether	111-44-4		U	191	95.4
bis(2-Chloroisopropyl)ether	39638-32-9		U	191	95.4
bis(2-Ethylhexyl)phthalate	117-81-7		U	191	95.4
Butyl benzyl phthalate	85-68-7		U	191	95.4
Carbazole	86-74-8		U	191	95.4
Chrysene	218-01-9		U	191	95.4
Dibenz(a,h)anthracene	53-70-3		U	191	95.4
Dibenzofuran	132-64-9		U	191	95.4
Diethyl phthalate	84-66-2		U	191	95.4
Dimethyl phthalate	131-11-3		U	191	95.4
Di-N-Butylphthalate	84-74-2		U	191	95.4
Di-n-octyl phthalate	117-84-0		U	191	95.4
Fluoranthene	206-44-0		U	191	95.4
Fluorene	86-73-7		U	191	95.4
Hexachlorobenzene	118-74-1		U	191	95.4
Hexachlorobutadiene	87-68-3		U	191	95.4
Hexachlorocyclopentadiene	77-47-4		U	191	95.4
Hexachloroethane	67-72-1		U	191	95.4
Indeno(1,2,3-cd)pyrene	193-39-5		U	191	95.4
Isophorone	78-59-1		U	191	95.4
Naphthalene	91-20-3		U	191	95.4
Nitrobenzene	98-95-3		U	191	95.4
N-Nitrosodiphenylamine	86-30-6		U	191	95.4
N-Nitrosodipropylamine	621-64-7		U	191	95.4
Pentachlorophenol	87-86-5		U	954	476
Phenanthrene	85-01-8		U	191	95.4
Phenol	108-95-2		U	191	95.4

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-03	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0131-SO01-052308	Prep Method:	3545	Prep Date:	05/27/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG272361	Analyst:	MES	Run Date:	05/27/2008 19:29
Collect Date:	05/23/2008 12:10	Dilution:	1	File ID:	4M42959
Sample Tag:	01	Units:	ug/kg	Percent Solid:	84.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	191	95.4

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	56.2	19	122	
2-Fluorobiphenyl	54.4	30	115	
2-Fluorophenol	56.0	25	121	
Nitrobenzene-d5	67.9	23	120	
p-Terphenyl-d14	89.6	18	137	
Phenol-d5	62.2	24	113	

U Not detected at or above the reporting limit

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number: **L08050566-04**
Client ID: **0132-SO01-052308**
Matrix: **Soil**
Workgroup Number: **WG272361**
Collect Date: **05/23/2008 12:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS4**
Prep Date: **05/27/2008 08:00**
Cal Date: **05/01/2008 18:20**
Run Date: **05/28/2008 14:23**
File ID: **4M42974**
Percent Solid: **96.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
2,4,5-Trichlorophenol	95-95-4		U	169	84.3
2,4,6-Trichlorophenol	88-06-2		U	169	84.3
2,4-Dichlorophenol	120-83-2		U	169	84.3
2,4-Dimethylphenol	105-67-9		U	169	84.3
2,4-Dinitrophenol	51-28-5		U	843	421
2,4-Dinitrotoluene	121-14-2		U	169	84.3
2,6-Dinitrotoluene	606-20-2		U	169	84.3
2-Chloronaphthalene	91-58-7		U	169	84.3
2-Chlorophenol	95-57-8		U	169	84.3
2-Methylnaphthalene	91-57-6		U	169	84.3
2-Methylphenol	95-48-7		U	169	84.3
2-Nitroaniline	88-74-4		U	843	421
2-Nitrophenol	88-75-5		U	169	84.3
3,3'-Dichlorobenzidine	91-94-1		U	337	169
3-,4-Methylphenol	106-44-5		U	169	84.3
3-Nitroaniline	99-09-2		U	843	421
4,6-Dinitro-2-methylphenol	534-52-1		U	843	421
4-Bromophenyl phenyl ether	101-55-3		U	169	84.3
4-Chloro-3-methylphenol	59-50-7		U	169	84.3
4-Chloroaniline	106-47-8		U	169	84.3
4-Chlorophenyl phenyl ether	7005-72-3		U	169	84.3
4-Nitroaniline	100-01-6		U	843	421
4-Nitrophenol	100-02-7		U	843	421
Acenaphthene	83-32-9		U	169	84.3
Acenaphthylene	208-96-8		U	169	84.3
Anthracene	120-12-7		U	169	84.3
Benzo(a)anthracene	56-55-3		U	169	84.3
Benzo(a)pyrene	50-32-8		U	169	84.3
Benzo(b)fluoranthene	205-99-2		U	169	84.3
Benzo(g,h,i)Perylene	191-24-2		U	169	84.3
Benzo(k)fluoranthene	207-08-9		U	169	84.3
Bis(2-Chloroethoxy)Methane	111-91-1		U	169	84.3
Bis(2-Chloroethyl)ether	111-44-4		U	169	84.3
bis(2-Chloroisopropyl)ether	39638-32-9		U	169	84.3
bis(2-Ethylhexyl)phthalate	117-81-7		U	169	84.3
Butyl benzyl phthalate	85-68-7		U	169	84.3
Carbazole	86-74-8		U	169	84.3
Chrysene	218-01-9		U	169	84.3
Dibenz(a,h)anthracene	53-70-3		U	169	84.3
Dibenzofuran	132-64-9		U	169	84.3
Diethyl phthalate	84-66-2		U	169	84.3
Dimethyl phthalate	131-11-3		U	169	84.3
Di-N-Butylphthalate	84-74-2		U	169	84.3
Di-n-octyl phthalate	117-84-0		U	169	84.3
Fluoranthene	206-44-0		U	169	84.3
Fluorene	86-73-7		U	169	84.3
Hexachlorobenzene	118-74-1		U	169	84.3
Hexachlorobutadiene	87-68-3		U	169	84.3
Hexachlorocyclopentadiene	77-47-4		U	169	84.3
Hexachloroethane	67-72-1		U	169	84.3
Indeno(1,2,3-cd)pyrene	193-39-5		U	169	84.3
Isophorone	78-59-1		U	169	84.3
Naphthalene	91-20-3		U	169	84.3
Nitrobenzene	98-95-3		U	169	84.3
N-Nitrosodiphenylamine	86-30-6		U	169	84.3
N-Nitrosodipropylamine	621-64-7		U	169	84.3
Pentachlorophenol	87-86-5		U	843	421
Phenanthrene	85-01-8		U	169	84.3
Phenol	108-95-2		U	169	84.3

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-04	PrePrep Method:	NONE	Instrument:	HPMS4
Client ID:	0132-SO01-052308	Prep Method:	3545	Prep Date:	05/27/2008 08:00
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	05/01/2008 18:20
Workgroup Number:	WG272361	Analyst:	MES	Run Date:	05/28/2008 14:23
Collect Date:	05/23/2008 12:15	Dilution:	1	File ID:	4M42974
Sample Tag:	01	Units:	ug/kg	Percent Solid:	96.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0		U	169	84.3

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	68.5	19	122	
2-Fluorobiphenyl	48.0	30	115	
2-Fluorophenol	49.0	25	121	
Nitrobenzene-d5	56.0	23	120	
p-Terphenyl-d14	73.6	18	137	
Phenol-d5	54.9	24	113	

U Not detected at or above the reporting limit

2.2.1.2 QC Summary Data

Example 8270 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	1261197
Cis = Concentration of the specific internal standard (ug/mL)	40
Ais = Area of the characteristic ion of the specific internal standard	608044
Cx = Concentration of the compound in the standard being measured (ug/mL)	50
RF = Calculated Response Factor	**1.65935**

2.0 Calculating the concentration (C) of a compound in water using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Vi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Vi = Initial volume of sample extracted from prep log (mL)	1021
Cx = Concentration of the compound in the sample being measured (ug/mL)	0.016947
Cx = Concentration of the compound in the sample being measured (ug/L)	**16.947**

3.0 Calculating the concentration (C) of a compound in soil using the data from the prep log and quantitation report: *

Cx = [(Ax) (Cis) (Vf) (D)] / [(Ais) (RF) (Wi)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured	367250
Cis = Concentration of the specific internal standard (ug/mL)	40
Vf = Final volume of sample extract from prep log (mL)	1
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	511641
RF = Average RF from the ICAL	1.65935
Wi = Initial weight of sample extracted (g) from prep log	30
Cx = Concentration of the compound in the sample being measured (ug/g)	0.576763
Cx = Concentration of the compound in the sample being measured (ug/kg)	**576.7627**

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	**1153.525** ug/kg

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve plot

b = intercept from curve plot

Step 2: Calculate y from Quantitation Report

y = 16790/784838 = 0.02139

Step 3: Solve for x

x = (y - b)/m = [(0.02139 -(- 0.0435)]/ 0.0783 = 0.829

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.829) = 20.72 ug/L

Example Spreadsheet Calculation:

Slope from curve, m:	0.0783	
Intercept from curve, b:	-0.0435	
Area of analyte, Ax:	16790	
Area of Internal Standard , Ais:	784484	
Concentration of IS, Cis	25.00	ug/L
Response Ratio (y) :	0.021403	
Amount Ratio:	0.828897	
Concentration (Cx):	20.72241	ug/L

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**0.0259**	
Value of B from plot:	**0.0596**	
Value of C from plot:	**-0.0165**	
Area of analyte from quantitation report:	**203233**	
Area of IS from quantiation report:	**1425653**	
Response ratio, y:	**0.142554**	
C - y:	**-0.15905**	
Root 1 - Computed amount ratio , X1:	**-3.88278**	
Root 2 - Computed amount ratio , X2:	**1.581623**	use this solution
Concentration of IS, Cis:	**40.00**	
Concentration of analyte, Cx:	**63.26**	ug/L

Sample Extract Log Sheet R1459655

Microbac

Parameter: BNA Soil SOP #: EXA5E01 Revision #: 6
Extraction Analyst(s): CPD, RAH TV/KD Analyst(s): RAH
Date/Time Extracted: 5/27/08 0800 Date TV/KD: 5/27/08
Spike/Surrogate Analyst: RAH Witness: CPD
Surrogate #: STD260608 Earliest Hold Date: 6/6/08
Spike #: A = STD260607 Spike #: B = —

Extraction Work Group WG272275
Extract Relinquished By: RAH
Extract Received By & Date: mj 5/27/08

	Sample ID	Test Code	pH <2	pH N	pH >12	Initial Vol / Wt	Amount Surrogate	Amount Spike	Final Volume	Extract Color	Emulsions A	Emulsions BN	Emulsions N	Comments
1	Blank					20.00g	500 uL		1 mL	T				WG 272275-01
2	LCS					1		500uL		C				WG -02
3	LCS DUP					1		1		C				-03
4	05-056601	8270SPE				20.90g				C				
5	-02	1				20.85g				C				
6	-03	1				20.56g				C				
7	-04	1				20.40g				O				
8	05-0319-04	8270				20.88g				C				REEXT IN HOLD
9	05-033401	8270SPE1				20.15g	1		1	C				1
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

RAH 5/27/08

Methylene Chloride Lot #: G06E30
Hexane Lot #: —
Ether Lot #: —
Methanol Lot #: —
Solvent: — Lot #: —
Reagent: Sand Lot #: E32599
Reagent: DE Lot #: G01466
Reagent: — Lot #: —
Acid: 1:1 Acetic Lot #: RGT12759
Florisil Lot #: —
Silica Gel Lot #: —
IR Analyst / Date / Time: —
Dried Na_2SO_4 Lot #: COA12940

Color Code
T = Transparent
C = Colored
O = Opaque

SW-846 Method			On	Off	On	Off
Continuous	3520C					
Soxhlet	3540C					
ASE*	3545	✓				
Sep Funnel	3510C					
Sonication	3550B					
Waste	3580A					

* Accelerated Solvent Extractor (ASE)

Clean-ups			
Florisil 3620B		GPC 3640A	
Silica Gel 3630C		Other	
Acid 3665A		N/A	✓
Sulfur 3660B			

Peer Reviewed By: Chadwick Davis Date: 5-27-8

Extraction Notes For Volume # 300 Page # 65

General Comments: None

Extraction Anomalies: None

Concentration Anomalies: None

Clean-Up Anomalies: NA

Supervisor Review: _____ Date: _____

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS4 Dataset: 050108
Analyst1: CAA Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23966

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG270019, WG270218
Internal STD: COA13022 Surrogate STD: NA Calibration STD

Comments: 4M42576 thru 4M42586 Not reported.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M42576	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 08:53
2	4M42577	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 09:07
3	4M42578	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 09:53
4	4M42579	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 10:11
5	4M42580	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 10:43
6	4M42581	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 11:48
7	4M42582	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 12:03
8	4M42583	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 12:28
9	4M42584	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 12:46
10	4M42585	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:21
11	4M42586	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:35
12	4M42587	WG270026-01 50PPM DFTPP STD	1	1	STD25193	05/01/08 13:58
13	4M42588	WG270026-02 50PPM MEGAMIX STD	1	1	STD25568	05/01/08 14:16
14	4M42589	WG270026-03 3 PPM MEGAMIX STD	1	1	STD25568	05/01/08 15:12
15	4M42590	WG270026-04 10 PPM MEGAMIX STD	1	1	STD25568	05/01/08 15:44
16	4M42591	WG270026-05 15 PPM MEGAMIX STD	1	1	STD25568	05/01/08 16:15
17	4M42592	WG270026-06 25 PPM MEGAMIX STD	1	1	STD25568	05/01/08 16:46
18	4M42593	WG270026-07 80 PPM MEGAMIX STD	1	1	STD25568	05/01/08 17:17
19	4M42594	WG270026-08 100 PPM MEGAMIX STD	1	1	STD25568	05/01/08 17:48
20	4M42595	WG270026-09 120 PPM MEGAMIX STD	1	1	STD25568	05/01/08 18:20
21	4M42596	WG270026-10 50PPM BNA ALT SOURCE	1	1	STD24887	05/01/08 18:52
22	4M42597	WG270026-11 50PPM A9 ALT SOURCE	1	1	STD24013	05/01/08 19:23
23	4M42598	WG269996-02 BLANK EP0298 PG131	7	1		05/01/08 19:55
24	4M42599	WG269996-03 LCS EP0298 PG131	7	1		05/01/08 20:26
25	4M42600	L08040484-02 SOIL	7	1		05/01/08 20:57
26	4M42601	L08040508-03 SOIL	7	1		05/01/08 21:29
27	4M42602	L08040508-04 SOIL	7	1		05/01/08 22:02
28	4M42603	L08040508-07 SOIL	7	1		05/01/08 22:33
29	4M42604	L08040557-01 SOIL	7	1		05/01/08 23:05
30	4M42605	L08040557-02 SOIL	7	1		05/01/08 23:37
31	4M42606	L08040557-03 SOIL	7	1		05/02/08 00:09
32	4M42607	L08040557-04 SOIL	7	1		05/02/08 00:41
33	4M42608	L08040687-17 SOIL	7	1		05/02/08 01:12
34	4M42609	BAKE OUT	7	1		05/02/08 01:43
35	4M42610	BAKE OUT	7	1		05/02/08 02:15

Page: 1 Approved: 02-MAY-08

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Instrument Run Log

Instrument: HPMS4 Dataset: 050108

Analyst1: CAA Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 23966

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG270019, WG270218

Internal STD: COA13022 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Approved: 02-MAY-08

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS4 Dataset: 052708
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24330

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG272189,WG272105,WG272360,WG272361

Internal STD: COA13114 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M42940	WG272317-01 50PPM DFTPP STD	1	1	STD25193	05/27/08 09:57
2	4M42941	WG272317-01 50PPM DFTPP STD	1	1	STD25193	05/27/08 10:12
3	4M42942	WG272317-01 50PPM DFTPP STD	1	1	STD25193	05/27/08 10:42
4	4M42943	WG272317-02 50PPM MEGAMIX STD	1	1	STD25568	05/27/08 11:01
5	4M42944	L08050408-07 D1 10X	1	10		05/27/08 11:32
6	4M42945	L08050408-11 D1 20X	1	20		05/27/08 12:04
7	4M42946	L08050449-03 D1 5X	1	5		05/27/08 12:36
8	4M42947	L08050449-04 D1 5X	1	5		05/27/08 13:08
9	4M42948	L08050449-05 D1 2X	1	2		05/27/08 13:40
10	4M42949	WG272142-01 BLANK EP0299 PG159	2	1		05/27/08 14:11
11	4M42950	WG272142-02 LCS EP0299 PG159	2	1		05/27/08 14:43
12	4M42951	WG272142-03 LCSDUP EP0299 PG159	2	1		05/27/08 15:14
13	4M42952	WG272275-01 BLANK EP0300 PG65	7	1	SOIL	05/27/08 15:46
14	4M42953	WG272275-02 LCS EP0300 PG65	7	1	SOIL	05/27/08 16:18
15	4M42954	WG272275-03 LCSDUP EP0300 PG65	7	1	SOIL	05/27/08 16:49
16	4M42955	L08050334-01 RE SOIL	7	1	SOIL	05/27/08 17:20
17	4M42956	L08050319-04 RE SOIL	7	1	SOIL	05/27/08 17:52
18	4M42957	L08050566-01 SOIL	7	1	SOIL	05/27/08 18:25
19	4M42958	L08050566-02 SOIL	7	1	SOIL	05/27/08 18:57
20	4M42959	L08050566-03 SOIL	7	1	SOIL	05/27/08 19:29
21	4M42960	L08050566-04 SOIL	7	1	SOIL	05/27/08 20:01
22	4M42961	BAKE OUT	1	1		05/27/08 20:33
23	4M42962	BAKE OUT	1	1		05/27/08 21:04
24	4M42963	L08050516-01	2	1		05/27/08 21:36
25	4M42964	BAKE OUT	2	1		05/27/08 22:07
26	4M42965	BAKE OUT	2	1		05/27/08 22:39

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
2				
	RR, DFTPP failed. Retuned MS.			
13				
	tbp and TPH are high.			

Page: 1 Approved: 28-MAY-08

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Instrument Run Log

Instrument: HPMS4 Dataset: 052708

Analyst1: MES Analyst2: NA

Method: 8270C SOP: MSS01 Rev: 14

Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24330

Column 1 ID: RXI-5MS Column 2 ID: NA

Workgroups: WG272189,WG272105,WG272360,WG272361

Internal STD: COA13114 Surrogate STD: NA

Comments

Seq.	Rerun	Dil.	Reason	Analytes
14				
	PRY is high. RR. tbp is high.			
15				
	PRY is high. RR. tbp and FBP are high.			
16				
	tbp is low. FBP,NBZ, and TPH are high. May need reextracted.			
17				
	tbp and TPH are high. PRY is high. RR for IS.			
21				
	tbp and TPH are high.			
24				
	tbp,FBP,NBZ, and TPH are high. Reextract.			

Approved: 28-MAY-08

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Instrument Run Log

Instrument: HPMS4 Dataset: 052808
Analyst1: MES Analyst2: NA
Method: 8270C SOP: MSS01 Rev: 14
Method: 625 SOP: MSS02 Rev: 8

Maintenance Log ID: 24344

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG272361,WG272494
Internal STD: COA13114 Surrogate STD: NA Calibration STD

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	4M42966	WG272421-01 50PPM DFTPP STD	1	1	STD25193	05/28/08 10:39
2	4M42967	WG272421-01 50PPM DFTPP STD	1	1	STD25193	05/28/08 10:58
3	4M42968	WG272421-02 50PPM MEGAMIX STD	1	1	STD25568	05/28/08 11:15
4	4M42969	WG272275-01 BLANK EP0300 PG65	7	1	SOIL	05/28/08 11:47
5	4M42970	WG272275-02 LCS EP0300 PG65	7	1	SOIL	05/28/08 12:18
6	4M42971	WG272275-03 LCSDUP EP0300 PG65	7	1	SOIL	05/28/08 12:50
7	4M42972	L08050319-04 RE SOIL	7	1	SOIL	05/28/08 13:21
8	4M42973	L08050334-01 RE SOIL	7	1	SOIL	05/28/08 13:52
9	4M42974	L08050566-04 SOIL	7	1	SOIL	05/28/08 14:23
10	4M42975	BAKE OUT	7	1		05/28/08 14:54
11	4M42976	L08050516-01 625	2	1		05/28/08 15:26
12	4M42977	WG272368-01 BLANK EP0299 PG165	1	1		05/28/08 16:07
13	4M42978	WG272368-02 LCS EP0299 PG165	1	1		05/28/08 16:38
14	4M42979	WG272368-03 LCSDUP EP0299 PG165	1	1		05/28/08 17:10
15	4M42980	L08050334-01 RE TCLP	17	1		05/28/08 17:41
16	4M42981	L08050545-02	1	1		05/28/08 18:13
17	4M42982	L08050564-01	1	1		05/28/08 18:45
18	4M42983	L08050571-03	1	1		05/28/08 19:17
19	4M42984	L08050579-01	1	1		05/28/08 19:49
20	4M42985	L08050586-02	1	1		05/28/08 20:21
21	4M42986	L08050586-03	1	1		05/28/08 20:53
22	4M42987	L08050586-04	1	1		05/28/08 21:25
23	4M42988	BAKE OUT	1	1		05/28/08 21:56
24	4M42989	L08050516-01 RE 62	2	1		05/28/08 22:28
25	4M42990	BAKE OUT	2	1		05/28/08 22:59

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
	RR, DFTPP failed. Quicktune.			
8				
	Confirms low SS.			
11				
	Do not report.			

Approved: 29-MAY-08

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 01-MAY-2008
Analyst: CAA
Analyst: MES
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 21969
Analytical Workgroups: L08040484, L08040508, L040557, L08040687

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	X
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	X
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	CAA
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
02-MAY-2008

Secondary Reviewer:
02-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-02-2008 14:58:31

Microbac Laboratories Inc.

Data Checklist

Date: 27-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 22408
Analytical Workgroups: L08050516,L08050408,L08050449,L08050566,L08050319,L08050334

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
28-MAY-2008

Secondary Reviewer:
28-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-28-2008 12:41:33

Microbac Laboratories Inc.

Data Checklist

Date: 28-MAY-2008
Analyst: MES
Analyst: NA
Method: 8270
Instrument: HPMS4
Curve Workgroup: NA
Runlog ID: 22425
Analytical Workgroups: L08050334,L08050516,L08050545,L08050564,L08050571,L08050579,L0

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	X
Endrin/DDT breakdown (8081/MS)	X
Pentachlorophenol/benzidine tailing (MS)	X
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	X
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	X
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	X
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	X
Surrogate recoveries	X
Internal standard areas (MS)	X
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	MES
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
29-MAY-2008

Secondary Reviewer:
29-MAY-2008

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-29-2008 10:17:45

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8270C **AAB#:** WG272361

Login Number: L08050566

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
0128-SO01-052308	05/23/08	05/23/08	05/27/08	14	3.86	05/27/08	40	0.456	
0131-SO01-052308	05/23/08	05/23/08	05/27/08	14	3.83	05/27/08	40	0.478	
0132-SO01-052308	05/23/08	05/23/08	05/27/08	14	3.82	05/28/08	40	1.27	
0127-SO01-052308	05/23/08	05/23/08	05/27/08	14	3.88	05/27/08	40	0.434	

*** EXT = SEE PROJECT QAPP REQUIREMENTS**
***ANAL = SEE PROJECT QAPP REQUIREMENTS**

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1104604
Report generated 06/20/2008 15:10

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L08050566
Instrument Id: HPMS4
Workgroup (AAB#): WG272361

Method: 8270
CAL ID: HPMS4-01-MAY-08
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4	5	6
L08050566-01	1.00	01	73.7	111	91.3	110	119	99.2
L08050566-02	1.00	01	67.9	90.4	79.5	95.6	102	83.1
L08050566-03	1.00	01	56.2	54.4	56.0	67.9	89.6	62.2
L08050566-04	1.00	01	68.5	48.0	49.0	56.0	73.6	54.9
WG272275-01	1.00	01	65.9	54.6	49.8	51.6	71.7	50.3
WG272275-02	1.00	01	67.8	48.4	45.6	46.2	60.5	47.6
WG272275-03	1.00	01	81.2	61.9	54.4	54.4	66.5	57.7

Surrogates	Surrogate Limits		
1 - 2,4,6-Tribromophenol	19	-	122
2 - 2-Fluorobiphenyl	30	-	115
3 - 2-Fluorophenol	25	-	121
4 - Nitrobenzene-d5	23	-	120
5 - p-Terphenyl-d14	18	-	137
6 - Phenol-d5	24	-	113

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 1104431
Report generated: 05/29/2008 16:13

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L08050566
Work Group: WG272361
Blank File ID: 4M42969
Blank Sample ID: WG272275-01
Prep Date: 05/27/08 08:00
Instrument ID: HPMS4
Analyzed Date: 05/28/08 11:47
Method: 8270C
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
0127-SO01-052308	L08050566-01	4M42957	05/27/08 18:25	01
0128-SO01-052308	L08050566-02	4M42958	05/27/08 18:57	01
0131-SO01-052308	L08050566-03	4M42959	05/27/08 19:29	01
LCS	WG272275-02	4M42970	05/28/08 12:18	01
LCS2	WG272275-03	4M42971	05/28/08 12:50	01
0132-SO01-052308	L08050566-04	4M42974	05/28/08 14:23	01

Report Name: BLANK_SUMMARY
PDF File ID: 1104605
Report generated 06/20/2008 15:10

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L08050566 Prep Date:05/27/08 08:00 Sample ID:WG272275-01
Instrument ID:HPMS4 Run Date:05/28/08 11:47 Prep Method:3545
File ID:4M42969 Analyst:MES Method:8270C
Workgroup (AAB#):WG272361 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS4-01-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U
Dimethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1104429
29-MAY-2008 16:13

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L08050566 Prep Date: 05/27/08 08:00 Sample ID: WG272275-01
Instrument ID: HPMS4 Run Date: 05/28/08 11:47 Prep Method: 3545
File ID: 4M42969 Analyst: MES Method: 8270C
Workgroup (AAB#): WG272361 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS4-01-MAY-08

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	65.9	19	-	122	PASS
2-Fluorobiphenyl	54.6	30	-	115	PASS
2-Fluorophenol	49.8	25	-	121	PASS
Nitrobenzene-d5	51.6	23	-	120	PASS
p-Terphenyl-d14	71.7	18	-	137	PASS
Phenol-d5	50.3	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1104429
29-MAY-2008 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Analyst: MES Prep Method: 3545
Instrument ID: HPMS4 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG272361 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG272275-02 LCS File ID: 4M42970 Run Date: 05/28/2008 12:18
Sample ID: WG272275-03 LCS2 File ID: 4M42971 Run Date: 05/28/2008 12:50

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2,4,5-Trichlorophenol	2500	1380	55.3	2500	1770	70.8	24.5	49 - 125	30	
2,4,6-Trichlorophenol	2500	1310	52.4	2500	1700	68.1	26.1	43 - 125	30	
2,4-Dichlorophenol	2500	1110	44.3	2500	1430	57.2	25.4	45 - 125	30	*
2,4-Dimethylphenol	2500	1170	46.8	2500	1460	58.6	22.5	32 - 125	30	
2,4-Dinitrophenol	2500	1630	65.3	2500	1900	76.0	15.1	25 - 132	30	
2,4-Dinitrotoluene	2500	1680	67.3	2500	1950	78.1	14.8	48 - 125	30	
2,6-Dinitrotoluene	2500	1500	59.9	2500	1760	70.2	15.9	48 - 125	30	
2-Chloronaphthalene	2500	1100	43.8	2500	1400	55.9	24.2	45 - 125	30	*
2-Chlorophenol	2500	1140	45.6	2500	1420	56.9	22.1	44 - 125	30	
2-Methylnaphthalene	2500	1150	46.0	2500	1450	57.9	23.1	47 - 125	30	*
2-Methylphenol	2500	1170	46.9	2500	1470	58.8	22.6	40 - 125	30	
2-Nitroaniline	2500	1530	61.3	2500	1690	67.4	9.51	44 - 125	30	
2-Nitrophenol	2500	1130	45.4	2500	1420	56.8	22.3	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1480	59.3	2500	1730	69.2	15.4	20 - 128	30	
3-,4-Methylphenol	2500	1330	53.1	2500	1690	67.7	24.2	50 - 120	30	
3-Nitroaniline	2500	1590	63.7	2500	1790	71.5	11.6	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	1570	62.6	2500	1870	74.8	17.7	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1320	52.9	2500	1570	62.6	16.9	46 - 125	30	
4-Chloro-3-methylphenol	2500	1220	48.9	2500	1500	60.1	20.6	46 - 125	30	
4-Chloroaniline	2500	985	39.4	2500	1190	47.5	18.6	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1340	53.7	2500	1630	65.0	19.0	47 - 125	30	
4-Nitroaniline	2500	1550	61.9	2500	1710	68.3	9.76	34 - 125	30	
4-Nitrophenol	2500	1290	51.4	2500	1460	58.3	12.5	25 - 138	30	
Acenaphthene	2500	1360	54.3	2500	1690	67.5	21.6	46 - 125	30	
Acenaphthylene	2500	1340	53.6	2500	1670	66.7	21.8	44 - 125	30	
Anthracene	2500	1620	64.9	2500	1860	74.4	13.5	53 - 125	30	
Benzo(a)anthracene	2500	1490	59.5	2500	1730	69.1	15.0	52 - 125	30	
Benzo(a)pyrene	2500	1300	52.1	2500	1540	61.5	16.5	50 - 125	30	
Benzo(b)fluoranthene	2500	1300	51.9	2500	1420	56.7	8.85	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1350	53.8	2500	1610	64.4	17.8	38 - 126	30	
Benzo(k)fluoranthene	2500	1320	52.7	2500	1490	59.7	12.3	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	856	34.2	2500	1060	42.4	21.3	43 - 125	30	*
Bis(2-Chloroethyl)ether	2500	1120	44.7	2500	1330	53.1	17.2	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1020	40.9	2500	1210	48.3	16.7	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1530	61.2	2500	1790	71.6	15.7	47 - 127	30	
Butyl benzyl phthalate	2500	1620	64.7	2500	1870	74.9	14.6	49 - 125	30	
Carbazole	2500	1670	66.7	2500	1900	75.9	12.9	40 - 135	30	
Chrysene	2500	1530	61.4	2500	1780	71.1	14.6	53 - 125	30	
Dibenz(a,h)anthracene	2500	1350	53.8	2500	1610	64.5	18.1	41 - 125	30	
Dibenzofuran	2500	1390	55.6	2500	1690	67.7	19.6	51 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1104430
Report generated: 05/29/2008 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L08050566 Analyst: MES Prep Method: 3545
Instrument ID: HPMS4 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG272361 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD26069

Sample ID: WG272275-02 LCS File ID: 4M42970 Run Date: 05/28/2008 12:18
Sample ID: WG272275-03 LCS2 File ID: 4M42971 Run Date: 05/28/2008 12:50

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diethyl phthalate	2500	1620	64.9	2500	1870	74.9	14.4	50 - 125	30	
Dimethyl phthalate	2500	1500	60.1	2500	1760	70.3	15.7	49 - 125	30	
Di-N-Butylphthalate	2500	1660	66.2	2500	1910	76.4	14.2	56 - 125	30	
Di-n-octyl phthalate	2500	1330	53.3	2500	1530	61.3	14.0	41 - 132	30	
Fluoranthene	2500	1660	66.4	2500	1920	76.7	14.4	54 - 125	30	
Fluorene	2500	1450	57.8	2500	1700	68.1	16.3	49 - 125	30	
Hexachlorobenzene	2500	1610	64.4	2500	1930	77.2	18.0	47 - 125	30	
Hexachlorobutadiene	2500	1220	48.9	2500	1580	63.1	25.4	40 - 125	30	
Hexachlorocyclopentadiene	2500	954	38.2	2500	1280	51.3	29.3	10 - 150	30	
Hexachloroethane	2500	1170	47.0	2500	1410	56.4	18.3	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1360	54.4	2500	1630	65.1	18.0	38 - 125	30	
Isophorone	2500	1200	48.0	2500	1500	60.2	22.4	43 - 125	30	
Naphthalene	2500	1100	44.0	2500	1350	54.0	20.3	40 - 125	30	
Nitrobenzene	2500	1160	46.3	2500	1370	54.9	17.1	41 - 125	30	
N-Nitrosodiphenylamine	2500	1320	52.6	2500	1510	60.2	13.5	49 - 125	30	
N-Nitrosodipropylamine	2500	1160	46.5	2500	1450	58.0	21.9	40 - 125	30	
Pentachlorophenol	2500	1970	79.0	2500	2350	94.1	17.4	25 - 125	30	
Phenanthrene	2500	1600	64.0	2500	1830	73.2	13.5	50 - 125	30	
Phenol	2500	1180	47.1	2500	1450	58.1	21.0	39 - 125	30	
Pyrene	2500	1530	61.1	2500	1760	70.2	13.9	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2-Fluorophenol	45.6	54.4	25 - 121	PASS
Phenol-d5	47.6	57.7	24 - 113	PASS
Nitrobenzene-d5	46.2	54.4	23 - 120	PASS
2-Fluorobiphenyl	48.4	61.9	30 - 115	PASS
2,4,6-Tribromophenol	67.8	81.2	19 - 122	PASS
p-Terphenyl-d14	60.5	66.5	18 - 137	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1104430
Report generated: 05/29/2008 16:13

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050566
Instrument: HPMS4
Analyst: MES
Workgroup: WG270026

Tune ID: WG270026-01
Run Date: 05/01/2008
Run Time: 13:58
File ID: 4M42587
Cal ID: HPMS4-01-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	39.8	42258	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	40.1	42557	PASS
70.0	69.0	0	2.00	0.573	244	PASS
127	198	40.0	60.0	51.3	54544	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	106253	PASS
199	198	5.00	9.00	6.43	6833	PASS
275	198	10.0	30.0	24.1	25616	PASS
365	198	1.00	100	2.87	3049	PASS
441	443	0.0100	100	86.1	14807	PASS
442	198	40.0	100	83.5	88757	PASS
443	442	17.0	23.0	19.4	17190	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG270026-02	STD-CCV	01	05/01/2008 14:16	
WG270026-03	STD	01	05/01/2008 15:12	
WG270026-04	STD	01	05/01/2008 15:44	
WG270026-05	STD	01	05/01/2008 16:15	
WG270026-06	STD	01	05/01/2008 16:46	
WG270026-07	STD	01	05/01/2008 17:17	
WG270026-08	STD	01	05/01/2008 17:48	
WG270026-09	STD	01	05/01/2008 18:20	
WG270026-10	SSCV	01	05/01/2008 18:52	
WG270026-11	SSCV	01	05/01/2008 19:23	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104612
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050566
Instrument: HPMS4
Analyst: MES
Workgroup: WG272317

Tune ID: WG272317-01
Run Date: 05/27/2008
Run Time: 10:42
File ID: 4M42942
Cal ID: HPMS4-01-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	34.0	53232	PASS
68.0	69.0	0	2.00	0.319	184	PASS
69.0	198	0	100	36.8	57640	PASS
70.0	69.0	0	2.00	0.569	328	PASS
127	198	40.0	60.0	51.7	80989	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	156717	PASS
199	198	5.00	9.00	6.57	10295	PASS
275	198	10.0	30.0	26.0	40736	PASS
365	198	1.00	100	3.88	6078	PASS
441	443	0.0100	100	85.1	19882	PASS
442	198	40.0	100	78.9	123674	PASS
443	442	17.0	23.0	18.9	23362	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272317-02	CCV	01	05/27/2008 11:01	
L08050566-01	1027-SS01-052308	01	05/27/2008 18:25	
L08050566-02	1028-SS01-052308	01	05/27/2008 18:57	
L08050566-03	1030-SS01-052308	01	05/27/2008 19:29	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104612
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

DFTPP

Login Number: L08050566
Instrument: HPMS4
Analyst: MES
Workgroup: WG272421

Tune ID: WG272421-01
Run Date: 05/28/2008
Run Time: 10:58
File ID: 4M42967
Cal ID: HPMS4-01-MAY-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51.0	198	30.0	60.0	34.9	48471	PASS
68.0	69.0	0	2.00	0	0	PASS
69.0	198	0	100	37.4	51866	PASS
70.0	69.0	0	2.00	0.557	289	PASS
127	198	40.0	60.0	52.5	72914	PASS
197	198	0	1.00	0	0	PASS
198	198	100	100	100	138818	PASS
199	198	5.00	9.00	6.64	9222	PASS
275	198	10.0	30.0	25.3	35184	PASS
365	198	1.00	100	3.95	5477	PASS
441	443	0.0100	100	64.0	13397	PASS
442	198	40.0	100	78.9	109512	PASS
443	442	17.0	23.0	19.1	20925	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG272421-02	CCV	01	05/28/2008 11:15	
WG272275-01	BLANK	01	05/28/2008 11:47	
WG272275-02	LCS	01	05/28/2008 12:18	
WG272275-03	LCS2	01	05/28/2008 12:50	
L08050566-04	1031-SS01-052308	01	05/28/2008 14:23	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 1104612
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050566 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20
ICAL Workgroup: WG270026 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
2,4,6-Trichlorophenol	CCC	0.3588	6.13		
2,4-Dichlorophenol	CCC	0.2962	4.39		
2-Nitrophenol	CCC	0.2044	5.80		
4-Chloro-3-Methylphenol	CCC	0.2984	2.41		
Acenaphthene	CCC	1.185	2.88		
Benzo[a]pyrene	CCC	1.246	5.32		
Di-n-Octyl Phthalate	CCC	1.631	6.55		
Fluoranthene	CCC	1.267	4.25		
Hexachlorobutadiene	CCC	0.1622	4.25		
Pentachlorophenol	CCC	0.1190	20.7	0.997	
Phenol	CCC	1.653	1.98		
n-Nitrosodiphenylamine	CCC	0.7417	3.76		
2,4-Dinitrophenol	SPCC	0.1473	33.6	0.998	
4-Nitrophenol	SPCC	0.2498	5.07		
Hexachlorocyclopentadiene	SPCC	0.1921	33.9	0.999	
n-Nitrosodipropylamine	SPCC	0.8873	2.89		
2,4,5-Trichlorophenol		0.3851	5.16		
2,4-Dimethylphenol		0.3403	2.18		
2,4-Dinitrotoluene		0.4093	6.22		
2,6-Dinitrotoluene		0.3244	3.55		
2-Chloronaphthalene		1.356	1.97		
2-Chlorophenol		1.491	2.86		
2-Methylnaphthalene		0.7034	2.42		
2-Methylphenol		1.084	2.03		
2-Nitroaniline		0.3246	3.80		
3,3'-Dichlorobenzidine		0.4463	4.24		
3-,4-Methylphenol		1.450	2.53		
3-Nitroaniline		0.3563	1.89		
4,6-Dinitro-2-Methylphenol		0.1550	13.5		
4-Bromophenyl Phenyl Ether		0.2243	4.85		
4-Chloroaniline		0.4693	2.39		
4-Chlorophenyl Phenyl Ether		0.6379	3.20		
4-Nitroaniline		0.3869	2.35		
Acenaphthylene		1.894	1.93		
Anthracene		1.255	3.77		
Benzo[a]anthracene		1.254	3.53		
Benzo[b]fluoranthene		1.433	5.35		
Benzo[ghi]perylene		1.216	5.82		
Benzo[k]fluoranthene		1.213	7.39		
Butyl Benzyl Phthalate		0.6538	6.52		
Carbazole		1.161	3.58		
Chrysene		1.199	3.81		
Di-n-Butyl Phthalate		1.432	3.45		
Dibenz[ah]anthracene		1.229	5.70		
Dibenzofuran		1.647	2.16		

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L08050566 **Instrument ID:** HPMS4
Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20
ICAL Workgroup: WG270026 **Column ID:** F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R^2)
Diethylphthalate		1.320	1.55		
Dimethylphthalate		1.300	1.87		
Fluorene		1.388	2.37		
Hexachlorobenzene		0.2428	5.37		
Hexachloroethane		0.5953	1.75		
Indeno[1,2,3-cd]pyrene		1.439	5.44		
Isophorone		0.5440	2.44		
Naphthalene		1.075	1.63		
Nitrobenzene		0.3357	2.21		
Phenanthrene		1.248	4.04		
Pyrene		1.368	4.55		
bis(2-Chloroethoxy)methane		0.5007	2.28		
bis(2-Chloroethyl)ether		0.8929	3.12		
bis(2-Chloroisopropyl)ether		1.955	4.71		
bis(2-Ethylhexyl)phthalate		0.9064	5.57		

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-02			WG270026-03			WG270026-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	50.0	213896.000	0.3594	3.00	9658.00000	0.3162	10.0	37176.0000	0.3372
2,4-Dichlorophenol	50.0	303612.000	0.2951	3.00	14450.0000	0.2704	10.0	55274.0000	0.2881
2-Nitrophenol	50.0	214221.000	0.2082	3.00	9663.00000	0.1808	10.0	36906.0000	0.1923
4-Chloro-3-Methylphenol	50.0	314036.000	0.3052	3.00	15363.0000	0.2875	10.0	55370.0000	0.2886
Acenaphthene	50.0	700740.000	1.178	3.00	34202.0000	1.120	10.0	127870.000	1.160
Benzo[a]pyrene	50.0	1063055.00	1.386	3.00	51746.0000	1.160	10.0	200911.000	1.201
Di-n-Octyl Phthalate	50.0	1445487.00	1.885	3.00	69888.0000	1.567	10.0	265511.000	1.587
Fluoranthene	50.0	1166672.00	1.152	3.00	59807.0000	1.260	10.0	221245.000	1.263
Hexachlorobutadiene	50.0	160849.000	0.1563	3.00	8055.00000	0.1507	10.0	31114.0000	0.1622
Pentachlorophenol	50.0	111604.000	0.1102	NA	NA	NA	NA	NA	NA
Phenol	50.0	433066.000	1.667	3.00	21975.0000	1.626	10.0	79484.0000	1.639
n-Nitrosodiphenylamine	50.0	694371.000	0.6856	3.00	34390.0000	0.7243	10.0	130230.000	0.7433
2,4-Dinitrophenol	50.0	85650.0000	0.1439	NA	NA	NA	NA	NA	NA
4-Nitrophenol	50.0	152557.000	0.2563	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50.0	130310.000	0.2190	3.00	2242.00000	0.07340	10.0	14488.0000	0.1314
n-Nitrosodipropylamine	50.0	234796.000	0.9038	3.00	12093.0000	0.8949	10.0	42389.0000	0.8739
2,4,5-Trichlorophenol	50.0	231094.000	0.3883	3.00	10635.0000	0.3482	10.0	40488.0000	0.3672
2,4-Dimethylphenol	50.0	352554.000	0.3427	3.00	17512.0000	0.3277	10.0	64944.0000	0.3385
2,4-Dinitrotoluene	50.0	248146.000	0.4170	3.00	10715.0000	0.3508	10.0	43832.0000	0.3976
2,6-Dinitrotoluene	50.0	192581.000	0.3236	3.00	9105.00000	0.2981	10.0	35485.0000	0.3219
2-Chloronaphthalene	50.0	793211.000	1.333	3.00	40953.0000	1.341	10.0	149574.000	1.357
2-Chlorophenol	50.0	384841.000	1.481	3.00	19019.0000	1.408	10.0	71548.0000	1.475
2-Methylnaphthalene	50.0	715732.000	0.6957	3.00	36208.0000	0.6776	10.0	132472.000	0.6904
2-Methylphenol	50.0	282682.000	1.088	3.00	14107.0000	1.044	10.0	51876.0000	1.070
2-Nitroaniline	50.0	201691.000	0.3389	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	50.0	399640.000	0.4819	3.00	21879.0000	0.4616	10.0	77754.0000	0.4395
3-,4-Methylphenol	50.0	378839.000	1.458	3.00	18625.0000	1.378	10.0	69585.0000	1.435
3-Nitroaniline	50.0	209857.000	0.3526	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	50.0	141369.000	0.1396	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	50.0	205389.000	0.2028	3.00	10248.0000	0.2158	10.0	39426.0000	0.2250
4-Chloroaniline	50.0	485133.000	0.4715	3.00	23840.0000	0.4461	10.0	89078.0000	0.4642
4-Chlorophenyl Phenyl Ether	50.0	370004.000	0.6217	3.00	18515.0000	0.6062	10.0	70851.0000	0.6427
4-Nitroaniline	50.0	232425.000	0.3906	NA	NA	NA	NA	NA	NA
Acenaphthylene	50.0	1115522.00	1.875	3.00	56108.0000	1.837	10.0	207526.000	1.882
Anthracene	50.0	1174602.00	1.160	3.00	58613.0000	1.235	10.0	220977.000	1.261
Benzo[a]anthracene	50.0	1122413.00	1.354	3.00	58630.0000	1.237	10.0	216124.000	1.222
Benzo[b]fluoranthene	50.0	1226825.00	1.600	3.00	62477.0000	1.401	10.0	231857.000	1.386
Benzo[ghi]perylene	50.0	1037410.00	1.353	3.00	49281.0000	1.105	10.0	196037.000	1.172
Benzo[k]fluoranthene	50.0	1057128.00	1.379	3.00	51197.0000	1.148	10.0	202960.000	1.213
Butyl Benzyl Phthalate	50.0	615514.000	0.7423	3.00	31102.0000	0.6562	10.0	114990.000	0.6499
Carbazole	50.0	1098814.00	1.085	3.00	54974.0000	1.158	10.0	197844.000	1.129
Chrysene	50.0	1075576.00	1.297	3.00	55168.0000	1.164	10.0	207637.000	1.174

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-02			WG270026-03			WG270026-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	50.0	1372456.00	1.355	3.00	65506.0000	1.380	10.0	248048.000	1.416
Dibenz[ah]anthracene	50.0	1040721.00	1.357	3.00	50233.0000	1.126	10.0	193942.000	1.160
Dibenzofuran	50.0	964865.000	1.621	3.00	50162.0000	1.642	10.0	182957.000	1.660
Diethylphthalate	50.0	779228.000	1.309	3.00	39751.0000	1.302	10.0	145296.000	1.318
Dimethylphthalate	50.0	766532.000	1.288	3.00	38800.0000	1.270	10.0	144282.000	1.309
Fluorene	50.0	810170.000	1.361	3.00	41216.0000	1.350	10.0	151427.000	1.374
Hexachlorobenzene	50.0	220339.000	0.2176	3.00	11084.0000	0.2334	10.0	42445.0000	0.2423
Hexachloroethane	50.0	155507.000	0.5986	3.00	7747.00000	0.5733	10.0	28827.0000	0.5943
Indeno[1,2,3-cd]pyrene	50.0	1218831.00	1.589	3.00	59442.0000	1.333	10.0	228209.000	1.364
Isophorone	50.0	575324.000	0.5592	3.00	28381.0000	0.5311	10.0	101861.000	0.5309
Naphthalene	50.0	1094999.00	1.064	3.00	56991.0000	1.067	10.0	205019.000	1.069
Nitrobenzene	50.0	353230.000	0.3433	3.00	17890.0000	0.3348	10.0	63888.0000	0.3330
Phenanthrene	50.0	1156019.00	1.142	3.00	58725.0000	1.237	10.0	219575.000	1.253
Pyrene	50.0	1247953.00	1.505	3.00	62334.0000	1.315	10.0	237233.000	1.341
bis(2-Chloroethoxy)methane	50.0	523968.000	0.5093	3.00	27390.0000	0.5125	10.0	95419.0000	0.4973
bis(2-Chloroethyl)ether	50.0	238876.000	0.9195	3.00	12143.0000	0.8986	10.0	43374.0000	0.8942
bis(2-Chloroisopropyl)ether	50.0	532416.000	2.049	3.00	27487.0000	2.034	10.0	94773.0000	1.954
bis(2-Ethylhexyl)phthalate	50.0	846687.000	1.021	3.00	42789.0000	0.9028	10.0	154954.000	0.8758

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-05			WG270026-06			WG270026-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	15.0	57373.0000	0.3582	25.0	161608.000	0.3736	80.0	410109.000	0.3749
2,4-Dichlorophenol	15.0	82505.0000	0.2965	25.0	227916.000	0.3114	80.0	558306.000	0.3001
2-Nitrophenol	15.0	57305.0000	0.2059	25.0	156849.000	0.2143	80.0	387173.000	0.2081
4-Chloro-3-Methylphenol	15.0	84367.0000	0.3031	25.0	223392.000	0.3052	80.0	548629.000	0.2949
Acenaphthene	15.0	189721.000	1.185	25.0	528961.000	1.223	80.0	1314341.00	1.201
Benzo[a]pyrene	15.0	292158.000	1.224	25.0	859582.000	1.256	80.0	2124611.00	1.232
Di-n-Octyl Phthalate	15.0	388336.000	1.628	25.0	1083533.00	1.584	80.0	2670591.00	1.548
Fluoranthene	15.0	325362.000	1.294	25.0	925148.000	1.341	80.0	2247918.00	1.270
Hexachlorobutadiene	15.0	45219.0000	0.1625	25.0	126752.000	0.1732	80.0	306557.000	0.1648
Pentachlorophenol	15.0	19495.0000	0.07750	25.0	77043.0000	0.1116	80.0	237196.000	0.1340
Phenol	15.0	119795.000	1.699	25.0	309383.000	1.691	80.0	746208.000	1.600
n-Nitrosodiphenylamine	15.0	192983.000	0.7673	25.0	535227.000	0.7755	80.0	1306154.00	0.7380
2,4-Dinitrophenol	15.0	9899.00000	0.06180	25.0	53746.0000	0.1242	80.0	190683.000	0.1743
4-Nitrophenol	15.0	37265.0000	0.2327	25.0	104297.000	0.2411	80.0	265917.000	0.2431
Hexachlorocyclopentadiene	15.0	24701.0000	0.1542	25.0	94480.0000	0.2184	80.0	268121.000	0.2451
n-Nitrosodipropylamine	15.0	65600.0000	0.9302	25.0	163680.000	0.8944	80.0	393892.000	0.8443
2,4,5-Trichlorophenol	15.0	60593.0000	0.3783	25.0	172988.000	0.3999	80.0	433004.000	0.3958
2,4-Dimethylphenol	15.0	96018.0000	0.3450	25.0	257308.000	0.3516	80.0	620635.000	0.3336
2,4-Dinitrotoluene	15.0	66390.0000	0.4145	25.0	186327.000	0.4307	80.0	460002.000	0.4205
2,6-Dinitrotoluene	15.0	52199.0000	0.3259	25.0	144999.000	0.3352	80.0	358894.000	0.3280
2-Chloronaphthalene	15.0	219832.000	1.372	25.0	611038.000	1.413	80.0	1477136.00	1.350
2-Chlorophenol	15.0	106500.000	1.510	25.0	281781.000	1.540	80.0	686300.000	1.471
2-Methylnaphthalene	15.0	198076.000	0.7117	25.0	533827.000	0.7294	80.0	1309509.00	0.7039
2-Methylphenol	15.0	76621.0000	1.086	25.0	203494.000	1.112	80.0	498712.000	1.069
2-Nitroaniline	15.0	54078.0000	0.3376	25.0	137071.000	0.3169	80.0	337875.000	0.3088
3,3'-Dichlorobenzidine	15.0	108305.000	0.4309	25.0	326029.000	0.4580	80.0	782664.000	0.4297
3-,4-Methylphenol	15.0	103719.000	1.471	25.0	272863.000	1.491	80.0	664697.000	1.425
3-Nitroaniline	15.0	55519.0000	0.3466	25.0	153515.000	0.3549	80.0	389825.000	0.3563
4,6-Dinitro-2-Methylphenol	15.0	30842.0000	0.1226	25.0	105490.000	0.1529	80.0	293051.000	0.1656
4-Bromophenyl Phenyl Ether	15.0	57370.0000	0.2281	25.0	164649.000	0.2386	80.0	400854.000	0.2265
4-Chloroaniline	15.0	132889.000	0.4775	25.0	353564.000	0.4831	80.0	869969.000	0.4676
4-Chlorophenyl Phenyl Ether	15.0	103892.000	0.6486	25.0	290877.000	0.6724	80.0	708165.000	0.6473
4-Nitroaniline	15.0	59667.0000	0.3725	25.0	173218.000	0.4004	80.0	421116.000	0.3849
Acenaphthylene	15.0	308590.000	1.927	25.0	847050.000	1.958	80.0	2073166.00	1.895
Anthracene	15.0	324639.000	1.291	25.0	911660.000	1.321	80.0	2212043.00	1.250
Benzo[a]anthracene	15.0	314944.000	1.253	25.0	906430.000	1.273	80.0	2226123.00	1.222
Benzo[b]fluoranthene	15.0	328239.000	1.376	25.0	963914.000	1.409	80.0	2530262.00	1.467
Benzo[ghi]perylene	15.0	284789.000	1.194	25.0	849718.000	1.242	80.0	2088490.00	1.211
Benzo[k]fluoranthene	15.0	268226.000	1.124	25.0	773851.000	1.131	80.0	2007308.00	1.164
Butyl Benzyl Phthalate	15.0	170877.000	0.6799	25.0	461465.000	0.6482	80.0	1108649.00	0.6087
Carbazole	15.0	290310.000	1.154	25.0	844699.000	1.224	80.0	2062029.00	1.165
Chrysene	15.0	305943.000	1.217	25.0	870053.000	1.222	80.0	2122067.00	1.165

INT_CAL - Modified 03/06/2008
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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-05			WG270026-06			WG270026-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	15.0	375484.000	1.493	25.0	1032640.00	1.496	80.0	2524280.00	1.426
Dibenz[ah]anthracene	15.0	287666.000	1.206	25.0	856309.000	1.252	80.0	2118876.00	1.228
Dibenzofuran	15.0	270269.000	1.687	25.0	738548.000	1.707	80.0	1775249.00	1.623
Diethylphthalate	15.0	215347.000	1.344	25.0	587611.000	1.358	80.0	1435508.00	1.312
Dimethylphthalate	15.0	211038.000	1.318	25.0	581700.000	1.345	80.0	1413921.00	1.292
Fluorene	15.0	225807.000	1.410	25.0	628019.000	1.452	80.0	1521889.00	1.391
Hexachlorobenzene	15.0	61194.0000	0.2433	25.0	179303.000	0.2598	80.0	435758.000	0.2462
Hexachloroethane	15.0	42676.0000	0.6051	25.0	110175.000	0.6021	80.0	274039.000	0.5874
Indeno[1,2,3-cd]pyrene	15.0	336237.000	1.409	25.0	995201.000	1.455	80.0	2474832.00	1.435
Isophorone	15.0	156964.000	0.5640	25.0	399195.000	0.5455	80.0	983542.000	0.5287
Naphthalene	15.0	304035.000	1.093	25.0	810399.000	1.107	80.0	1966338.00	1.057
Nitrobenzene	15.0	96776.0000	0.3477	25.0	246316.000	0.3366	80.0	601558.000	0.3234
Phenanthrene	15.0	325361.000	1.294	25.0	902996.000	1.308	80.0	2191416.00	1.238
Pyrene	15.0	350219.000	1.394	25.0	985403.000	1.384	80.0	2393241.00	1.314
bis(2-Chloroethoxy)methane	15.0	142693.000	0.5127	25.0	369937.000	0.5055	80.0	893452.000	0.4803
bis(2-Chloroethyl)ether	15.0	65918.0000	0.9347	25.0	162267.000	0.8867	80.0	394748.000	0.8461
bis(2-Chloroisopropyl)ether	15.0	145603.000	2.065	25.0	350578.000	1.916	80.0	844098.000	1.809
bis(2-Ethylhexyl)phthalate	15.0	233093.000	0.9275	25.0	634439.000	0.8912	80.0	1567419.00	0.8606

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-08			WG270026-09		
	CONC	RESP	RF	CONC	RESP	RF
2,4,6-Trichlorophenol	100	447858.000	0.3697	120	643690.000	0.3815
2,4-Dichlorophenol	100	618048.000	0.2973	120	882977.000	0.3104
2-Nitrophenol	100	436005.000	0.2097	120	613171.000	0.2156
4-Chloro-3-Methylphenol	100	625012.000	0.3006	120	858638.000	0.3019
Acenaphthene	100	1445655.00	1.193	120	2063246.00	1.223
Benzo[a]pyrene	100	2233225.00	1.234	120	3274407.00	1.275
Di-n-Octyl Phthalate	100	2957962.00	1.635	120	4137987.00	1.612
Fluoranthene	100	2399644.00	1.259	120	3471315.00	1.295
Hexachlorobutadiene	100	332769.000	0.1601	120	478165.000	0.1681
Pentachlorophenol	100	260266.000	0.1365	120	387183.000	0.1444
Phenol	100	856657.000	1.653	120	1169326.00	1.653
n-Nitrosodiphenylamine	100	1420595.00	0.7453	120	2022769.00	0.7544
2,4-Dinitrophenol	100	222143.000	0.1834	120	330526.000	0.1959
4-Nitrophenol	100	320994.000	0.2650	120	439441.000	0.2605
Hexachlorocyclopentadiene	100	295135.000	0.2436	120	425111.000	0.2520
n-Nitrosodipropylamine	100	460426.000	0.8883	120	614434.000	0.8688
2,4,5-Trichlorophenol	100	475425.000	0.3924	120	692229.000	0.4103
2,4-Dimethylphenol	100	703802.000	0.3385	120	980909.000	0.3449
2,4-Dinitrotoluene	100	507795.000	0.4192	120	715156.000	0.4239
2,6-Dinitrotoluene	100	398822.000	0.3292	120	561974.000	0.3331
2-Chloronaphthalene	100	1610245.00	1.329	120	2283628.00	1.354
2-Chlorophenol	100	778848.000	1.503	120	1087390.00	1.538
2-Methylnaphthalene	100	1449004.00	0.6969	120	2053060.00	0.7218
2-Methylphenol	100	567586.000	1.095	120	781322.000	1.105
2-Nitroaniline	100	398379.000	0.3288	120	534374.000	0.3167
3,3'-Dichlorobenzidine	100	830270.000	0.4303	120	1205729.00	0.4388
3-,4-Methylphenol	100	757389.000	1.461	120	1049176.00	1.484
3-Nitroaniline	100	438292.000	0.3618	120	616809.000	0.3656
4,6-Dinitro-2-Methylphenol	100	328692.000	0.1724	120	474464.000	0.1769
4-Bromophenyl Phenyl Ether	100	428386.000	0.2247	120	623995.000	0.2327
4-Chloroaniline	100	973744.000	0.4684	120	1354510.00	0.4762
4-Chlorophenyl Phenyl Ether	100	754413.000	0.6227	120	1082359.00	0.6416
4-Nitroaniline	100	466595.000	0.3851	120	654736.000	0.3881
Acenaphthylene	100	2270577.00	1.874	120	3210161.00	1.903
Anthracene	100	2380422.00	1.249	120	3422728.00	1.277
Benzo[a]anthracene	100	2356284.00	1.221	120	3438911.00	1.252
Benzo[b]fluoranthene	100	2472693.00	1.367	120	3743306.00	1.458
Benzo[ghi]perylene	100	2188227.00	1.209	120	3194506.00	1.244
Benzo[k]fluoranthene	100	2314600.00	1.279	120	3259773.00	1.270
Butyl Benzyl Phthalate	100	1218920.00	0.6317	120	1685704.00	0.6135
Carbazole	100	2245331.00	1.178	120	3198016.00	1.193
Chrysene	100	2257031.00	1.170	120	3249287.00	1.183

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Microbac Laboratories Inc.

INITIAL CALIBRATION DATA

Login Number: L08050566 **Instrument ID:** HPMS4

Analytical Method: 8270C **Initial Calibration Date:** 01-MAY-08 18:20

Column ID: F

Analyte	WG270026-08			WG270026-09		
	CONC	RESP	RF	CONC	RESP	RF
Di-n-Butyl Phthalate	100	2762453.00	1.449	120	3855498.00	1.438
Dibenz[ah]anthracene	100	2234944.00	1.235	120	3253472.00	1.267
Dibenzofuran	100	1945135.00	1.606	120	2743594.00	1.626
Diethylphthalate	100	1579825.00	1.304	120	2212035.00	1.311
Dimethylphthalate	100	1543449.00	1.274	120	2198254.00	1.303
Fluorene	100	1655932.00	1.367	120	2363407.00	1.401
Hexachlorobenzene	100	466141.000	0.2446	120	684926.000	0.2554
Hexachloroethane	100	311853.000	0.6016	120	424057.000	0.5996
Indeno[1,2,3-cd]pyrene	100	2602910.00	1.438	120	3818123.00	1.487
Isophorone	100	1141843.00	0.5492	120	1544513.00	0.5430
Naphthalene	100	2206391.00	1.061	120	3080519.00	1.083
Nitrobenzene	100	696846.000	0.3352	120	942356.000	0.3313
Phenanthrene	100	2369275.00	1.243	120	3402926.00	1.269
Pyrene	100	2583901.00	1.339	120	3718540.00	1.353
bis(2-Chloroethoxy)methane	100	1031581.00	0.4962	120	1398653.00	0.4918
bis(2-Chloroethyl)ether	100	464881.000	0.8969	120	612765.000	0.8664
bis(2-Chloroisopropyl)ether	100	1014370.00	1.957	120	1313850.00	1.858
bis(2-Ethylhexyl)phthalate	100	1725473.00	0.8942	120	2411629.00	0.8776

INT_CAL - Modified 03/06/2008

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 05/01/2008 Sample ID: WG270026-10
Instrument ID: HPMS4 Run Time: 18:52 Method: 8270C
File ID: 4M42596 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG270026 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	52600	ug/L	0.377	5.10	25	
2,4-Dichlorophenol	CCC	50000	49800	ug/L	0.295	0.400	25	
2-Nitrophenol	CCC	50000	51400	ug/L	0.210	2.80	25	
4-Chloro-3-Methylphenol	CCC	50000	50400	ug/L	0.301	0.800	25	
Acenaphthene	CCC	50000	54700	ug/L	1.30	9.40	25	
Benzo[a]pyrene	CCC	50000	55900	ug/L	1.39	11.8	25	
Di-n-Octyl Phthalate	CCC	50000	52000	ug/L	1.70	4.10	25	
Fluoranthene	CCC	50000	57100	ug/L	1.45	14.2	25	
Hexachlorobutadiene	CCC	50000	56700	ug/L	0.184	13.5	25	
n-Nitrosodiphenylamine	CCC	50000	52400	ug/L	0.777	4.70	25	
Pentachlorophenol	CCC	50000	61600	ug/L	0.160	23.1	25	
Phenol	CCC	50000	48100	ug/L	1.59	3.80	25	
2,4-Dinitrophenol	SPCC	50000	55600	ug/L	0.183	11.1	25	
4-Nitrophenol	SPCC	50000	49200	ug/L	0.246	1.60	25	
Hexachlorocyclopentadiene	SPCC	50000	51700	ug/L	0.243	3.40	25	
n-Nitrosodipropylamine	SPCC	50000	47000	ug/L	0.834	6.00	25	
2,4,5-Trichlorophenol		50000	53400	ug/L	0.411	6.70	25	
2,4-Dimethylphenol		50000	48000	ug/L	0.327	4.00	25	
2,4-Dinitrotoluene		50000	56400	ug/L	0.461	12.7	25	
2,6-Dinitrotoluene		50000	53700	ug/L	0.348	7.30	25	
2-Chloronaphthalene		50000	45400	ug/L	1.23	9.10	25	
2-Chlorophenol		50000	48100	ug/L	1.43	3.90	25	
2-Methylnaphthalene		50000	53200	ug/L	0.749	6.40	25	
2-Methylphenol		50000	50300	ug/L	1.09	0.600	25	
2-Nitroaniline		50000	55000	ug/L	0.357	10.0	25	
3,3'-Dichlorobenzidine		50000	44200	ug/L	0.395	11.6	25	
3-,4-Methylphenol		50000	48100	ug/L	1.39	3.90	25	
3-Nitroaniline		50000	56400	ug/L	0.402	12.8	25	
4,6-Dinitro-2-Methylphenol		50000	58800	ug/L	0.182	17.5	25	
4-Bromophenyl Phenyl Ether		50000	44700	ug/L	0.201	10.5	25	
4-Chloroaniline		50000	52300	ug/L	0.491	4.70	25	
4-Chlorophenyl Phenyl Ether		50000	49600	ug/L	0.633	0.700	25	
4-Nitroaniline		50000	54100	ug/L	0.419	8.30	25	
Acenaphthylene		50000	54800	ug/L	2.08	9.60	25	
Anthracene		50000	56600	ug/L	1.42	13.1	25	
Benzo[a]anthracene		50000	53500	ug/L	1.34	6.90	25	
Benzo[b]fluoranthene		50000	54000	ug/L	1.55	8.10	25	
Benzo[ghi]perylene		50000	55500	ug/L	1.35	10.9	25	
Benzo[k]fluoranthene		50000	54300	ug/L	1.32	8.50	25	
bis(2-Chloroethoxy)methane		50000	38200	ug/L	0.383	23.6	25	
bis(2-Chloroethyl)ether		50000	46300	ug/L	0.827	7.40	25	
bis(2-Chloroisopropyl)ether		50000	47100	ug/L	1.84	5.80	25	

ALT - Modified 09/06/2007
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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L08050566 Run Date: 05/01/2008 Sample ID: WG270026-10
Instrument ID: HPMS4 Run Time: 18:52 Method: 8270C
File ID: 4M42596 Analyst: MES QC Key: DOWWV2006
ICal Workgroup: WG270026 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
bis(2-Ethylhexyl)phthalate		50000	50500	ug/L	0.916	1.10	25	
Butyl Benzyl Phthalate		50000	52700	ug/L	0.689	5.40	25	
Carbazole		50000	55300	ug/L	1.28	10.6	25	
Chrysene		50000	53500	ug/L	1.28	6.90	25	
Dibenz[ah]anthracene		50000	55400	ug/L	1.36	10.8	25	
Dibenzofuran		50000	53400	ug/L	1.76	6.80	25	
Diethylphthalate		50000	48900	ug/L	1.29	2.20	25	
Dimethylphthalate		50000	49800	ug/L	1.30	0.300	25	
Di-n-Butyl Phthalate		50000	49300	ug/L	1.41	1.50	25	
Fluorene		50000	54500	ug/L	1.51	9.00	25	
Hexachlorobenzene		50000	54800	ug/L	0.266	9.70	25	
Hexachloroethane		50000	51100	ug/L	0.608	2.20	25	
Indeno[1,2,3-cd]pyrene		50000	55500	ug/L	1.60	11.1	25	
Isophorone		50000	56600	ug/L	0.616	13.2	25	
Naphthalene		50000	52800	ug/L	1.14	5.70	25	
Nitrobenzene		50000	50400	ug/L	0.338	0.800	25	
Phenanthrene		50000	54600	ug/L	1.36	9.30	25	
Pyrene		50000	54700	ug/L	1.50	9.40	25	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272317-02
Instrument ID: HPMS4 Run Time: 11:01 Method: 8270C
File ID: 4M42943 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG272361 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50200	ug/L	0.360	0.429	20	
2,4-Dichlorophenol	CCC	50000	49000	ug/L	0.290	2.00	20	
2-Nitrophenol	CCC	50000	50200	ug/L	0.205	0.452	20	
4-Chloro-3-Methylphenol	CCC	50000	52700	ug/L	0.314	5.30	20	
Acenaphthene	CCC	50000	51400	ug/L	1.22	2.85	20	
Benzo[a]pyrene	CCC	50000	55000	ug/L	1.37	10.1	20	
Di-n-Octyl Phthalate	CCC	50000	59400	ug/L	1.94	18.9	20	
Fluoranthene	CCC	50000	44900	ug/L	1.14	10.2	20	
Hexachlorobutadiene	CCC	50000	51600	ug/L	0.167	3.13	20	
n-Nitrosodiphenylamine	CCC	50000	46900	ug/L	0.696	6.16	20	
Pentachlorophenol	CCC	50000	45400	ug/L	0.111	9.19	20	
Phenol	CCC	50000	50200	ug/L	1.66	0.314	20	
1,4-Dichlorobenzene	CCC	50000	50700	ug/L	1.64	1.40	25	
2,4-Dinitrophenol	SPCC	50000	49000	ug/L	0.156	1.97	25	
4-Nitrophenol	SPCC	50000	49300	ug/L	0.247	1.32	25	
Hexachlorocyclopentadiene	SPCC	50000	47100	ug/L	0.219	5.85	25	
n-Nitrosodipropylamine	SPCC	50000	53500	ug/L	0.950	7.06	25	
2,4,5-Trichlorophenol		50000	49500	ug/L	0.381	0.943	25	
2,4-Dimethylphenol		50000	49000	ug/L	0.334	1.96	25	
2,4-Dinitrotoluene		50000	52100	ug/L	0.427	4.28	25	
2,6-Dinitrotoluene		50000	50000	ug/L	0.325	0.0514	25	
2-Chloronaphthalene		50000	49800	ug/L	1.35	0.320	25	
2-Chlorophenol		50000	49700	ug/L	1.48	0.661	25	
2-Methylnaphthalene		50000	49800	ug/L	0.701	0.313	25	
2-Methylphenol		50000	50300	ug/L	1.09	0.549	25	
2-Nitroaniline		50000	53700	ug/L	0.348	7.31	25	
3,3'-Dichlorobenzidine		50000	52200	ug/L	0.466	4.37	25	
3-,4-Methylphenol		50000	49400	ug/L	1.43	1.24	25	
3-Nitroaniline		50000	49400	ug/L	0.352	1.29	25	
4,6-Dinitro-2-Methylphenol		50000	44400	ug/L	0.138	11.2	25	
4-Bromophenyl Phenyl Ether		50000	45800	ug/L	0.206	8.36	25	
4-Chloroaniline		50000	49200	ug/L	0.462	1.51	25	
4-Chlorophenyl Phenyl Ether		50000	48900	ug/L	0.623	2.27	25	
4-Nitroaniline		50000	50100	ug/L	0.388	0.228	25	
Acenaphthylene		50000	50100	ug/L	1.90	0.236	25	
Anthracene		50000	46500	ug/L	1.17	6.91	25	
Benzo[a]anthracene		50000	53300	ug/L	1.34	6.58	25	
Benzo[b]fluoranthene		50000	55800	ug/L	1.60	11.6	25	
Benzo[ghi]perylene		50000	56200	ug/L	1.37	12.4	25	
Benzo[k]fluoranthene		50000	59400	ug/L	1.44	18.9	25	
bis(2-Chloroethoxy)methane		50000	50100	ug/L	0.502	0.291	25	
bis(2-Chloroethyl)ether		50000	51700	ug/L	0.924	3.47	25	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/27/2008 Sample ID: WG272317-02
Instrument ID: HPMS4 Run Time: 11:01 Method: 8270C
File ID: 4M42943 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG272361 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	46400	ug/L	1.81	7.29	25	
bis(2-Ethylhexyl)phthalate		50000	57900	ug/L	1.05	15.8	25	
Butyl Benzyl Phthalate		50000	58300	ug/L	0.763	16.7	25	
Carbazole		50000	46900	ug/L	1.09	6.19	25	
Chrysene		50000	53600	ug/L	1.29	7.25	25	
Dibenz[ah]anthracene		50000	57100	ug/L	1.40	14.2	25	
Dibenzofuran		50000	49100	ug/L	1.62	1.77	25	
Diethylphthalate		50000	53000	ug/L	1.40	6.05	25	
Dimethylphthalate		50000	50900	ug/L	1.32	1.86	25	
Di-n-Butyl Phthalate		50000	49500	ug/L	1.42	0.956	25	
Fluorene		50000	49900	ug/L	1.39	0.209	25	
Hexachlorobenzene		50000	47300	ug/L	0.230	5.42	25	
Hexachloroethane		50000	54300	ug/L	0.646	8.54	25	
Indeno[1,2,3-cd]pyrene		50000	57500	ug/L	1.65	15.0	25	
Isophorone		50000	54400	ug/L	0.592	8.89	25	
Naphthalene		50000	49200	ug/L	1.06	1.53	25	
Nitrobenzene		50000	53700	ug/L	0.361	7.46	25	
Phenanthrene		50000	46200	ug/L	1.15	7.59	25	
Pyrene		50000	53300	ug/L	1.46	6.66	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/28/2008 Sample ID: WG272421-02
Instrument ID: HPMS4 Run Time: 11:15 Method: 8270C
File ID: 4M42968 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG272361 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
2,4,6-Trichlorophenol	CCC	50000	50500	ug/L	0.363	1.02	20	
2,4-Dichlorophenol	CCC	50000	49300	ug/L	0.292	1.35	20	
2-Nitrophenol	CCC	50000	49500	ug/L	0.202	1.05	20	
4-Chloro-3-Methylphenol	CCC	50000	50800	ug/L	0.303	1.54	20	
Acenaphthene	CCC	50000	50600	ug/L	1.20	1.28	20	
Benzo[a]pyrene	CCC	50000	54700	ug/L	1.36	9.39	20	
Di-n-Octyl Phthalate	CCC	50000	54500	ug/L	1.78	9.09	20	
Fluoranthene	CCC	50000	45100	ug/L	1.14	9.89	20	
Hexachlorobutadiene	CCC	50000	53600	ug/L	0.174	7.21	20	
n-Nitrosodiphenylamine	CCC	50000	46700	ug/L	0.692	6.65	20	
Pentachlorophenol	CCC	50000	47800	ug/L	0.118	4.43	20	
Phenol	CCC	50000	47300	ug/L	1.56	5.45	20	
1,4-Dichlorobenzene	CCC	50000	50900	ug/L	1.65	1.81	25	
2,4-Dinitrophenol	SPCC	50000	47400	ug/L	0.149	5.11	25	
4-Nitrophenol	SPCC	50000	42700	ug/L	0.213	14.7	25	
Hexachlorocyclopentadiene	SPCC	50000	48700	ug/L	0.228	2.60	25	
n-Nitrosodipropylamine	SPCC	50000	48900	ug/L	0.867	2.29	25	
2,4,5-Trichlorophenol		50000	50200	ug/L	0.387	0.479	25	
2,4-Dimethylphenol		50000	48400	ug/L	0.329	3.24	25	
2,4-Dinitrotoluene		50000	51000	ug/L	0.417	1.91	25	
2,6-Dinitrotoluene		50000	49300	ug/L	0.320	1.47	25	
2-Chloronaphthalene		50000	49000	ug/L	1.33	2.09	25	
2-Chlorophenol		50000	49000	ug/L	1.46	2.09	25	
2-Methylnaphthalene		50000	50200	ug/L	0.706	0.372	25	
2-Methylphenol		50000	48500	ug/L	1.05	2.92	25	
2-Nitroaniline		50000	47300	ug/L	0.307	5.42	25	
3,3'-Dichlorobenzidine		50000	51000	ug/L	0.455	1.93	25	
3-,4-Methylphenol		50000	47400	ug/L	1.38	5.10	25	
3-Nitroaniline		50000	46600	ug/L	0.332	6.87	25	
4,6-Dinitro-2-Methylphenol		50000	44300	ug/L	0.137	11.4	25	
4-Bromophenyl Phenyl Ether		50000	47200	ug/L	0.212	5.58	25	
4-Chloroaniline		50000	47900	ug/L	0.450	4.21	25	
4-Chlorophenyl Phenyl Ether		50000	49800	ug/L	0.636	0.321	25	
4-Nitroaniline		50000	47600	ug/L	0.368	4.85	25	
Acenaphthylene		50000	49000	ug/L	1.85	2.06	25	
Anthracene		50000	46000	ug/L	1.16	7.96	25	
Benzo[a]anthracene		50000	52900	ug/L	1.33	5.73	25	
Benzo[b]fluoranthene		50000	58400	ug/L	1.67	16.8	25	
Benzo[ghi]perylene		50000	56500	ug/L	1.37	13.0	25	
Benzo[k]fluoranthene		50000	55500	ug/L	1.35	10.9	25	
bis(2-Chloroethoxy)methane		50000	47000	ug/L	0.470	6.07	25	
bis(2-Chloroethyl)ether		50000	46900	ug/L	0.838	6.16	25	

CCV - Modified 03/05/2008
PDF File ID: 1104432
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L08050566 Run Date: 05/28/2008 Sample ID: WG272421-02
Instrument ID: HPMS4 Run Time: 11:15 Method: 8270C
File ID: 4M42968 Analyst: MES QC Key: DOWWV2006
Workgroup (AAB#): WG272361 Cal ID: HPMS4 - 01-MAY-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
bis(2-Chloroisopropyl)ether		50000	40400	ug/L	1.58	19.2	25	
bis(2-Ethylhexyl)phthalate		50000	53700	ug/L	0.973	7.34	25	
Butyl Benzyl Phthalate		50000	53700	ug/L	0.703	7.45	25	
Carbazole		50000	45600	ug/L	1.06	8.82	25	
Chrysene		50000	53100	ug/L	1.27	6.22	25	
Dibenz[ah]anthracene		50000	57700	ug/L	1.42	15.4	25	
Dibenzofuran		50000	48800	ug/L	1.61	2.39	25	
Diethylphthalate		50000	51600	ug/L	1.36	3.23	25	
Dimethylphthalate		50000	49600	ug/L	1.29	0.763	25	
Di-n-Butyl Phthalate		50000	47000	ug/L	1.35	5.92	25	
Fluorene		50000	49700	ug/L	1.38	0.563	25	
Hexachlorobenzene		50000	49400	ug/L	0.240	1.21	25	
Hexachloroethane		50000	52500	ug/L	0.625	4.92	25	
Indeno[1,2,3-cd]pyrene		50000	58000	ug/L	1.67	16.0	25	
Isophorone		50000	50600	ug/L	0.550	1.11	25	
Naphthalene		50000	48800	ug/L	1.05	2.44	25	
Nitrobenzene		50000	49200	ug/L	0.330	1.57	25	
Phenanthrene		50000	46200	ug/L	1.15	7.50	25	
Pyrene		50000	52100	ug/L	1.43	4.26	25	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1104432
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566 ICAL CCV Number: WG270026-02

Instrument ID: HPMS4 CAL ID: HPMS4-01-MAY-08

Workgroup (AAB#): WG272361 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG270026-02	NA	NA	207840	476090	663378	823046	613487	810191
Upper Limit	NA	NA	415680	952180	1326756	1646092	1226974	1620382
Lower Limit	NA	NA	103920	238045	331689	411523	306744	405096
L08050566-01	1.00	01	292620	628981	1046191	1139965	1163026	1000443
L08050566-02	1.00	01	299467	646482	1069883	1164840	1187614	1015768
L08050566-03	1.00	01	249185	523534	854998	976072	937494	816607
L08050566-04	1.00	01	265544	576163	975860	1042675	1087056	915764
WG272275-01	1.00	01	251406	542860	910820	987116	1016026	863839
WG272275-02	1.00	01	237426	520376	867091	1011424	932711	820518
WG272275-03	1.00	01	267311	599434	1026952	1166882	1092629	958016

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 1104613
Report generated 05/29/2008 16:13

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L08050566 ICAL CCV Number: WG270026-02

Instrument ID: HPMS4 CAL ID: HPMS4-01-MAY-08

Workgroup (AAB#): WG272361 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5	IS-6
WG270026-02	NA	NA	7.72	11.09	15.44	9.19	17.63	12.65
Upper Limit	NA	NA	8.22	11.59	15.94	9.69	18.13	13.15
Lower Limit	NA	NA	7.22	10.59	14.94	8.69	17.13	12.15
L08050566-01	1.00	01	7.71	11.08	15.43	9.17	17.6	12.63
L08050566-02	1.00	01	7.72	11.08	15.43	9.17	17.6	12.63
L08050566-03	1.00	01	7.71	11.08	15.43	9.17	17.6	12.63
L08050566-04	1.00	01	7.71	11.08	15.42	9.16	17.58	12.63
WG272275-01	1.00	01	7.7	11.07	15.41	9.16	17.58	12.62
WG272275-02	1.00	01	7.7	11.07	15.41	9.16	17.58	12.62
WG272275-03	1.00	01	7.71	11.08	15.42	9.16	17.58	12.63

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Acenaphthene-d10
IS-3 - Chrysene-d12
IS-4 - Naphthalene-d8
IS-5 - Perylene-d12
IS-6 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 1104614
Report generated: 05/29/2008 16:13

2.3 General Chemistry Data

2.3.1 Percent Solids Data

2.3.1.1 Raw Data

LABORATORY REPORT

L08050566

06/20/08 14:49

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3125 Poplarwood Court Suite 400
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: CH2MHILL TECH CTR
Site: DOW TECH CENTER
Invoice Number: 594451
P.O. Number: 921214

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0127-SO01-052308	L08050566-01	D2216-90	1	23-MAY-08
0128-SO01-052308	L08050566-02	D2216-90	1	23-MAY-08
0131-SO01-052308	L08050566-03	D2216-90	1	23-MAY-08
0132-SO01-052308	L08050566-04	D2216-90	1	23-MAY-08

Microbac Laboratories Inc.

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	**L08050566-01**	PrePrep Method:	**NONE**	Instrument:	**BAL001**
Client ID:	**0127-SO01-052308**	Prep Method:	**D2216-90**	Prep Date:	**05/19/2008 11:08**
Matrix:	**Soil**	Analytical Method:	**D2216-90**	Cal Date:	
Workgroup Number:	**WG272462**	Analyst:	**JDH**	Run Date:	**05/19/2008 11:08**
Collect Date:	**05/23/2008 10:50**	Dilution:	**1**	File ID:	**B1.272462-0112**
Sample Tag:	**01**	Units:	**weight %**		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	**10-02-6**	**93.0**		**1.00**	**1.00**

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0128-SO01-052308	Prep Method:	D2216-90	Prep Date:	05/19/2008 11:08
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG272462	Analyst:	JDH	Run Date:	05/19/2008 11:08
Collect Date:	05/23/2008 11:20	Dilution:	1	File ID:	B1.272462-0113
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	84.1		1.00	1.00

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0131-SO01-052308	Prep Method:	D2216-90	Prep Date:	05/19/2008 11:08
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG272462	Analyst:	JDH	Run Date:	05/19/2008 11:08
Collect Date:	05/23/2008 12:10	Dilution:	1	File ID:	B1.272462-0114
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	84.1		1.00	1.00

Report Number: **L08050566**
Report Date : **June 20, 2008**

Sample Number:	L08050566-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0132-SO01-052308	Prep Method:	D2216-90	Prep Date:	05/19/2008 11:08
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG272462	Analyst:	JDH	Run Date:	05/19/2008 11:08
Collect Date:	05/23/2008 12:15	Dilution:	1	File ID:	B1.272462-0115
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	96.0		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG272462 Analyst:JDH ADT(on):05/28/2008 16:15
Method:D2216-90 Instrument:BAL001 ADT(off):05/19/2008 11:08
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L08050512-01	1.29	27.33	23.07			83.64	
L08050512-02	1.29	30.88	27.45			88.41	
L08050566-01	1.29	29.88	27.88			93.00	
L08050566-02	1.28	25.37	21.55			84.14	
L08050566-03	1.29	18.93	16.13			84.13	
L08050566-04	1.29	19.22	18.5			95.98	
L08050578-07	1.26	14.63	12.35			82.95	
L08050578-08	1.27	16.58	13.84			82.10	
L08050578-09	1.28	16.05	13.69			84.02	
L08050578-10	1.27	20.6	18.09			87.02	
L08050578-11	1.28	21.29	18.78			87.46	
L08050578-12	1.29	19.11	16.9			87.60	
L08050578-13	1.3	17.4	14.57			82.42	
L08050578-14	1.29	19.36	16.06			81.74	
L08050578-15	1.29	16.52	13.83			82.34	
WG272462-01	1.29	19.22	18.5			95.98	4.016
WG272462-02	1.28	22.07	18.88			84.66	15.34

Analyst:

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1105024
Report generated: 05/29/2008 11:12

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
June 20, 2008

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
AM – ALISON J. MILLER	AML – ANTHONY M. LONG	ASP – AARON S. PETRIE
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS
CAH – CHARLES A. HALL	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLW – CHARISSA L. WINTERS	CMS – CRYSTAL M. STEPHENS	CPD – CHAD P. DAVIS
CSH – CHRIS S. HILL	CTB – CHRIS T. BUCINA	DDE – DEBRA D. ELLIOTT
DEL – DON E. LIGHTFRITZ	DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DR – DEANNA ROBERTS	DSF – DEBRA S. FREDERICK
ECL – ERIC C. LAWSON	ED – EMILY E. DECKER	EDH – ETHAN D. MORRIS
ERE – ERIN R. PORTER	FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR
HJR – HOLLY J. REED	JBK – JEREMY B. KINNEY	JC – JOHN L. CONLEY
JDH – JUSTIN D. HESSON	JKP – JACQUELINE K. PARSONS	JKT – JANE K. THOMPSON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES	JYH – JI Y. HU
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KJW – KATIE J. WIEFERICH
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MICHAEL D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
NPM – NATHANIEL P. MILLER	RAH – ROY A. HALSTEAD	RB – ROBERT BUCHANAN
REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL
SDH – SHANA D. HINYARD	SDL – SHELLY D. LENT	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	SMH – SHAUNA M. HYDE	TDH – TRICIA D. HUCK
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WTD – WADE T. DELONG	

Microbac Laboratories Inc.
List of Valid Qualifiers
June 20, 2008

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 04548

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

B15295

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

Company Name: CH2M HILL

Project Contact: Paul Weber

Contact Phone #: 919-760-1778

Turn Around Requirements: 7 DAY

Location: Tech Park

Project ID: 331178.01.FI - Tech Park Dvest Invstg PO: 928102

Sampler (print): Kevin Olness

Signature: [signature]

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOCs	SVOCs	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS Sample interval
1027-S001-052308	X		05/23/08	1050	Soil	4		X	X		2-3
1028-S001-052308	X		"	1120	Soil	4		X	X		1-2
1030-S001-052308	X		"	1210	Soil	4		X	X		0-1
1031-S001-052308	X		"	1215	Soil	4		X	X		0-1
TB01-052308			05/23/08	1240	water	2		X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	05/23/08	1250			5-23-08	1300	[signature]

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
[signature]	5-23-08	1430	Erin Potter	5-23-08	1430	

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

Microbac Laboratories, Inc. **SAMPLE RECEIPT FORM**

158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

Client:	CH2M Hill
Workorder Number:	B —
Date Received:	5-23-08
Delivered by:	( ) Fedex ( ) UPS ( ) Client (✓) Courier **Time:** 1430
Opened by:	CP
IR Temp Gun:	(✓) D ( ) G
Logged by:	EP L 060505de

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
2114	1	N/A		7D TAT

Inspection Checklist	**Y**	**N**	**NA**	**Discrepancy ID**
Were shipping coolers sealed?			✓	
Were custody seals intact?			✓	
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓			
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)			✓	
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?	✓			
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative:	
Client/Company:	
Person Contacted:	
Date contacted:	

Resolution/other comments:

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050566
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050566-02	462180	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Samplenum	Container ID	Products
L08050566-03	462185	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	23-MAY-2008 14:58	JKT	
2	PREP	W1	EXT	27-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	27-MAY-2008 09:09	JKT	CEB
4	ANALYZ	W1	WET	28-MAY-2008 16:07	JDH	RLK
5	STORE	WET	A2	29-MAY-2008 08:14	RLK	DIH
6	STORE	W1	A2	09-JUN-2008 14:56	ERE	ERE

Samplenum	Container ID	Products
L08050566-02	462182	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	23-MAY-2008 14:58	JKT	
2	PREP	W1	EXT	27-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	27-MAY-2008 09:09	JKT	CEB
4	ANALYZ	W1	WET	28-MAY-2008 16:07	JDH	RLK
5	STORE	W1	A2	09-JUN-2008 14:56	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050566
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050566-05	462189	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	23-MAY-2008 14:58	JKT	
2	ANALYZ	V1	ORG4	27-MAY-2008 12:14	MRT	ERE
3	STORE	ORG4	A2	06-JUN-2008 10:09	ERE	AM

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	23-MAY-2008 14:58	JKT	
2	ANALYZ	V1	ORG4	27-MAY-2008 12:14	MRT	ERE
3	STORE	ORG4	A2	06-JUN-2008 10:09	ERE	AM

Samplenum	Container ID	Products
L08050566-04	462187	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE

Samplenum	Container ID	Products
L08050566-04	462186	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050566
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050566-02	462181	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE

Samplenum	Container ID	Products
L08050566-04	462188	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	23-MAY-2008 14:58	JKT	
2	PREP	W1	EXT	27-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	27-MAY-2008 09:09	JKT	CEB
4	ANALYZ	W1	WET	28-MAY-2008 16:07	JDH	RLK
5	STORE	WET	A2	29-MAY-2008 08:14	RLK	DIH
6	STORE	W1	A2	09-JUN-2008 14:56	ERE	ERE

Samplenum	Container ID	Products
L08050566-01	462179	827-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	23-MAY-2008 14:58	JKT	
2	PREP	W1	EXT	27-MAY-2008 06:37	CEB	ERE
3	STORE	EXT	W1	27-MAY-2008 09:10	JKT	CEB
4	ANALYZ	W1	WET	28-MAY-2008 16:07	JDH	RLK
5	STORE	WET	A2	29-MAY-2008 08:14	RLK	DIH
6	STORE	W1	A2	09-JUN-2008 14:56	ERE	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L08050566
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050566-01	462177	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Samplenum	Container ID	Products
L08050566-01	462178	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L08050566
Account: 2736
Project: 2736.042
Samples: 5
Due Date: 30-MAY-2008

Samplenum	Container ID	Products
L08050566-03	462183	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE
3	STORE	VOAY	A2	20-JUN-2008 09:49	RLK	AM

Samplenum	Container ID	Products
L08050566-03	462184	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	23-MAY-2008 14:58	JKT	
2	ANALYZ	L1	VOAY	23-MAY-2008 15:18	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L09090180

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	kalbertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	smossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	tlong@microbac.com
Amanda Fickiesen	*Client Services Specialist*	afickiesen@microbac.com
Annie Brown	*Client Services Specialist*	abrown@microbac.com

This report was reviewed on September 22, 2009.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

The reported results are related only to the samples analyzed as received.

Client: Paul Weber, CH2MHILL, Raleigh, NC, 27604

This report was certified on September 22, 2009.

David Vandenberg - Managing Director

State of origin: West Virginia
Accrediting authority: Department of Environmental Protection ID:361
QAPP: DOW-WVO
This report contains a total of 189 pages.

Look closer. Go further. Do more.

Microbac

Microbac Laboratories, Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800.373.4071
Fax: 740.373.4835

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LOOK CLOSER, GO FURTHER, DO MORE.

Microbac REPORT L09090180
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L09090180

CHAIN OF CUSTODY: The chain of custody number was 14505

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 3 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L09090180-01	0071-SS-083109
L09090180-02	0071-SS-083109-MS
L09090180-03	0071-SS-083109-MSD
L09090180-04	0071-SO-083109
L09090180-05	0071-SO-083109-FD
L09090180-06	0201-SS-083109
L09090180-07	0202-SS-083109
L09090180-08	0203-SS-083109
L09090180-09	0204-SS-083109
L09090180-10	SS4-SS-083109
L09090180-11	SS4-SS-083109-MS
L09090180-12	SS4-SS-083109-MSD
L09090180-13	SS4-SO-083109
L09090180-14	SS4-SO-083109-FD
L09090180-15	0205-SS-083109
L09090180-16	0206-SS-083109
L09090180-17	0207-SS-083109
L09090180-18	0208-SS-083109
L09090180-19	EB01-083109

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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.

Approved: 10-SEP-09
Kathy Albertson

2.1 Metals Data

2.1.1 Metals ICP-MS Data

2.1.1.1 Summary Data

Microbac Laboratories Inc.
METALS

Microbac Login No: L09090180

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6020

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.

Interference Check Samples: 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.

MS/MSD: WG312285(6020) - Sample 10 was chosen by the client for MS/MSD analysis. Samples 11(MS) and 12(MSD) yielded a noncompliant recovery for arsenic.

Serial Dilution/Post Digestion Spike: WG311853(6020) - All acceptance criteria were met.

WG312285(6020) - 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 Microbac Laboratories Inc., 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: JYH

Approved: 22-SEP-09

LABORATORY REPORT

L09090180

09/22/09 10:13

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

P.O. Number: 935102

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
SS4-SS-083109	L09090180-10	6020	1	03-SEP-09
SS4-SS-083109-MS	L09090180-11	6020	1	03-SEP-09
SS4-SS-083109-MSD	L09090180-12	6020	1	03-SEP-09
SS4-SO-083109	L09090180-13	6020	1	03-SEP-09
SS4-SO-083109-FD	L09090180-14	6020	1	03-SEP-09
0205-SS-083109	L09090180-15	6020	1	03-SEP-09
0206-SS-083109	L09090180-16	6020	1	03-SEP-09
0207-SS-083109	L09090180-17	6020	1	03-SEP-09
0208-SS-083109	L09090180-18	6020	1	03-SEP-09
EB01-083109	L09090180-19	6020	1	03-SEP-09

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-10	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SS4-SS-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 11:40
Collect Date:	08/31/2009 14:20	Dilution:	1	File ID:	EL.091809.114049
Sample Tag:	01	Units:	mg/kg	Percent Solid:	91.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	5.06		0.330	0.0825

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-11	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SS4-SS-083109-MS	Prep Method:	3051	Prep Date:	09/14/2009 07:51
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 11:47
Collect Date:	08/31/2009 14:20	Dilution:	1	File ID:	EL.091809.114704
Sample Tag:	01	Units:	mg/kg	Percent Solid:	91.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	13.3		0.330	0.0825

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-12	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SS4-SS-083109-MSD	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 11:53
Collect Date:	08/31/2009 14:20	Dilution:	1	File ID:	EL.091809.115318
Sample Tag:	01	Units:	mg/kg	Percent Solid:	91.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	14.3		0.330	0.0825

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-13	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SS4-SO-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 11:59
Collect Date:	08/31/2009 14:30	Dilution:	1	File ID:	EL.091809.115933
Sample Tag:	01	Units:	mg/kg	Percent Solid:	87.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	4.58		0.342	0.0855

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-14	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	SS4-SO-083109-FD	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 12:05
Collect Date:	08/31/2009 14:30	Dilution:	1	File ID:	EL.091809.120548
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	4.34		0.348	0.0871

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-15	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	0205-SS-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 12:38
Collect Date:	08/31/2009 14:40	Dilution:	1	File ID:	EL.091809.123825
Sample Tag:	01	Units:	mg/kg	Percent Solid:	92.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	4.92		0.323	0.0806

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-16	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	0206-SS-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 12:44
Collect Date:	08/31/2009 14:50	Dilution:	1	File ID:	EL.091809.124442
Sample Tag:	01	Units:	mg/kg	Percent Solid:	91.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	3.81		0.307	0.0767

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-17	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	0207-SS-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 12:50
Collect Date:	08/31/2009 14:55	Dilution:	1	File ID:	EL.091809.125057
Sample Tag:	01	Units:	mg/kg	Percent Solid:	92.2

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	2.90		0.325	0.0813

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-18	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	0208-SS-083109	Prep Method:	3051	Prep Date:	09/14/2009 07:52
Matrix:	Soil	Analytical Method:	6020	Cal Date:	09/18/2009 10:27
Workgroup Number:	WG312285	Analyst:	JYH	Run Date:	09/18/2009 12:57
Collect Date:	08/31/2009 15:00	Dilution:	1	File ID:	EL.091809.125711
Sample Tag:	01	Units:	mg/kg	Percent Solid:	91.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	3.64		0.325	0.0813

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-19	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	EB01-083109	Prep Method:	3015	Prep Date:	09/10/2009 06:43
Matrix:	Water	Analytical Method:	6020	Cal Date:	09/11/2009 13:44
Workgroup Number:	WG311853	Analyst:	JYH	Run Date:	09/11/2009 15:16
Collect Date:	08/31/2009 15:20	Dilution:	1	File ID:	EL.091109.151614
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2		U	0.0100	0.000500

U Not detected at or above the reporting limit (RL).

2.1.1.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	100
Vi = Initial volume	40
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/L)	0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Final volume	200
Vi = Initial volume	0.5
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in (ug/kg)	40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	40
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS

STANDARDS KEY

QC Std 1 - ICV
QC Std 2 - ICB
QC Std 3 - CRI - Soil
QC Std 4 - CRI - Water
QC Std 5 - ICSA
QC Std 6 - ICSAB
QC Std 7 - CCV
QC Std 8 - CCB

Calibration Solutions

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
U	1000	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG311773
Analyst: VC
Spike Analyst: VC
Run Date: 09/10/2009 06:43
Method: 3015

SOP: ME407 Revison 10
Spike Solution: STD33694
Spike Witness: REK
HNO3 Lot #: COA13945
Digest tubes Lot #: COA14115

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG311773-04	BLANK	1	40 mL	100 mL	207.53 g	207.452 g		
2	WG311773-05	LCS	1	40 mL	100 mL	208.527 g	208.509 g	.25 mL	
3	WG311773-01	REF	2	40 mL	100 mL	206.951 g	206.926 g		
4	L09090167-02	RS02	2	40 mL	100 mL	206.951 g	206.926 g		09/18/09
5	L09090167-04	DS02	2	40 mL	100 mL	208.211 g	208.187 g		09/18/09
6	WG311773-06	MS	2	40 mL	100 mL	206.459 g	206.443 g	.25 mL	
7	L09090167-06	MS02	2	40 mL	100 mL	206.459 g	206.443 g	.25 mL	09/18/09
8	WG311773-07	MSD	2	40 mL	100 mL	206.74 g	206.708 g	.25 mL	
9	L09090167-08	SD02	2	40 mL	100 mL	206.74 g	206.708 g	.25 mL	09/18/09
10	L09090167-10	SAMP	2	40 mL	100 mL	206.075 g	206.057 g		09/18/09
11	L09090167-12	SAMP	2	40 mL	100 mL	206.151 g	206.122 g		09/18/09
12	L09090167-14	SAMP	2	40 mL	100 mL	205.632 g	205.596 g		09/18/09
13	L09090171-02	SAMP	1	40 mL	100 mL	209.899 g	209.883 g		09/14/09
14	L09090171-03	SAMP	1	40 mL	100 mL	207.509 g	207.481 g		09/14/09
15	L09090180-19	SAMP	1	40 mL	100 mL	205.96 g	205.932 g		09/22/09
16	WG311773-02	REF	2	40 mL	100 mL	206.456 g	206.426 g		
17	L09090189-01	SAMP	2	40 mL	100 mL	206.456 g	206.426 g		09/11/09
18	L09090204-02	SAMP	2	40 mL	100 mL	204.874 g	204.855 g		09/18/09
19	L09090204-04	SAMP	2	40 mL	100 mL	206.28 g	206.255 g		09/18/09
20	L09090204-06	SAMP	2	40 mL	100 mL	209.839 g	209.828 g		09/18/09
21	L09090204-08	SAMP	2	40 mL	100 mL	209.603 g	209.585 g		09/18/09
22	WG311773-03	REF	2	40 mL	100 mL	208.464 g	208.45 g		
23	L09090204-10	RS02	2	40 mL	100 mL	208.464 g	208.45 g		09/18/09
24	L09090204-12	SAMP	2	40 mL	100 mL	206.257 g	206.23 g		09/18/09
25	WG311773-09	MS	2	40 mL	100 mL	207.512 g	207.489 g	.25 mL	
26	L09090204-14	MS02	2	40 mL	100 mL	207.512 g	207.489 g	.25 mL	09/18/09
27	WG311773-10	MSD	2	40 mL	100 mL	210.906 g	210.895 g	.25 mL	
28	L09090204-16	SD02	2	40 mL	100 mL	210.906 g	210.895 g	.25 mL	09/18/09
29	WG311773-08	DUP	1	40 mL	100 mL	209.918 g	209.894 g		

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 07/02/2008
PDF ID: 1485991
Report generated: 09/10/2009 08:20

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup: WG311999
Analyst: VC
Spike Analyst: VC
Run Date: 09/14/2009 07:52
Method: 3051

SOP: ME406 Revison 11
Spike Solution: STD33694
Spike Witness: REK
Digest tubes Lot #: COA14115
HNO3 Lot #: COA14147

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG311999-02	BLANK	7	.5 g	200 mL	174.074 g	174.063 g		
2	WG311999-03	LCS	7	.5 g	200 mL	174.379 g	174.369 g	.5 mL	
3	WG311999-01	REF	7	.5 g	200 mL	175.269 g	175.257 g		
4	L09090180-10	RS02	7	.5 g	200 mL	175.269 g	175.257 g		09/22/09
5	WG311999-04	MS	7	.5 g	200 mL	176.162 g	176.147 g	.5 mL	
6	L09090180-11	MS02	7	.5 g	200 mL	176.162 g	176.147 g	.5 mL	09/22/09
7	WG311999-05	MSD	7	.5 g	200 mL	174.402 g	174.392 g	.5 mL	
8	L09090180-12	SD02	7	.5 g	200 mL	174.402 g	174.392 g	.5 mL	09/22/09
9	L09090180-13	SAMP	7	.502 g	200 mL	174.121 g	174.112 g		09/22/09
10	L09090180-14	SAMP	7	.506 g	200 mL	171.461 g	171.452 g		09/22/09
11	L09090180-15	SAMP	7	.502 g	200 mL	173.849 g	173.843 g		09/22/09
12	L09090180-16	SAMP	7	.533 g	200 mL	173.94 g	173.929 g		09/22/09
13	L09090180-17	SAMP	7	.5 g	200 mL	173.522 g	173.516 g		09/22/09
14	L09090180-18	SAMP	7	.504 g	200 mL	174.12 g	174.115 g		09/22/09
15	L09090256-02	SAMP	7	.51 g	200 mL	176.955 g	176.946 g		09/25/09

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 07/02/2008
PDF ID: 1488742
Report generated: 09/14/2009 08:57

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091009A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev:
Maintenance Log ID: 30099

Calibration Std: STD34775 ICV/CCV Std: STD34615 Post Spike: STD33697
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35014

Workgroups: 311392,311732,311853

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.091009.121146	Blank	Blank		1		09/10/09 12:11
2	EL.091009.121730	WG311886-01	Calibration Point		1		09/10/09 12:17
3	EL.091009.122313	WG311886-02	Calibration Point		1		09/10/09 12:23
4	EL.091009.122858	WG311886-03	Calibration Point		1		09/10/09 12:28
5	EL.091009.123443	WG311886-04	Calibration Point		1		09/10/09 12:34
6	EL.091009.124029	WG311886-05	Initial Calibration Verification		1		09/10/09 12:40
7	EL.091009.124723	WG311886-06	Initial Calib Blank		1		09/10/09 12:47
8	EL.091009.125419	WG311886-07	CRQL Check Solid		1		09/10/09 12:54
9	EL.091009.130118	WG311886-08	CRQL Check Water		1		09/10/09 13:01
10	EL.091009.130816	WG311886-09	Interference Check		1		09/10/09 13:08
11	EL.091009.131513	WG311886-10	Interference Check		1		09/10/09 13:15
12	EL.091009.132210	WG311886-11	CCV		1		09/10/09 13:22
13	EL.091009.132904	WG311886-12	CCB		1		09/10/09 13:29
14	EL.091009.133913	WG311349-02	Method/Prep Blank		1		09/10/09 13:39
15	EL.091009.134526	WG311296-01	Fluid Blank		1		09/10/09 13:45
16	EL.091009.135140	WG311349-03	Laboratory Control S		1		09/10/09 13:51
17	EL.091009.135754	WG311349-01	Reference Sample		2	L09090034-01	09/10/09 13:57
18	EL.091009.140408	WG311349-04	Matrix Spike	5/50	2	L09090034-01	09/10/09 14:04
19	EL.091009.141022	WG311349-05	Matrix Spike Duplica	5/50	2	L09090034-01	09/10/09 14:10
20	EL.091009.141637	L09090018-10	2009071310	1/50	2		09/10/09 14:16
21	EL.091009.142253	WG311392-03	Post Digestion Spike		2	L09090018-10	09/10/09 14:22
22	EL.091009.142908	WG311392-04	Serial Dilution		10	L09090018-10	09/10/09 14:29
23	EL.091009.143544	WG311886-13	CCV		1		09/10/09 14:35
24	EL.091009.144239	WG311886-14	CCB		1		09/10/09 14:42
25	EL.091009.144913	WG311657-03	Method/Prep Blank	40/100	1		09/10/09 14:49
26	EL.091009.145530	WG311654-01	Fluid Blank		1		09/10/09 14:55
27	EL.091009.150146	WG311657-04	Laboratory Control S	40/100	1		09/10/09 15:01
28	EL.091009.150802	WG311657-08	Reference Sample		1	L09090155-02	09/10/09 15:08
29	EL.091009.151415	WG311657-09	Matrix Spike	40/100	1	L09090155-02	09/10/09 15:14
30	EL.091009.152029	WG311657-10	Matrix Spike Duplica	40/100	1	L09090155-02	09/10/09 15:20
31	EL.091009.152644	L09090147-15	AV-NCB-STP-10-C1-090109	40/100	1		09/10/09 15:26
32	EL.091009.153259	L09090147-17	AV-NCB-EB-1-090209	40/100	1		09/10/09 15:32
33	EL.091009.153914	WG311732-01	Post Digestion Spike		1	L09090147-17	09/10/09 15:39
34	EL.091009.154529	WG311732-02	Serial Dilution		5	L09090147-17	09/10/09 15:45
35	EL.091009.155205	WG311886-15	CCV		1		09/10/09 15:52
36	EL.091009.155900	WG311886-16	CCB		1		09/10/09 15:59
37	EL.091009.160532	WG311349-02	Method/Prep Blank	5/50	2		09/10/09 16:05

Page: 1 Approved: September 11, 2009

Maren Berry

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091009A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev:
Maintenance Log ID: 30099

Calibration Std: STD34775 ICV/CCV Std: STD34615 Post Spike: STD33697
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35014

Workgroups: 311392,311732,311853

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.091009.161146	WG311296-01	Fluid Blank		2		09/10/09 16:11
39	EL.091009.161934	WG311349-03	Laboratory Control S	5/50	10		09/10/09 16:19
40	EL.091009.162609	WG311886-17	CCV		1		09/10/09 16:26
41	EL.091009.163304	WG311886-18	CCB		1		09/10/09 16:33
42	EL.091009.163938	L09090010-02	TRACE METALS	40/100	10		09/10/09 16:39
43	EL.091009.164554	L09090010-02	TRACE METALS		50		09/10/09 16:45
44	EL.091009.165210	L09090147-18	AV-NCB-STP-99-C1-090309	40/100	1		09/10/09 16:52
45	EL.091009.165827	L09090149-01	ZIMMERMAN WATER WEL	40/100	1		09/10/09 16:58
46	EL.091009.170444	L09090155-01	BCR EFFLUENT	40/100	1	WG311657-02	09/10/09 17:04
47	EL.091009.171100	WG311657-07	Duplicate	40/100	1	L09090155-01	09/10/09 17:11
48	EL.091009.171714	L09090160-01	FB027 (090409)	40/100	1		09/10/09 17:17
49	EL.091009.172349	WG311886-19	CCV		1		09/10/09 17:23
50	EL.091009.173044	WG311886-20	CCB		1		09/10/09 17:30
51	EL.091009.173738	WG311886-21	Interference Check		1		09/10/09 17:37
52	EL.091009.174435	WG311886-22	Interference Check		1		09/10/09 17:44
53	EL.091009.175132	WG311886-23	CCV		1		09/10/09 17:51
54	EL.091009.175827	WG311886-24	CCB		1		09/10/09 17:58
55	EL.091009.180500	WG311773-04	Method/Prep Blank	40/100	1		09/10/09 18:05
56	EL.091009.181113	WG311773-05	Laboratory Control S	40/100	1		09/10/09 18:11
57	EL.091009.181726	L09090189-01	OUTFALL 002/COMP	40/100	2		09/10/09 18:17
58	EL.091009.182340	WG311773-08	Duplicate	40/100	2	L09090189-01	09/10/09 18:23
59	EL.091009.182955	WG311773-01	Reference Sample		1	L09090167-02	09/10/09 18:29
60	EL.091009.183609	WG311773-06	Matrix Spike	40/100	1	L09090167-02	09/10/09 18:36
61	EL.091009.184224	WG311773-07	Matrix Spike Duplica	40/100	1	L09090167-02	09/10/09 18:42
62	EL.091009.184839	L09090167-04	LCL-G-MW4-DIS-DUP	40/100	1		09/10/09 18:48
63	EL.091009.185455	WG311853-01	Post Digestion Spike		1	L09090167-04	09/10/09 18:54
64	EL.091009.190111	WG311853-02	Serial Dilution		5	L09090167-04	09/10/09 19:01
65	EL.091009.190747	WG311886-25	CCV		1		09/10/09 19:07
66	EL.091009.191442	WG311886-26	CCB		1		09/10/09 19:14
67	EL.091009.192117	L09090167-10	LCL-G-MW11A-DIS	40/100	1		09/10/09 19:21
68	EL.091009.192733	L09090167-12	LCL-G-MW11A-DIS-DUP	40/100	1		09/10/09 19:27
69	EL.091009.193348	L09090167-14	LCL-G-MW14B-DIS	40/100	1		09/10/09 19:33
70	EL.091009.194002	L09090171-03	09-001-09	40/100	1		09/10/09 19:40
71	EL.091009.194616	L09090180-19	EB01-083109		1		09/10/09 19:46
72	EL.091009.195231	L09090204-02	LCL-G-MW6-DIS	40/100	1		09/10/09 19:52
73	EL.091009.195846	L09090204-04	LCL-G-MW9-DIS	40/100	1		09/10/09 19:58
74	EL.091009.200501	L09090204-06	LCL-G-MW10-DIS	40/100	1		09/10/09 20:05

Page: 2 Approved: September 11, 2009

Maren Berry

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091009A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev:
Maintenance Log ID: 30099

Calibration Std: STD34775 ICV/CCV Std: STD34615 Post Spike: STD33697
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35014

Workgroups: 311392,311732,311853

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	EL.091009.201116	L09090204-08	LCL-K-EQBLK-1-DIS	40/100	1		09/10/09 20:11
76	EL.091009.201752	WG311886-27	CCV		1		09/10/09 20:17
77	EL.091009.202447	WG311886-28	CCB		1		09/10/09 20:24
78	EL.091009.203121	WG311773-03	Reference Sample		1	L09090204-10	09/10/09 20:31
79	EL.091009.203738	WG311773-09	Matrix Spike	40/100	1	L09090204-10	09/10/09 20:37
80	EL.091009.204354	WG311773-10	Matrix Spike Duplica	40/100	1	L09090204-10	09/10/09 20:43
81	EL.091009.205011	L09090204-12	LCL-G-MW13B-DIS	40/100	1		09/10/09 20:50
82	EL.091009.205628	L09090171-02	09-001-09	40/100	1		09/10/09 20:56
83	EL.091009.210305	WG311886-29	CCV		1		09/10/09 21:03
84	EL.091009.211000	WG311886-30	CCB		1		09/10/09 21:10

  Approved: September 11, 2009

Maren Berry

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091109B.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 30127

Calibration Std: STD34775 ICV/CCV Std: STD34615 Post Spike: N/A
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35014

Workgroups: 311853,311936,311956

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.091109.132113	Blank	Blank		1		09/11/09 13:21
2	EL.091109.132656	WG312001-01	Calibration Point		1		09/11/09 13:26
3	EL.091109.133240	WG312001-02	Calibration Point		1		09/11/09 13:32
4	EL.091109.133824	WG312001-03	Calibration Point		1		09/11/09 13:38
5	EL.091109.134409	WG312001-04	Calibration Point		1		09/11/09 13:44
6	EL.091109.134955	WG312001-05	Initial Calibration Verification		1		09/11/09 13:49
7	EL.091109.135650	WG312001-06	Initial Calib Blank		1		09/11/09 13:56
8	EL.091109.140346	WG312001-07	CRQL Check Solid		1		09/11/09 14:03
9	EL.091109.141045	WG312001-08	CRQL Check Water		1		09/11/09 14:10
10	EL.091109.141743	WG312001-09	Interference Check		1		09/11/09 14:17
11	EL.091109.142439	WG312001-10	Interference Check		1		09/11/09 14:24
12	EL.091109.143136	WG312001-11	CCV		1		09/11/09 14:31
13	EL.091109.143831	WG312001-12	CCB		1		09/11/09 14:38
14	EL.091109.144504	WG311773-04	Method/Prep Blank	40/100	1		09/11/09 14:45
15	EL.091109.145117	WG311773-05	Laboratory Control S	40/100	1		09/11/09 14:51
16	EL.091109.145731	WG311773-01	Reference Sample		1	L09090167-02	09/11/09 14:57
17	EL.091109.150345	WG311773-06	Matrix Spike	40/100	1	L09090167-02	09/11/09 15:03
18	EL.091109.150959	WG311773-07	Matrix Spike Duplica	40/100	1	L09090167-02	09/11/09 15:09
19	EL.091109.151614	L09090180-19	EB01-083109	40/100	1		09/11/09 15:16
20	EL.091109.152228	WG311853-03	Post Digestion Spike		1	L09090180-19	09/11/09 15:22
21	EL.091109.152844	WG311853-04	Serial Dilution		5	L09090180-19	09/11/09 15:28
22	EL.091109.153520	WG312001-13	Interference Check		1		09/11/09 15:35
23	EL.091109.154217	WG312001-14	Interference Check		1		09/11/09 15:42
24	EL.091109.154914	WG312001-15	CCV		1		09/11/09 15:49
25	EL.091109.155608	WG312001-16	CCB		1		09/11/09 15:56
26	EL.091109.160244	WG311956-03	Louisville Chem Requ		1		09/11/09 16:02
27	EL.091109.161144	WG311891-02	Method/Prep Blank	40/100	1		09/11/09 16:11
28	EL.091109.161800	WG311891-04	Filter Blank		1		09/11/09 16:18
29	EL.091109.162417	WG311891-03	Laboratory Control S	40/100	1		09/11/09 16:24
30	EL.091109.163033	WG311891-01	Reference Sample		1	L09090206-02	09/11/09 16:30
31	EL.091109.163648	WG311891-05	Matrix Spike	40/100	1	L09090206-02	09/11/09 16:36
32	EL.091109.164302	WG311891-06	Matrix Spike Duplica	40/100	1	L09090206-02	09/11/09 16:43
33	EL.091109.164916	L09090206-01	01SYS-EFF-090909	40/100	1		09/11/09 16:49
34	EL.091109.165531	WG311936-01	Post Digestion Spike		1	L09090206-01	09/11/09 16:55
35	EL.091109.170145	WG311936-02	Serial Dilution		5	L09090206-01	09/11/09 17:01
36	EL.091109.170821	WG312001-17	CCV		1		09/11/09 17:08
37	EL.091109.171516	WG312001-18	CCB		1		09/11/09 17:15

Page: 1 Approved: September 14, 2009

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091109B.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 30127

Calibration Std: STD34775 ICV/CCV Std: STD34615 Post Spike: N/A
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35014

Workgroups: 311853,311936,311956

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.091109.172152	WG311956-04	Louisville Chem Requ		1		09/11/09 17:21
39	EL.091109.172809	WG311913-02	Method/Prep Blank	.5/200	1		09/11/09 17:28
40	EL.091109.173424	WG311913-03	Laboratory Control S	.5/200	1		09/11/09 17:34
41	EL.091109.174040	WG311913-01	Reference Sample		1	L09080648-02	09/11/09 17:40
42	EL.091109.174657	WG311913-04	Matrix Spike	.5/200	1	L09080648-02	09/11/09 17:46
43	EL.091109.175314	WG311913-05	Matrix Spike Duplica	.5/200	1	L09080648-02	09/11/09 17:53
44	EL.091109.175930	L09080648-20	0908-MWD090-02-FB	.507/200	1		09/11/09 17:59
45	EL.091109.180548	L09080648-21	0908-MHR002-04-FB	.507/200	1	L09080648-21	09/11/09 18:05
46	EL.091109.181203	WG311956-01	Post Digestion Spike		1	L09080648-21	09/11/09 18:12
47	EL.091109.181838	WG312001-19	CCV		1		09/11/09 18:18
48	EL.091109.182533	WG312001-20	CCB		1		09/11/09 18:25
49	EL.091109.183206	WG311956-02	Serial Dilution		5	L09080648-21	09/11/09 18:32
50	EL.091109.183821	L09080648-22	0908-MWD087-06-FB		1		09/11/09 18:38
51	EL.091109.184435	L09080648-23	0908-MWD086-07-FB-1		1		09/11/09 18:44
52	EL.091109.185050	L09080648-24	0908-MWD086-07-FB-2		1		09/11/09 18:50
53	EL.091109.185706	L09080648-25	0908-MWD086-07-FB-3		1		09/11/09 18:57
54	EL.091109.190321	L09080648-26	0908-MBH002-05-FB		1		09/11/09 19:03
55	EL.091109.190938	L09080648-27	0908-MBB001-05-FB		1		09/11/09 19:09
56	EL.091109.191554	L09080648-28	0908-MBB001-08-FB		1		09/11/09 19:15
57	EL.091109.192211	L09080648-29	0908-MBB001-10-FB		1		09/11/09 19:22
58	EL.091109.192829	L09080648-40	TOMATO SRM 1573 -1		1		09/11/09 19:28
59	EL.091109.193505	WG312001-21	CCV		1		09/11/09 19:35
60	EL.091109.194200	WG312001-22	CCB		1		09/11/09 19:42
61	EL.091409.075413	WG312001-23	QC Std 5		1		09/14/09 07:54

Page: 2 Approved: September 14, 2009

Sheri L. Pfalzgraf

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091809A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 30202

Calibration/CCV Std: STD35164 ICV Std: STD35331/35329 Post Spike: N/A
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35296

Workgroups: 312285,312460,312457

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.091809.100433	Blank	Blank		1		09/18/09 10:04
2	EL.091809.101016	WG312466-01	Calibration Point		1		09/18/09 10:10
3	EL.091809.101600	WG312466-02	Calibration Point		1		09/18/09 10:16
4	EL.091809.102145	WG312466-03	Calibration Point		1		09/18/09 10:21
5	EL.091809.102730	WG312466-04	Calibration Point		1		09/18/09 10:27
6	EL.091809.103314	WG312466-05	Initial Calibration Verification		1		09/18/09 10:33
7	EL.091809.104007	WG312466-06	Initial Calib Blank		1		09/18/09 10:40
8	EL.091809.104703	WG312466-07	CRQL Check Solid		1		09/18/09 10:47
9	EL.091809.105402	WG312466-08	CRQL Check Water		1		09/18/09 10:54
10	EL.091809.110100	WG312466-09	Interference Check		1		09/18/09 11:01
11	EL.091809.110757	WG312466-10	Interference Check		1		09/18/09 11:07
12	EL.091809.111454	WG312466-11	CCV		1		09/18/09 11:14
13	EL.091809.112148	WG312466-12	CCB		1		09/18/09 11:21
14	EL.091809.112822	WG311999-02	Method/Prep Blank	.5/200	1		09/18/09 11:28
15	EL.091809.113435	WG311999-03	Laboratory Control S	.5/200	1		09/18/09 11:34
16	EL.091809.114049	WG311999-01	Reference Sample		1	L09090180-10	09/18/09 11:40
17	EL.091809.114704	WG311999-04	Matrix Spike	.5/200	1	L09090180-10	09/18/09 11:47
18	EL.091809.115318	WG311999-05	Matrix Spike Duplica	.5/200	1	L09090180-10	09/18/09 11:53
19	EL.091809.115933	L09090180-13	SS4-SO-083109	.502/200	1		09/18/09 11:59
20	EL.091809.120548	L09090180-14	SS4-SO-083109-FD	.506/200	1		09/18/09 12:05
21	EL.091809.121204	WG312285-01	Post Digestion Spike		1	L09090180-14	09/18/09 12:12
22	EL.091809.121820	WG312285-02	Serial Dilution		5	L09090180-14	09/18/09 12:18
23	EL.091809.122456	WG312466-13	CCV		1		09/18/09 12:24
24	EL.091809.123151	WG312466-14	CCB		1		09/18/09 12:31
25	EL.091809.123825	L09090180-15	0205-SS-083109	.502/200	1		09/18/09 12:38
26	EL.091809.124442	L09090180-16	0206-SS-083109	.533/200	1		09/18/09 12:44
27	EL.091809.125057	L09090180-17	0207-SS-083109	.5/200	1		09/18/09 12:50
28	EL.091809.125711	L09090180-18	0208-SS-083109	.504/200	1		09/18/09 12:57
29	EL.091809.130325	L09090256-02	WS2-091009	.51/200	1		09/18/09 13:03
30	EL.091809.130939	WG312160-02	Method/Prep Blank	10/200	1		09/18/09 13:09
31	EL.091809.131615	WG312466-15	Interference Check		1		09/18/09 13:16
32	EL.091809.132311	WG312466-16	Interference Check		1		09/18/09 13:23
33	EL.091809.133008	WG312466-17	CCV		1		09/18/09 13:30
34	EL.091809.133703	WG312466-18	CCB		1		09/18/09 13:37
35	EL.091809.140445	WG312160-03	Laboratory Control S	10/200	1		09/18/09 14:04
36	EL.091809.141059	WG312160-01	Reference Sample		1	L09080426-29	09/18/09 14:10
37	EL.091809.141713	WG312160-04	Matrix Spike	0.037/200	1	L09080426-29	09/18/09 14:17

Page: 1 Approved: September 21, 2009

Maren Berry

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Instrument Run Log

Instrument: ELAN-ICP Dataset: 091809A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 30202

Calibration/CCV Std: STD35164 ICV Std: STD35331/35329 Post Spike: N/A
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35296

Workgroups: 312285,312460,312457

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.091809.142327	WG312160-05	Matrix Spike Duplica	L0.037/200	1	L09080426-29	09/18/09 14:23
39	EL.091809.142942	L09080426-16	A19	10.01/200	1		09/18/09 14:29
40	EL.091809.143556	L09080426-17	A20	L0.019/200	1		09/18/09 14:35
41	EL.091809.144212	L09080426-18	A21	L0.031/200	1		09/18/09 14:42
42	EL.091809.144827	L09080426-19	A22	L0.009/200	1		09/18/09 14:48
43	EL.091809.145449	WG312457-01	Post Digestion Spike		1	L09080426-19	09/18/09 14:54
44	EL.091809.150105	WG312457-02	Serial Dilution		5	L09080426-19	09/18/09 15:01
45	EL.091809.150742	WG312466-19	CCV		1		09/18/09 15:07
46	EL.091809.151436	WG312466-20	CCB		1		09/18/09 15:14
47	EL.091809.152111	L09080426-20	A23	10.03/200	1		09/18/09 15:21
48	EL.091809.152727	L09080426-21	A24	L0.028/200	1		09/18/09 15:27
49	EL.091809.153340	L09080426-22	A25	L0.006/200	1		09/18/09 15:33
50	EL.091809.153954	L09080426-23	A26	10.04/200	1		09/18/09 15:39
51	EL.091809.154609	L09080426-24	A27	L0.013/200	1		09/18/09 15:46
52	EL.091809.155224	L09080426-25	A28	L0.028/200	1		09/18/09 15:52
53	EL.091809.155839	L09080426-26	A29	L0.006/200	1		09/18/09 15:58
54	EL.091809.160454	L09080426-27	A30	L0.042/200	1		09/18/09 16:04
55	EL.091809.161110	L09080426-28	A31	L0.036/200	1		09/18/09 16:11
56	EL.091809.161746	WG312466-21	CCV		1		09/18/09 16:17
57	EL.091809.162441	WG312466-22	CCB		1		09/18/09 16:24
58	EL.091809.163115	WG312142-02	Method/Prep Blank		1		09/18/09 16:31
59	EL.091809.163732	WG312142-03	Laboratory Control S		1		09/18/09 16:37
60	EL.091809.164349	WG312142-01	Reference Sample		1	L09080426-15	09/18/09 16:43
61	EL.091809.165006	WG312142-04	Matrix Spike		1	L09080426-15	09/18/09 16:50
62	EL.091809.165621	WG312142-05	Matrix Spike Duplica		1	L09080426-15	09/18/09 16:56
63	EL.091809.170235	L09080426-01	A1		1		09/18/09 17:02
64	EL.091809.170850	L09080426-02	A2		1		09/18/09 17:08
65	EL.091809.171504	L09080426-03	A4		1		09/18/09 17:15
66	EL.091809.172119	WG312458-01	Post Digestion Spike		1	L09080426-03	09/18/09 17:21
67	EL.091809.172735	WG312458-02	Serial Dilution		5	L09080426-03	09/18/09 17:27
68	EL.091809.173410	WG312466-23	CCV		1		09/18/09 17:34
69	EL.091809.174105	WG312466-24	CCB		1		09/18/09 17:41
70	EL.091809.174740	L09080426-04	A5		1		09/18/09 17:47
71	EL.091809.175356	L09080426-05	A7		1		09/18/09 17:53
72	EL.091809.180012	L09080426-06	A8		1		09/18/09 18:00
73	EL.091809.180629	L09080426-07	A9		1		09/18/09 18:06
74	EL.091809.181246	L09080426-08	A10		1		09/18/09 18:12

Page: 2 Approved: September 21, 2009

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 091809A.REP
Analyst1: JYH Analyst2: N/A
Method: 6020 SOP: ME700 Rev: 6
Maintenance Log ID: 30202

Calibration/CCV Std: STD35164 ICV Std: STD35331/35329 Post Spike: N/A
ICSA: STD34738 ICSAB: STD34739 Int. Std: STD35296

Workgroups: 312285,312460,312457

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	EL.091809.181903	L09080426-09	A12		1		09/18/09 18:19
76	EL.091809.182519	L09080426-10	A13		1		09/18/09 18:25
77	EL.091809.183134	L09080426-11	A14		1		09/18/09 18:31
78	EL.091809.183749	L09080426-12	A15		1		09/18/09 18:37
79	EL.091809.184404	L09080426-13	A16		1		09/18/09 18:44
80	EL.091809.185039	WG312466-25	CCV		1		09/18/09 18:50
81	EL.091809.185734	WG312466-26	CCB		1		09/18/09 18:57
82	EL.091809.190408	L09080426-14	A17		1		09/18/09 19:04
83	EL.091809.191044	WG312466-27	CCV		1		09/18/09 19:10
84	EL.091809.191739	WG312466-28	CCB		1		09/18/09 19:17
85	EL.091809.192413	WG312404-03	Method/Prep Blank	40/100	1		09/18/09 19:24
86	EL.091809.193030	WG312386-01	Fluid Blank		1		09/18/09 19:30
87	EL.091809.193646	WG312404-04	Laboratory Control S	40/100	1		09/18/09 19:36
88	EL.091809.194303	WG312404-01	Reference Sample		1	L09090348-04	09/18/09 19:43
89	EL.091809.194920	WG312404-05	Matrix Spike	40/100	1	L09090348-04	09/18/09 19:49
90	EL.091809.195538	WG312404-06	Matrix Spike Duplica	40/100	1	L09090348-04	09/18/09 19:55
91	EL.091809.200155	L09090351-02	WRP COMPOSITE	40/100	1		09/18/09 20:01
92	EL.091809.200812	WG312460-01	Post Digestion Spike		1	L09090351-02	09/18/09 20:08
93	EL.091809.201426	WG312460-02	Serial Dilution		5	L09090351-02	09/18/09 20:14
94	EL.091809.202102	WG312466-29	CCV		1		09/18/09 20:21
95	EL.091809.202756	WG312466-30	CCB		1		09/18/09 20:27
96	EL.091809.203431	L09090351-04	NRP COMPOSITE	40/100	1		09/18/09 20:34
97	EL.091809.204046	L09090352-02	FILL COMPOSITE	40/100	1		09/18/09 20:40
98	EL.091809.204702	L09090352-04	SIDEWALL COMPOSITE	40/100	1		09/18/09 20:47
99	EL.091809.205318	L09090353-01	GN090037	40/100	1		09/18/09 20:53
100	EL.091809.205934	L09090353-02	GN090038	40/100	1		09/18/09 20:59
101	EL.091809.210551	WG312404-07	Duplicate	40/100	1	L09090353-02	09/18/09 21:05
102	EL.091809.211208	L09090345-01	LH18/24-SP650-6232-GRAB	40/100	1		09/18/09 21:12
103	EL.091809.211826	L09090345-02	LH18/24-SP650-6232-COMP	40/100	1		09/18/09 21:18
104	EL.091809.212444	L09090348-02	EIN0909	40/100	1		09/18/09 21:24
105	EL.091809.213120	WG312466-31	CCV		1		09/18/09 21:31
106	EL.091809.213815	WG312466-32	CCB		1		09/18/09 21:38

  Approved: September 21, 2009

Maren Berry

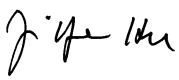
Microbac Laboratories Inc.

Data Checklist

Date: 10-SEP-2009
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 311886
Runlog ID: 30065
Analytical Workgroups: 311392,311732,311853

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	018,010,147,149,155,160,167,171
	189,204
Client Forms	X
Level X	
Level 3	
Level 4	010,147,149,155,160,171
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:



Secondary Reviewer:
11-SEP-2009

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-11-2009 15:36:54

Microbac Laboratories Inc.

Data Checklist

Date: 11-SEP-2009
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 312001
Runlog ID: 30098
Analytical Workgroups: 311853,311936,311956

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	180,206,648
Client Forms	X
Level X	
Level 3	180
Level 4	206,648
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	SLP
Comments	

Primary Reviewer:

Secondary Reviewer:
14-SEP-2009

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-14-2009 10:51:42

Microbac Laboratories Inc.

Data Checklist

Date: 18-SEP-2009
Analyst: JYH
Analyst: NA
Method: 6020
Instrument: ELAN
Curve Workgroup: 312466
Runlog ID: 30208
Analytical Workgroups: 312285,312460,312457

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	180,256,426,345,348,351,352,353
Client Forms	X
Level X	
Level 3	180,256,345
Level 4	348
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:

Secondary Reviewer:
21-SEP-2009

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-21-2009 16:12:04

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG311853

Login Number: L09090180

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
EB01-083109	19	08/31/09					09/10/09	9.6	180		09/11/09	11	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1488726
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6020 AAB#: WG312285

Login Number: L09090180

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
SS4-SS-083109	10	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
SS4-SS-083109-MS	11	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
SS4-SS-083109-MSD	12	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
SS4-SO-083109	13	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
SS4-SO-083109-FD	14	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
0205-SS-083109	15	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
0206-SS-083109	16	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
0207-SS-083109	17	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	
0208-SS-083109	18	08/31/09					09/14/09	13.7	180		09/18/09	17.9	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1488726
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L09090180	Work Group:	WG311853
Blank File ID:	EL.091109.144504	Blank Sample ID:	WG311773-04
Prep Date:	09/10/09 06:43	Instrument ID:	ELAN-ICP
Analyzed Date:	09/11/09 14:45	Method:	6020
Analyst:	JYH		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG311773-05	EL.091009.181113	09/10/09 18:11	01
DUP	WG311773-08	EL.091009.182340	09/10/09 18:23	DL01
LCS	WG311773-05	EL.091109.145117	09/11/09 14:51	02
EB01-083109	L09090180-19	EL.091109.151614	09/11/09 15:16	01

Report Name: BLANK_SUMMARY
PDF File ID: 1488727
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09090180
Work Group: WG312285
Blank File ID: EL.091809.112822
Blank Sample ID: WG311999-02
Prep Date: 09/14/09 07:52
Instrument ID: ELAN-ICP
Analyzed Date: 09/18/09 11:28
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG311999-03	EL.091809.113435	09/18/09 11:34	01
SS4-SS-083109	L09090180-10	EL.091809.114049	09/18/09 11:40	01
SS4-SS-083109-MS	L09090180-11	EL.091809.114704	09/18/09 11:47	01
SS4-SS-083109-MSD	L09090180-12	EL.091809.115318	09/18/09 11:53	01
SS4-SO-083109	L09090180-13	EL.091809.115933	09/18/09 11:59	01
SS4-SO-083109-FD	L09090180-14	EL.091809.120548	09/18/09 12:05	01
0205-SS-083109	L09090180-15	EL.091809.123825	09/18/09 12:38	01
0206-SS-083109	L09090180-16	EL.091809.124442	09/18/09 12:44	01
0207-SS-083109	L09090180-17	EL.091809.125057	09/18/09 12:50	01
0208-SS-083109	L09090180-18	EL.091809.125711	09/18/09 12:57	01

Report Name: BLANK_SUMMARY
PDF File ID: 1488727
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09090180 Prep Date: 09/10/09 06:43 Sample ID: WG311773-04
Instrument ID: ELAN-ICP Run Date: 09/11/09 14:45 Prep Method: 3015
File ID: EL.091109.144504 Analyst: JYH Method: 6020
Workgroup (AAB#): WG311853 Matrix: Water Units: mg/L
Contract #: Cal ID: ELAN-I-11-SEP-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.000500	0.0100	0.0100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1488728
21-SEP-2009 09:29

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09090180 Prep Date: 09/14/09 07:52 Sample ID: WG311999-02
Instrument ID: ELAN-ICP Run Date: 09/18/09 11:28 Prep Method: 3051
File ID: EL.091809.112822 Analyst: JYH Method: 6020
Workgroup (AAB#): WG312285 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-18-SEP-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.0750	0.300	0.300	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1488728
21-SEP-2009 09:29

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09090180 **Run Date:** 09/11/2009 **Sample ID:** WG311773-05
Instrument ID: ELAN-ICP **Run Time:** 14:51 **Prep Method:** 3015
File ID: EL.091109.145117 **Analyst:** JYH **Method:** 6020
Workgroup (AAB#): WG311853 **Matrix:** Water **Units:** mg/L
QC Key: DOWWV2006 **Lot#:** STD33694 **Cal ID:** ELAN-I-11-SEP-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	0.0625	0.0616	98.5	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1488729
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG311999-03
Instrument ID: ELAN-ICP Run Time: 11:34 Prep Method: 3051
File ID: EL.091809.113435 Analyst: JYH Method: 6020
Workgroup (AAB#): WG312285 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD33694 Cal ID: ELAN-I-18-SEP-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	10.0	10.0	100	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1488729
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L09090180 Cal ID: ELAN-ICP- 18-SEP-09 Worknum: WG312285

Instrument ID: ELAN-ICP Contract #: Prep Method: 3051

Parent ID: L09090180-10 File ID: EL.091809.114049 Dil: 1 Method: 6020

Sample ID: L09090180-11 MS File ID: EL.091809.114704 Dil: 1 Matrix: Soil

Sample ID: L09090180-12 MSD File ID: EL.091809.115318 Dil: 1 Units: mg/kg

Percent Solid: 91.0

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic, Total	5.06	11.0	13.3	75	11.0	14.3	83.8	7.03	80 - 120	35	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 09/13/2009

PDF File ID: 1493097

Report generated 09/21/2009 09:32

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L09090180 Cal ID: ELAN-ICP- Worknum: WG311853

Instrument ID: ELAN-ICP Contract #: Method: 6020

Parent ID: WG311773-01 File ID: EL.091109.145731 Dil: 1 Matrix: WATER

Sample ID: WG311773-06 MS File ID: EL.091109.150345 Dil: 1 Units: mg/L

Sample ID: WG311773-07 MSD File ID: EL.091109.150959 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic	0.0230	0.0625	0.0862	101	0.0625	0.0812	93.1	5.89	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID: 1488730

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L09090180 Cal ID:ELAN-ICP- Worknum:WG311853

Instrument ID:ELAN-ICP Contract #: Method:6020

Parent ID:WG311773-03 File ID:EL.091009.203121 Dil:1 Matrix:WATER

Sample ID:WG311773-09 MS File ID:EL.091009.203738 Dil:1 Units:mg/L

Sample ID:WG311773-10 MSD File ID:EL.091009.204354 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Arsenic	0.0118	0.0625	0.0772	105	0.0625	0.0734	98.5	5.16	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID:1488730

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
Serial Dilution Report

Login: L09090180 **Worknum:** WG311853
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG311853-04 **File ID:** EL.091109.152844 **Dil:** 5 **Units:** ug/L
Sample: L09090180-19 **File ID:** EL.091109.151614 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Arsenic	.328	F	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1488724
09/21/2009 09:32

Microbac Laboratories Inc.
Serial Dilution Report

Login: L09090180 **Worknum:** WG312285
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG312285-02 **File ID:** EL.091809.121820 **Dil:** 5 **Units:** ug/L
Sample: L09090180-14 **File ID:** EL.091809.120548 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Arsenic	9.35	X	10	X	6.95	

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 100 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1488724
09/21/2009 09:32

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L09090180 **Worknum:** WG311853
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG311853-03 **File ID:** EL.091109.152228 **Dil:** 1 **Units:** ug/L
Sample ID: L09090180-19 **File ID:** EL.091109.151614 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	44.8		0.328	F	50	88.9	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1488725
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L09090180 **Worknum:** WG312285
Instrument ID: ELAN-ICP **Method:** 6020
Post Spike ID: WG312285-01 **File ID:** EL.091809.121204 **Dil:** 1 **Units:** ug/L
Sample ID: L09090180-14 **File ID:** EL.091809.120548 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ARSENIC	58.2		9.35		50	97.8	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1488725
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L09090180**	Workgroup (AAB#):	**WG311853**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG312001**	Initial Calibration Date:	**11-SEP-2009 13:44**

	WG312001-01		WG312001-02		WG312001-03		WG312001-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ARSENIC	0	-914	.4	275	50	135000	100	285000	.999556	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L09090180**	Workgroup (AAB#):	**WG312285**
Analytical Method:	**6020**	Instrument ID:	**ELAN-ICP**
ICAL Worknum:	**WG312466**	Initial Calibration Date:	**18-SEP-2009 10:27**

	WG312466-01		WG312466-02		WG312466-03		WG312466-04			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ARSENIC	0	-816	.4	303	50	118000	100	254000	.999994	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 1488734
Report generated: 21-SEP-2009 09:29

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-06
Instrument ID: ELAN-ICP Run Time: 13:56 Method: 6020
File ID: EL.091109.135650 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG311853 Cal ID: ELAN-ICP - 11-SEP-09
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.2	4	.2	U

ICB - Modified 07/14/2009
PDF File ID: 1488736
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-06
Instrument ID: ELAN-ICP Run Time: 10:40 Method: 6020
File ID: EL.091809.104007 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG312285 Cal ID: ELAN-ICP - 18-SEP-09
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.1875	.75	.1875	U

ICB - Modified 07/14/2009
PDF File ID: 1488736
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-12

Instrument ID: ELAN-ICP Run Time: 14:38 Method: 6020

File ID: EL.091109.143831 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG311853 Cal ID: ELAN-I - 11-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.200	4.00	0.200	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1488739

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-16

Instrument ID: ELAN-ICP Run Time: 15:56 Method: 6020

File ID: EL.091109.155608 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG311853 Cal ID: ELAN-I - 11-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.200	4.00	0.200	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1488739

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-12

Instrument ID: ELAN-ICP Run Time: 11:21 Method: 6020

File ID: EL.091809.112148 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.188	0.750	0.188	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1488739

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-14

Instrument ID: ELAN-ICP Run Time: 12:31 Method: 6020

File ID: EL.091809.123151 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.188	0.750	0.188	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1488739

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-18

Instrument ID: ELAN-ICP Run Time: 13:37 Method: 6020

File ID: EL.091809.133703 Analyst: JYH Units: ug/L

Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.188	0.750	0.188	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1488739

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-05
Instrument ID: ELAN-ICP Run Time: 13:49 Method: 6020
File ID: EL.091109.134955 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG311853 Cal ID: ELAN-I - 11-SEP-09
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	49.9	99.9	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1488735
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-05
Instrument ID: ELAN-ICP Run Time: 10:33 Method: 6020
File ID: EL.091809.103314 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		50	50.7	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1488735
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-11
Instrument ID: ELAN-ICP Run Time: 14:31 Method: 6020
File ID: EL.091109.143136 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG311853 Cal ID: ELAN-I - 11-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	51.5	ug/L	103	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1488738
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/11/2009 Sample ID: WG312001-15
Instrument ID: ELAN-ICP Run Time: 15:49 Method: 6020
File ID: EL.091109.154914 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG311853 Cal ID: ELAN-I - 11-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	50.6	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1488738
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-11
Instrument ID: ELAN-ICP Run Time: 11:14 Method: 6020
File ID: EL.091809.111454 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	50.2	ug/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1488738
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-13

Instrument ID: ELAN-ICP Run Time: 12:24 Method: 6020

File ID: EL.091809.122456 Analyst: JYH QC Key: DOWWV2006

Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	48.7	ug/L	97.3	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1488738

Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-17
Instrument ID: ELAN-ICP Run Time: 13:30 Method: 6020
File ID: EL.091809.133008 Analyst: JYH QC Key: DOWWV2006
Workgroup (AAB#): WG312285 Cal ID: ELAN-I - 18-SEP-09
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		50.0	50.4	ug/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1488738
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L09090180 **Workgroup (AAB#):** WG311853
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG312001-09 **File ID:** EL.091109.141743 **Units:** ug/L
Sol. AB : WG312001-10 **File ID:** EL.091109.142439 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.0324	NS	100	94.9	94.9	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

ICS - Modified 03/06/2008
PDF File ID: 1488737
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L09090180 **Workgroup (AAB#):** WG311853
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG312001-13 **File ID:** EL.091109.153520 **Units:** ug/L
Sol. AB : WG312001-14 **File ID:** EL.091109.154217 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	0.0487	NS	100	97.8	97.8	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

ICS - Modified 03/06/2008
PDF File ID: 1488737
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L09090180 **Workgroup (AAB#):** WG312285
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG312466-09 **File ID:** EL.091809.110100 **Units:** ug/L
Sol. AB : WG312466-10 **File ID:** EL.091809.110757 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	-0.0211	NS	100	92.6	92.6	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

ICS - Modified 03/06/2008
PDF File ID: 1488737
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L09090180 **Workgroup (AAB#):** WG312285
Instrument ID: ELAN-ICP **Method:** 6020
Sol. A : WG312466-15 **File ID:** EL.091809.131615 **Units:** ug/L
Sol. AB : WG312466-16 **File ID:** EL.091809.132311 **Matrix:** Soil

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	-0.0302	NS	100	94.9	94.9	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

Microbac Laboratories Inc.
CRI SAMPLE

Login Number: L09090180 Run Date: 09/18/2009 Sample ID: WG312466-07
Instrument ID: ELAN-ICP Run Time: 10:47 Prep Method: 3051
File ID: EL.091809.104703 Analyst: JYH Method: 6020
Workgroup (AAB#): WG312466 Matrix: Soil Units: ug/L
Contract #: Cal ID: ELAN-ICP-18-SEP-2009 10:27

Analytes	Expected	Found	% Rec	Limits	Q
Arsenic, Total	NS	-------	-------	------- - 150	NO LIM

CRI - Modified 03/06/2008
PDF File ID: 1488732
Report generated 09/21/2009 09:29

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L09090180 **Analytical Method:** 6020
Analytical Workgroup: WG311853 **Matrix:** 1
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 11-SEP-2009 13:26

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L09090180-19	SAMP	11-SEP-2009 15:16	113.094	102.319	101.992	101.839
WG311773-01	REF	11-SEP-2009 14:57	107.059	95.246	94.505	96.291
WG311773-04	BLANK	11-SEP-2009 14:45	100.218	92.897	96.656	94.979
WG311773-05	LCS	11-SEP-2009 14:51	104.178	91.119	93.737	93.517
WG311773-06	MS	11-SEP-2009 15:03	100.68	94.942	93.858	94.736
WG311773-07	MSD	11-SEP-2009 15:09	98.369	96.441	93.27	94.286
WG311853-03	PSPK	11-SEP-2009 15:22	111.67	103.781	102.72	102.532
WG311853-04	SERIAL	11-SEP-2009 15:28	101.752	98.758	100.095	98.744
WG312001-05	ICV	11-SEP-2009 13:49	100.764	101.565	101.148	97.36
WG312001-06	ICB	11-SEP-2009 13:56	100.721	101.011	101.833	98.716
WG312001-11	CCV	11-SEP-2009 14:31	98.663	85.543	91.522	91.997
WG312001-12	CCB	11-SEP-2009 14:38	104.123	92.137	96.186	95.319
WG312001-15	CCV	11-SEP-2009 15:49	96.974	83.667	89.552	89.578
WG312001-16	CCB	11-SEP-2009 15:56	101.779	88.378	92.912	94.828

Acceptance criteria: 30% - 120%
Underlined recoveries are out of range

INT_STD_ICPMS - Modified 03/05/2008
PDF File ID: 1488740
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.

INTERNAL STANDARD REPORT

Login: L09090180 **Analytical Method:** 6020
Analytical Workgroup: WG312285 **Matrix:** 7
Instrument: ELAN-ICP **Analyst:** JYH
ICAL Date: 18-SEP-2009 10:10

			BISMUTH	GERMANIUM	INDIUM	TERBIUM
Sample	Type	Run Date	% Rec	% Rec	% Rec	% Rec
L09090180-10	SAMP	18-SEP-2009 11:40	108.507	110.57	94.048	100.622
L09090180-11	SAMP	18-SEP-2009 11:47	102.813	110.541	94.193	101.464
L09090180-12	SAMP	18-SEP-2009 11:53	100.777	108.757	91.149	99.345
L09090180-13	SAMP	18-SEP-2009 11:59	102.256	106.961	93.573	100.756
L09090180-14	SAMP	18-SEP-2009 12:05	100.875	107.878	93.888	99.24
L09090180-15	SAMP	18-SEP-2009 12:38	104.801	112.147	95.263	101.753
L09090180-16	SAMP	18-SEP-2009 12:44	99.708	112.118	95.425	101.335
L09090180-17	SAMP	18-SEP-2009 12:50	99.242	110.892	94.771	99.579
L09090180-18	SAMP	18-SEP-2009 12:57	99.633	113.093	95.25	101.528
WG311999-01	REF	18-SEP-2009 11:40	108.507	110.57	94.048	100.622
WG311999-02	BLANK	18-SEP-2009 11:28	111.531	105.047	96.893	96.741
WG311999-03	LCS	18-SEP-2009 11:34	99.314	102.183	95.655	95.59
WG311999-04	MS	18-SEP-2009 11:47	102.813	110.541	94.193	101.464
WG311999-05	MSD	18-SEP-2009 11:53	100.777	108.757	91.149	99.345
WG312285-01	PSPK	18-SEP-2009 12:12	100.171	110.537	94.342	100.092
WG312285-02	SERIAL	18-SEP-2009 12:18	97.954	105.331	94.602	95.34
WG312466-05	ICV	18-SEP-2009 10:33	98.635	104.55	100.551	101.271
WG312466-06	ICB	18-SEP-2009 10:40	98.943	104.79	102.09	101.428
WG312466-11	CCV	18-SEP-2009 11:14	97.669	101.968	91.596	92.319
WG312466-12	CCB	18-SEP-2009 11:21	97.937	105.138	96.049	96.517
WG312466-13	CCV	18-SEP-2009 12:24	96.795	102.112	96.183	96.214
WG312466-14	CCB	18-SEP-2009 12:31	96.029	101.793	96.501	95.802
WG312466-17	CCV	18-SEP-2009 13:30	93.85	102.69	90.514	91.522
WG312466-18	CCB	18-SEP-2009 13:37	94.945	106.395	96.585	95.194

Acceptance criteria: 30% - 120%
Underlined recoveries are out of range

INT_STD_ICPMS - Modified 03/05/2008
PDF File ID: 1488740
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L09090180 **Date:** 06/08/2009
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1488731
Report generated: 09/21/2009 09:29

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L09090180 **Date:** 06/17/2009
Insturment ID: ELAN-ICP **Method:** 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Uranium	1.00	100.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 1488731
Report generated: 09/21/2009 09:29

2.1.2 Metals CVAA Data (Mercury)

2.1.2.1 Summary Data

Microbac Laboratories Inc.
METALS

Microbac Login No: L09090180

METHOD

Preparation: SW-846 7471A/7470A

Analysis: SW-846 7471A/7470A

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.

MS/MSD: WG312014(7471A) - Sample 01 was chosen by the client for MS/MSD analysis. Samples 02 (MS) and 03(MSD) yielded noncompliant recoveries for mercury.

Serial Dilution/Post Digestion Spike: WG312014(7471A) - All acceptance criteria were met.

WG312046(7470A) - 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 Microbac Laboratories Inc., 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: PDM

Approved: 22-SEP-09

LABORATORY REPORT

L09090180

09/22/09 10:13

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

P.O. Number: 935102

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0071-SS-083109	L09090180-01	7471A	1	03-SEP-09
0071-SS-083109-MS	L09090180-02	7471A	1	03-SEP-09
0071-SS-083109-MSD	L09090180-03	7471A	1	03-SEP-09
0071-SO-083109	L09090180-04	7471A	1	03-SEP-09
0071-SO-083109-FD	L09090180-05	7471A	1	03-SEP-09
0201-SS-083109	L09090180-06	7471A	1	03-SEP-09
0202-SS-083109	L09090180-07	7471A	1	03-SEP-09
0203-SS-083109	L09090180-08	7471A	1	03-SEP-09
0204-SS-083109	L09090180-09	7471A	1	03-SEP-09
EB01-083109	L09090180-19	7470A	1	03-SEP-09

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-01	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0071-SS-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 10:56
Collect Date:	08/31/2009 11:05	Dilution:	1	File ID:	HY.091409.105620
Sample Tag:	01	Units:	mg/kg	Percent Solid:	80.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.307	0.0123

U Not detected at or above the reporting limit (RL).

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number: **L09090180-02**
Client ID: **0071-SS-083109-MS**
Matrix: **Soil**
Workgroup Number: **WG312014**
Collect Date: **08/31/2009 11:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7471A**
Analytical Method: **7471A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/kg**

Instrument: **HYDRA**
Prep Date: **09/10/2009 07:23**
Cal Date: **09/14/2009 09:45**
Run Date: **09/14/2009 10:58**
File ID: **HY.091409.105815**
Percent Solid: **80.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.526		0.307	0.0123

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-03	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0071-SS-083109-MSD	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:00
Collect Date:	08/31/2009 11:05	Dilution:	1	File ID:	HY.091409.110002
Sample Tag:	01	Units:	mg/kg	Percent Solid:	80.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.591		0.307	0.0123

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-04	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0071-SO-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:01
Collect Date:	08/31/2009 11:15	Dilution:	1	File ID:	HY.091409.110147
Sample Tag:	01	Units:	mg/kg	Percent Solid:	89.3

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.279	0.0112

U Not detected at or above the reporting limit (RL).

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-05	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0071-SO-083109-FD	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:03
Collect Date:	08/31/2009 11:15	Dilution:	1	File ID:	HY.091409.110331
Sample Tag:	01	Units:	mg/kg	Percent Solid:	89.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.280	0.0112

U Not detected at or above the reporting limit (RL).

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-06	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0201-SS-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:07
Collect Date:	08/31/2009 11:25	Dilution:	1	File ID:	HY.091409.110736
Sample Tag:	01	Units:	mg/kg	Percent Solid:	86.8

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.665		0.282	0.0113

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-07	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0202-SS-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:09
Collect Date:	08/31/2009 11:35	Dilution:	1	File ID:	HY.091409.110931
Sample Tag:	01	Units:	mg/kg	Percent Solid:	96.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.241	0.00964

U Not detected at or above the reporting limit (RL).

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-08	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0203-SS-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:11
Collect Date:	08/31/2009 11:45	Dilution:	1	File ID:	HY.091409.111134
Sample Tag:	01	Units:	mg/kg	Percent Solid:	95.6

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.255	0.0102

U Not detected at or above the reporting limit (RL).

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-09	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	0204-SS-083109	Prep Method:	7471A	Prep Date:	09/10/2009 07:23
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	09/14/2009 09:45
Workgroup Number:	WG312014	Analyst:	PDM	Run Date:	09/14/2009 11:16
Collect Date:	08/31/2009 11:55	Dilution:	1	File ID:	HY.091409.111655
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.0

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6	0.280		0.278	0.0111

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-19	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	EB01-083109	Prep Method:	7470A	Prep Date:	09/11/2009 09:21
Matrix:	Water	Analytical Method:	7470A	Cal Date:	09/14/2009 13:32
Workgroup Number:	WG312046	Analyst:	PDM	Run Date:	09/14/2009 14:08
Collect Date:	08/31/2009 15:20	Dilution:	1	File ID:	HY.091409.140803
Sample Tag:	01	Units:	mg/L		

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above the reporting limit (RL).

2.1.2.2 QC Summary Data

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG311923
Analyst: REK
Spike Analyst: REK
Method: 7470A
Run Date: 09/11/2009 09:21
Hotblock Start Temp: 96 @ 09:15
Hotblock End Temp: 96.2 @ 11:15

SOP: ME404 Revison 12
Spike Solution: STD35208
Spike Witness: VC
Digest tubes Lot #: COA14115
H2SO4 Lot #: COA13254
HNO3 Lot #: COA14147
KMnO4 1:1 Lot #: RGT14157
K2S2O8 1:1 Lot #: RGT14227
Mercury Water ICV Lot #: STD35210
HG H2O STDS 10PPM Lot #: STD35216

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG311923-02	BLANK	1	40 mL	40 mL		
2	WG311859-01	FBLK	17	4 mL	40 mL		
3	WG311923-06	FLT_BLK	1	40 mL	40 mL		
4	WG311923-03	LCS	1	40 mL	40 mL	4 mL	
5	L09090169-03	SAMP	17	4 mL	40 mL		09/16/09
6	L09090169-04	SAMP	17	4 mL	40 mL		09/16/09
7	L09090169-05	SAMP	17	4 mL	40 mL		09/16/09
8	L09090180-19	SAMP	1	40 mL	40 mL		09/22/09
9	L09090194-01	SAMP	17	4 mL	40 mL		09/18/09
10	L09090194-02	SAMP	17	4 mL	40 mL		09/18/09
11	L09090194-03	SAMP	17	4 mL	40 mL		09/18/09
12	L09090195-01	SAMP	17	4 mL	40 mL		09/15/09
13	L09090195-03	SAMP	17	4 mL	40 mL		09/15/09
14	L09090195-05	SAMP	17	4 mL	40 mL		09/15/09
15	WG311923-01	REF	17	4 mL	40 mL		
16	L09090197-01	SAMP	17	4 mL	40 mL		09/23/09
17	L09090206-01	SAMP	1	40 mL	40 mL		09/15/09
18	L09090206-02	SAMP	1	40 mL	40 mL		09/15/09
19	WG311923-04	MS	1	4 mL	40 mL	4 mL	
20	WG311923-05	MSD	1	4 mL	40 mL	4 mL	

Analyst: _____

Reviewer: Brenda Gregory

BLOCK_DIG - Modified 07/22/2008
PDF ID: 1488143
Report generated: 09/11/2009 11:51

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG311782
Analyst: REK
Spike Analyst: REK
Method: 7471A
Run Date: 09/10/2009 07:23
Hotblock Start Temp: 93.8 @ 08:10
Hotblock End Temp: 93.7 @ 08:40

SOP: ME405 Revison 9
Spike Solution: STD35173
Spike Witness: VC
HNO3 Lot #: COA13945
Digest tubes Lot #: COA14115
HCL Lot #: COA14139
KMnO4 1:1 Lot #: RGT14157
HG SOIL STD 10PPM Lot #: STD35180
HG SOILS ICV Lot #: STD35181

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG311782-02	BLANK	7	.6 g	40 mL		
2	WG311782-03	LCS	7	.6 g	40 mL	4 mL	
3	L09090160-02	SAMP	7	.621 g	40 mL		09/18/09
4	L09090160-03	SAMP	7	.645 g	40 mL		09/18/09
5	L09090160-04	SAMP	7	.605 g	40 mL		09/18/09
6	L09090160-05	SAMP	7	.611 g	40 mL		09/18/09
7	L09090160-06	SAMP	7	.635 g	40 mL		09/18/09
8	L09090169-06	SAMP	10	.61 g	40 mL		09/16/09
9	L09090169-07	SAMP	10	.606 g	40 mL		09/16/09
10	WG311782-01	REF	7	.607 g	40 mL		
11	L09090180-01	RS01	7	.607 g	40 mL		09/22/09
12	WG311782-04	MS	7	.607 g	40 mL	4 mL	
13	L09090180-02	MS01	7	.607 g	40 mL	4 mL	09/22/09
14	WG311782-05	MSD	7	.607 g	40 mL	4 mL	
15	L09090180-03	SD01	7	.607 g	40 mL	4 mL	09/22/09
16	L09090180-04	SAMP	7	.602 g	40 mL		09/22/09
17	L09090180-05	SAMP	7	.602 g	40 mL		09/22/09
18	L09090180-06	SAMP	7	.613 g	40 mL		09/22/09
19	L09090180-07	SAMP	7	.643 g	40 mL		09/22/09
20	L09090180-08	SAMP	7	.615 g	40 mL		09/22/09
21	L09090180-09	SAMP	7	.635 g	40 mL		09/22/09

Analyst: _____

Reviewer: Brenda Gregory

BLOCK_DIG - Modified 07/22/2008
PDF ID: 1486076
Report generated: 09/10/2009 09:05

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 091409A.PRN
Analyst1: PDM Analyst2: N/A
Method: 7471A SOP: ME405 Rev: 9
Maintenance Log ID: 30138

Calibration Std: STD35180 ICV/CCV Std: STD35181 Post Spike: STD35180
ICSA: N/A ICSAB: N/A Int. Std:

Workgroups: 312013,312014

Comments: Sequences 28-32 had to be reanalyzed due to results that were outside of the liner range, the results were reported from the diluted analysis.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.091409.093506	WG312077-01	Calibration Point		1		09/14/09 09:35
2	HY.091409.093710	WG312077-02	Calibration Point		1		09/14/09 09:37
3	HY.091409.093852	WG312077-03	Calibration Point		1		09/14/09 09:38
4	HY.091409.094118	WG312077-04	Calibration Point		1		09/14/09 09:41
5	HY.091409.094304	WG312077-05	Calibration Point		1		09/14/09 09:43
6	HY.091409.094511	WG312077-06	Calibration Point		1		09/14/09 09:45
7	HY.091409.095302	WG312077-07	Initial Calibration Verification		1		09/14/09 09:53
8	HY.091409.095503	WG312077-08	Initial Calib Blank		1		09/14/09 09:55
9	HY.091409.095646	WG312077-09	CCV		1		09/14/09 09:56
10	HY.091409.095832	WG312077-10	CCB		1		09/14/09 09:58
11	HY.091409.100039	WG311774-01	Method/Prep Blank	.25/40	1		09/14/09 10:00
12	HY.091409.100302	WG311774-02	Laboratory Control S	.25/40	1		09/14/09 10:03
13	HY.091409.100456	WG311774-03	Laboratory Control S	.25/40	1		09/14/09 10:04
14	HY.091409.100747	L09090169-01	GT09023	.259/40	1		09/14/09 10:07
15	HY.091409.100929	WG312013-01	Post Digestion Spike		1	L09090169-01	09/14/09 10:09
16	HY.091409.101126	L09090169-02	GT09024	.251/40	1		09/14/09 10:11
17	HY.091409.101310	L09090195-04	GT090098	.265/40	1		09/14/09 10:13
18	HY.091409.101506	WG312013-02	Post Digestion Spike		1	L09090195-04	09/14/09 10:15
19	HY.091409.101742	L09090200-01	T/T T-12 POLYOL 24385	.297/40	1		09/14/09 10:17
20	HY.091409.101939	WG312013-03	Post Digestion Spike		1	L09090200-01	09/14/09 10:19
21	HY.091409.102202	WG312077-11	CCV		1		09/14/09 10:22
22	HY.091409.102345	WG312077-12	CCB		1		09/14/09 10:23
23	HY.091409.102634	L09090200-02	TT 1801 POLYOL 24386	.27/40	1		09/14/09 10:26
24	HY.091409.102818	WG312077-13	CCV		1		09/14/09 10:28
25	HY.091409.103005	WG312077-14	CCB		1		09/14/09 10:30
26	HY.091409.103200	WG311782-02	Method/Prep Blank	.6/40	1		09/14/09 10:32
27	HY.091409.103342	WG311782-03	Laboratory Control S	.6/40	1		09/14/09 10:33
28	HY.091409.103547	L09090160-02	G-31-MSS019 (3.0)		1		09/14/09 10:35
29	HY.091409.103804	L09090160-03	G-31-MSB02B (3.0)		1		09/14/09 10:38
30	HY.091409.103950	L09090160-04	G-31-MSS04A (2.75)		1		09/14/09 10:39
31	HY.091409.104146	L09090160-05	G-31-MSS020 (4.0)		1		09/14/09 10:41
32	HY.091409.104338	WG312014-01	Post Digestion Spike		1	L09090160-05	09/14/09 10:43
33	HY.091409.104521	L09090160-06	G-31-MSB01B (4.0)	.635/40	1		09/14/09 10:45
34	HY.091409.104725	L09090169-06	GT09028	.61/40	1		09/14/09 10:47
35	HY.091409.104914	WG312014-02	Post Digestion Spike		1	L09090169-06	09/14/09 10:49
36	HY.091409.105107	WG312077-15	CCV		1		09/14/09 10:51
37	HY.091409.105253	WG312077-16	CCB		1		09/14/09 10:52

Page: 1 Approved: September 15, 2009

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 091409A.PRN
Analyst1: PDM Analyst2: N/A
Method: 7471A SOP: ME405 Rev: 9
Maintenance Log ID: 30138

Calibration Std: STD35180 ICV/CCV Std: STD35181 Post Spike: STD35180
ICSA: N/A ICSAB: N/A Int. Std:

Workgroups: 312013,312014

Comments: Sequences 28-32 had to be reanalyzed due to results that were outside of the liner range, the results were reported from the diluted analysis.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	HY.091409.105437	L09090169-07	GT09029	.606/40	1		09/14/09 10:54
39	HY.091409.105620	L09090180-01	0071-SS-083109	.607/40	1		09/14/09 10:56
40	HY.091409.105815	WG311782-04	Matrix Spike	.607/40	1	L09090180-01	09/14/09 10:58
41	HY.091409.110002	WG311782-05	Matrix Spike Duplica	.607/40	1	L09090180-01	09/14/09 11:00
42	HY.091409.110147	L09090180-04	0071-SO-083109	.602/40	1		09/14/09 11:01
43	HY.091409.110331	L09090180-05	0071-SO-083109-FD	.602/40	1		09/14/09 11:03
44	HY.091409.110518	WG312014-03	Post Digestion Spike		1	L09090180-05	09/14/09 11:05
45	HY.091409.110736	L09090180-06	0201-SS-083109	.613/40	1		09/14/09 11:07
46	HY.091409.110931	L09090180-07	0202-SS-083109	.643/40	1		09/14/09 11:09
47	HY.091409.111134	L09090180-08	0203-SS-083109	.615/40	1		09/14/09 11:11
48	HY.091409.111327	WG312077-17	CCV		1		09/14/09 11:13
49	HY.091409.111510	WG312077-18	CCB		1		09/14/09 11:15
50	HY.091409.111655	L09090180-09	0204-SS-083109	.635/40	1		09/14/09 11:16
51	HY.091409.112020	WG312077-19	CCV		1		09/14/09 11:20
52	HY.091409.112213	WG312077-20	CCB		1		09/14/09 11:22
53	HY.091409.113703	L09090160-02	G-31-MSS019 (3.0)	.621/40	5		09/14/09 11:37
54	HY.091409.113849	WG312014-05	Post Digestion Spike		5	L09090160-02	09/14/09 11:38
55	HY.091409.114044	L09090160-03	G-31-MSB02B (3.0)	.645/40	5		09/14/09 11:40
56	HY.091409.114227	WG312014-06	Post Digestion Spike		5	L09090160-03	09/14/09 11:42
57	HY.091409.114416	L09090160-04	G-31-MSS04A (2.75)		10		09/14/09 11:44
58	HY.091409.114718	WG312077-21	CCV		1		09/14/09 11:47
59	HY.091409.114911	WG312077-22	CCB		1		09/14/09 11:49
60	HY.091409.115133	L09090160-05	G-31-MSS020 (4.0)	.611/40	1		09/14/09 11:51
61	HY.091409.115329	WG312014-01	Post Digestion Spike		1	L09090160-05	09/14/09 11:53
62	HY.091409.115524	L09090160-04	G-31-MSS04A (2.75)	.605/40	25		09/14/09 11:55
63	HY.091409.120646	WG312077-23	CCV		1		09/14/09 12:06
64	HY.091409.120829	WG312077-24	CCB		1		09/14/09 12:08
65	HY.091409.121301	WG312014-04	Serial Dilution		5	L09090160-05	09/14/09 12:13
66	HY.091409.121448	WG312077-25	CCV		1		09/14/09 12:14
67	HY.091409.121631	WG312077-26	CCB		1		09/14/09 12:16

Comments

Seq.	Rerun	Dil.	Reason	Analytes
54	No results reported this post spike did not need to be analyzed.			
56	No results reported this post spike did not need to be analyzed.			

Page: 2 Approved: September 15, 2009

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 091409A.PRN
Analyst1: PDM Analyst2: N/A
Method: 7471A SOP: ME405 Rev: 9
Maintenance Log ID: 30138

Calibration Std: STD35180 ICV/CCV Std: STD35181 Post Spike: STD35180
ICSA: N/A ICSAB: N/A Int. Std:

Workgroups: 312013,312014

Comments: Sequences 28-32 had to be reanalyzed due to results that were outside of the liner range, the results were reported from the diluted analysis.

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time

Seq.	Rerun	Dil.	Reason	Analytes
57	X	25		

  Approved: September 15, 2009

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 091409C.PRN
Analyst1: PDM Analyst2: N/A
Method: 7470A SOP: ME404 Rev: 11
Maintenance Log ID: 30138

Calibration Std: STD35216 ICV/CCV Std: STD35210 Post Spike: STD35216
ICSA: N/A ICSAB: N/A Int. Std:

Workgroups: 312046

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.091409.132357	WG312095-01	Calibration Point		1		09/14/09 13:23
2	HY.091409.132541	WG312095-02	Calibration Point		1		09/14/09 13:25
3	HY.091409.132725	WG312095-03	Calibration Point		1		09/14/09 13:27
4	HY.091409.132907	WG312095-04	Calibration Point		1		09/14/09 13:29
5	HY.091409.133105	WG312095-05	Calibration Point		1		09/14/09 13:31
6	HY.091409.133248	WG312095-06	Calibration Point		1		09/14/09 13:32
7	HY.091409.133433	WG312095-07	Initial Calibration Verification		1		09/14/09 13:34
8	HY.091409.133618	WG312095-08	Initial Calib Blank		1		09/14/09 13:36
9	HY.091409.133801	WG312095-09	CCV		1		09/14/09 13:38
10	HY.091409.133943	WG312095-10	CCB		1		09/14/09 13:39
11	HY.091409.134338	WG312046-08	Louisville Chem Requ		1		09/14/09 13:43
12	HY.091409.134530	WG311923-02	Method/Prep Blank	40/40	1		09/14/09 13:45
13	HY.091409.134713	WG311923-03	Laboratory Control S	40/40	1		09/14/09 13:47
14	HY.091409.134905	WG311859-01	Fluid Blank		1		09/14/09 13:49
15	HY.091409.135046	WG311923-06	Filter Blank		1		09/14/09 13:50
16	HY.091409.135250	L09090169-03	GT09025	4/40	1		09/14/09 13:52
17	HY.091409.135433	WG312046-01	Post Digestion Spike		1	L09090169-03	09/14/09 13:54
18	HY.091409.135849	WG312046-01	Post Digestion Spike		1	L09090169-03	09/14/09 13:58
19	HY.091409.140032	L09090169-04	GT09026	4/40	1		09/14/09 14:00
20	HY.091409.140214	L09090169-05	GT09027	4/40	1		09/14/09 14:02
21	HY.091409.140426	WG312095-11	CCV		1		09/14/09 14:04
22	HY.091409.140619	WG312095-12	CCB		1		09/14/09 14:06
23	HY.091409.140803	L09090180-19	EB01-083109	40/40	1		09/14/09 14:08
24	HY.091409.141000	WG312046-02	Post Digestion Spike		1	L09090180-19	09/14/09 14:10
25	HY.091409.141147	L09090194-01	MCL-DRUM-1	4/40	1		09/14/09 14:11
26	HY.091409.141343	L09090194-02	MCL-DRUM-2-3	4/40	1		09/14/09 14:13
27	HY.091409.141524	L09090194-03	MCL-MW4R-PURGE WATE	4/40	1		09/14/09 14:15
28	HY.091409.141706	L09090195-01	GT090095	4/40	1		09/14/09 14:17
29	HY.091409.141852	L09090195-03	GT090097	4/40	1		09/14/09 14:18
30	HY.091409.142049	L09090195-05	GT090099	4/40	1		09/14/09 14:20
31	HY.091409.142236	L09090197-01	DOW-SOLIDWASTE-090409	4/40	1	WG311923-01	09/14/09 14:22
32	HY.091409.142419	WG311923-04	Matrix Spike	4/40	1	L09090197-01	09/14/09 14:24
33	HY.091409.142602	WG312095-13	CCV		1		09/14/09 14:26
34	HY.091409.142756	WG312095-14	CCB		1		09/14/09 14:27
35	HY.091409.142950	WG311923-05	Matrix Spike Duplica	4/40	1	L09090197-01	09/14/09 14:29
36	HY.091409.143134	L09090206-01	01SYS-EFFF-090909	40/40	1		09/14/09 14:31
37	HY.091409.143317	L09090206-02	01SYS-EFFF-090909	40/40	1		09/14/09 14:33

Page: 1 Approved: September 15, 2009

Maren Berry

Microbac®

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 091409C.PRN
Analyst1: PDM Analyst2: N/A
Method: 7470A SOP: ME404 Rev: 11
Maintenance Log ID: 30138

Calibration Std: STD35216 ICV/CCV Std: STD35210 Post Spike: STD35216
ICSA: N/A ICSAB: N/A Int. Std:

Workgroups: 312046

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	HY.091409.143501	WG312095-15	CCV		1		09/14/09 14:35
39	HY.091409.143643	WG312095-16	CCB		1		09/14/09 14:36
40	HY.091409.150201	WG312095-17	CCV		1		09/14/09 15:02
41	HY.091409.150343	WG312095-18	CCB		1		09/14/09 15:03
42	HY.091409.150525	WG312046-03	Post Digestion Spike		1	L09090169-04	09/14/09 15:05
43	HY.091409.150707	WG312046-04	Post Digestion Spike		1	L09090169-05	09/14/09 15:07
44	HY.091409.150854	WG312046-05	Post Digestion Spike		1	L09090194-01	09/14/09 15:08
45	HY.091409.151037	WG312046-06	Post Digestion Spike		1	L09090195-01	09/14/09 15:10
46	HY.091409.151230	WG312046-07	Post Digestion Spike		1	L09090197-01	09/14/09 15:12
47	HY.091409.151416	WG312095-19	CCV		1		09/14/09 15:14
48	HY.091409.151622	WG312095-20	CCB		1		09/14/09 15:16

Comments

Seq.	Rerun	Dil.	Reason	Analytes
17			Due to marginal failure the post spike was reanalyzed to rule out analyst error.	

  Approved: September 15, 2009

Maren Berry

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Microbac Laboratories Inc.

Data Checklist

Date: 14-SEP-2009
Analyst: PDM
Analyst: NA
Method: 7471A
Instrument: HYDRA
Curve Workgroup: 312077
Runlog ID: 30110
Analytical Workgroups: 312013,312014

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0169,0195,0200,0180,0160
Client Forms	X
Level X	
Level 3	0180
Level 4	0160
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
14-SEP-2009
Pierce Morris

Secondary Reviewer:
15-SEP-2009
Maren Berry

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-15-2009 19:34:05

Microbac Laboratories Inc.

Data Checklist

Date: 14-SEP-2009
Analyst: PDM
Analyst: NA
Method: 7470A
Instrument: HYDRA
Curve Workgroup: 312095
Runlog ID: 30115
Analytical Workgroups: 3312046

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0169,0195,0194,0180,0206
Client Forms	X
Level X	
Level 3	0194,0180
Level 4	0206
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
14-SEP-2009
Pierce Morris

Secondary Reviewer:
15-SEP-2009
Maren Berry

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-15-2009 11:53:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7471A AAB#: WG312014

Login Number: L09090180

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
0071-SS-083109	01	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0071-SS-083109-MS	02	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0071-SS-083109-MSD	03	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0071-SO-083109	04	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0071-SO-083109-FD	05	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0201-SS-083109	06	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0202-SS-083109	07	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0203-SS-083109	08	08/31/09					09/10/09	9.8	28		09/14/09	14	28	
0204-SS-083109	09	08/31/09					09/10/09	9.8	28		09/14/09	14	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1489196
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7470A AAB#: WG312046

Login Number: L09090180

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
EB01-083109	19	08/31/09					09/11/09	10.8	28		09/14/09	14	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 1489196
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09090180
Work Group: WG312014
Blank File ID: HY.091409.103200
Blank Sample ID: WG311782-02
Prep Date: 09/10/09 07:23
Instrument ID: HYDRA
Analyzed Date: 09/14/09 10:32
Method: 7471A
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG311782-03	HY.091409.103342	09/14/09 10:33	01
0071-SS-083109	L09090180-01	HY.091409.105620	09/14/09 10:56	01
0071-SS-083109-MS	L09090180-02	HY.091409.105815	09/14/09 10:58	01
0071-SS-083109-MSD	L09090180-03	HY.091409.110002	09/14/09 11:00	01
0071-SO-083109	L09090180-04	HY.091409.110147	09/14/09 11:01	01
0071-SO-083109-FD	L09090180-05	HY.091409.110331	09/14/09 11:03	01
0201-SS-083109	L09090180-06	HY.091409.110736	09/14/09 11:07	01
0202-SS-083109	L09090180-07	HY.091409.110931	09/14/09 11:09	01
0203-SS-083109	L09090180-08	HY.091409.111134	09/14/09 11:11	01
0204-SS-083109	L09090180-09	HY.091409.111655	09/14/09 11:16	01

Report Name: BLANK_SUMMARY
PDF File ID: 1489197
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09090180
Work Group: WG312046
Blank File ID: HY.091409.134530
Blank Sample ID: WG311923-02
Prep Date: 09/11/09 09:21
Instrument ID: HYDRA
Analyzed Date: 09/14/09 13:45
Method: 7470A
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG311923-03	HY.091409.134713	09/14/09 13:47	01
FLT_BLK	WG311923-06	HY.091409.135046	09/14/09 13:50	01
EB01-083109	L09090180-19	HY.091409.140803	09/14/09 14:08	01

Report Name: BLANK_SUMMARY
PDF File ID: 1489197
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09090180 Prep Date: 09/10/09 07:23 Sample ID: WG311782-02
Instrument ID: HYDRA Run Date: 09/14/09 10:32 Prep Method: 7471A
File ID: HY.091409.103200 Analyst: PDM Method: 7471A
Workgroup (AAB#): WG312014 Matrix: Soil Units: mg/kg
Contract #: Cal ID: HYDRA-14-SEP-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0100	0.250	0.250	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1489198
14-SEP-2009 15:43

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09090180 Prep Date: 09/11/09 09:21 Sample ID: WG311923-02
Instrument ID: HYDRA Run Date: 09/14/09 13:45 Prep Method: 7470A
File ID: HY.091409.134530 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG312046 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-14-SEP-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000200	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1489198
14-SEP-2009 15:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG311782-03
Instrument ID: HYDRA Run Time: 10:33 Prep Method: 7471A
File ID: HY.091409.103342 Analyst: PDM Method: 7471A
Workgroup (AAB#): WG312014 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD35173 Cal ID: HYDRA-14-SEP-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Total	0.267	0.293	110	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1489244
Report generated: 09/14/2009 15:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG311923-03
Instrument ID: HYDRA Run Time: 13:47 Prep Method: 7470A
File ID: HY.091409.134713 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG312046 Matrix: Water Units: mg/L
QC Key: DOWWV2006 Lot#: STD35208 Cal ID: HYDRA-14-SEP-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00405	101	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 1489244
Report generated: 09/14/2009 15:43

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L09090180 Cal ID: HYDRA- 14-SEP-09 Worknum: WG312014

Instrument ID: HYDRA Contract #: Prep Method: 7471A

Parent ID: L09090180-01 File ID: HY.091409.105620 Dil: 1 Method: 7471A

Sample ID: L09090180-02 MS File ID: HY.091409.105815 Dil: 1 Matrix: Soil

Sample ID: L09090180-03 MSD File ID: HY.091409.110002 Dil: 1 Units: mg/kg

Percent Solid: 80.4

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury, Total	U	0.328	0.526	161	0.328	0.591	180	11.6	75 - 125	25	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 09/13/2009

PDF File ID: 1489200

Report generated 09/14/2009 13:53

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum: L09090180 Cal ID: HYDRA- Worknum: WG312046

Instrument ID: HYDRA Contract #: Method: 7470A

Parent ID: WG311923-01 File ID: HY.091409.142236 Dil: 1 Matrix: WATER

Sample ID: WG311923-04 MS File ID: HY.091409.142419 Dil: 1 Units: mg/L

Sample ID: WG311923-05 MSD File ID: HY.091409.142950 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.0400	0.0398	99.5	0.0400	0.0405	101	1.74	85 - 115	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 03/07/2008

PDF File ID: 1489201

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L09090180 **Worknum:** WG312014
Instrument ID: HYDRA **Method:** 7471A
Post Spike ID: WG312014-03 **File ID:** HY.091409.110518 **Dil:** 1 **Units:** ug/L
Sample ID: L09090180-05 **File ID:** HY.091409.110331 **Dil:** 1 **Matrix:** Soil

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	1.72	F	0.648	F	1	113.7	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1489195
Report generated: 09/14/2009 15:46

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L09090180 **Worknum:** WG312046
Instrument ID: HYDRA **Method:** 7470A
Post Spike ID: WG312046-02 **File ID:** HY.091409.141000 **Dil:** 1 **Units:** ug/L
Sample ID: L09090180-19 **File ID:** HY.091409.140803 **Dil:** 1 **Matrix:** Water

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	0.959		0	U	1	95.9	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 1489195
Report generated: 09/14/2009 15:46

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L09090180
Analytical Method: 7471A
ICAL Worknum: WG312077

Workgroup (AAB#): WG312014
Instrument ID: HYDRA
Initial Calibration Date: 09/14/2009 09:45

Analyte	WG312077-01		WG312077-02		WG312077-03		WG312077-04		WG312077-05		WG312077-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	270	0.200	790	1.00	3407	2.00	6596	5.00	16734	10.0	33464

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1489202
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L09090180
Analytical Method: 7471A
ICAL Worknum: WG312077

Workgroup (AAB#): WG312014
Instrument ID: HYDRA
Initial Calibration Date: 09/14/2009 09:45

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1489202
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L09090180
Analytical Method: 7470A
ICAL Worknum: WG312095

Workgroup (AAB#): WG312046
Instrument ID: HYDRA
Initial Calibration Date: 09/14/2009 13:32

Analyte	WG312095-01		WG312095-02		WG312095-03		WG312095-04		WG312095-05		WG312095-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	-13	0.200	829	1.00	3273	2.00	6622	5.00	16880	10.0	34342

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1489202
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L09090180
Analytical Method: 7470A
ICAL Worknum: WG312095

Workgroup (AAB#): WG312046
Instrument ID: HYDRA
Initial Calibration Date: 09/14/2009 13:32

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 1489202
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-08
Instrument ID: HYDRA Run Time: 09:55 Method: 7471A
File ID: HY.091409.095503 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09
Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.15	3.75	.15	U

ICB - Modified 07/14/2009
PDF File ID: 1489204
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-08
Instrument ID: HYDRA Run Time: 13:36 Method: 7470A
File ID: HY.091409.133618 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

ICB - Modified 07/14/2009
PDF File ID: 1489204
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-10

Instrument ID: HYDRA Run Time: 09:58 Method: 7471A

File ID: HY.091409.095832 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L09090180	Run Date:	09/14/2009	Sample ID:	WG312077-14
Instrument ID:	HYDRA	Run Time:	10:30	Method:	7471A
File ID:	HY.091409.103005	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG312014	Cal ID:	HYDRA - 14-SEP-09		
Matrix:	SOIL				

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-16

Instrument ID: HYDRA Run Time: 10:52 Method: 7471A

File ID: HY.091409.105253 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-18

Instrument ID: HYDRA Run Time: 11:15 Method: 7471A

File ID: HY.091409.111510 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L09090180	Run Date:	09/14/2009	Sample ID:	WG312077-20
Instrument ID:	HYDRA	Run Time:	11:22	Method:	7471A
File ID:	HY.091409.112213	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG312014	Cal ID:	HYDRA - 14-SEP-09		
Matrix:	SOIL				

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 1489206
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-22

Instrument ID: HYDRA Run Time: 11:49 Method: 7471A

File ID: HY.091409.114911 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-24

Instrument ID: HYDRA Run Time: 12:08 Method: 7471A

File ID: HY.091409.120829 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-26

Instrument ID: HYDRA Run Time: 12:16 Method: 7471A

File ID: HY.091409.121631 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.150	3.75	0.150	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-10

Instrument ID: HYDRA Run Time: 13:39 Method: 7470A

File ID: HY.091409.133943 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-12

Instrument ID: HYDRA Run Time: 14:06 Method: 7470A

File ID: HY.091409.140619 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-14

Instrument ID: HYDRA Run Time: 14:27 Method: 7470A

File ID: HY.091409.142756 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-16

Instrument ID: HYDRA Run Time: 14:36 Method: 7470A

File ID: HY.091409.143643 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-18

Instrument ID: HYDRA Run Time: 15:03 Method: 7470A

File ID: HY.091409.150343 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-20

Instrument ID: HYDRA Run Time: 15:16 Method: 7470A

File ID: HY.091409.151622 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09

Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than RL.

* = Result is above RL.

CCB - Modified 03/05/2008

PDF File ID: 1489206

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-07
Instrument ID: HYDRA Run Time: 09:53 Method: 7471A
File ID: HY.091409.095302 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.02	101	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1489203
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-07
Instrument ID: HYDRA Run Time: 13:34 Method: 7470A
File ID: HY.091409.133433 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
QC Key: DOWWV2006

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.07	104	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 1489203
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-09

Instrument ID: HYDRA Run Time: 09:56 Method: 7471A

File ID: HY.091409.095646 Analyst: PDM QC Key: DOWWV2006

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00202	mg/L	101	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1489205

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-13

Instrument ID: HYDRA Run Time: 10:28 Method: 7471A

File ID: HY.091409.102818 Analyst: PDM QC Key: DOWWV2006

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00211	mg/L	106	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1489205

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-15
Instrument ID: HYDRA Run Time: 10:51 Method: 7471A
File ID: HY.091409.105107 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00204	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-17

Instrument ID: HYDRA Run Time: 11:13 Method: 7471A

File ID: HY.091409.111327 Analyst: PDM QC Key: DOWWV2006

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00213	mg/L	107	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1489205

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-19

Instrument ID: HYDRA Run Time: 11:20 Method: 7471A

File ID: HY.091409.112020 Analyst: PDM QC Key: DOWWV2006

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00213	mg/L	107	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1489205

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-21
Instrument ID: HYDRA Run Time: 11:47 Method: 7471A
File ID: HY.091409.114718 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00211	mg/L	106	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-23
Instrument ID: HYDRA Run Time: 12:06 Method: 7471A
File ID: HY.091409.120646 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09
Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00207	mg/L	104	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312077-25

Instrument ID: HYDRA Run Time: 12:14 Method: 7471A

File ID: HY.091409.121448 Analyst: PDM QC Key: DOWWV2006

Workgroup (AAB#): WG312014 Cal ID: HYDRA - 14-SEP-09

Matrix: SOIL

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00207	mg/L	104	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 1489205

Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-09
Instrument ID: HYDRA Run Time: 13:38 Method: 7470A
File ID: HY.091409.133801 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00201	mg/L	101	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-11
Instrument ID: HYDRA Run Time: 14:04 Method: 7470A
File ID: HY.091409.140426 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00198	mg/L	99.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-13
Instrument ID: HYDRA Run Time: 14:26 Method: 7470A
File ID: HY.091409.142602 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00198	mg/L	99.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-15
Instrument ID: HYDRA Run Time: 14:35 Method: 7470A
File ID: HY.091409.143501 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00200	mg/L	100	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-17
Instrument ID: HYDRA Run Time: 15:02 Method: 7470A
File ID: HY.091409.150201 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00202	mg/L	101	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L09090180 Run Date: 09/14/2009 Sample ID: WG312095-19
Instrument ID: HYDRA Run Time: 15:14 Method: 7470A
File ID: HY.091409.151416 Analyst: PDM QC Key: DOWWV2006
Workgroup (AAB#): WG312046 Cal ID: HYDRA - 14-SEP-09
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00205	mg/L	103	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 1489205
Report generated 09/14/2009 15:43

2.2 General Chemistry Data

2.2.1 Percent Solids Data

2.2.1.1 Raw Data

LABORATORY REPORT

L09090180

09/22/09 10:13

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

P.O. Number: 935102

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
0071-SS-083109	L09090180-01	D2216-90	1	03-SEP-09
0071-SS-083109-MS	L09090180-02	D2216-90	1	03-SEP-09
0071-SS-083109-MSD	L09090180-03	D2216-90	1	03-SEP-09
0071-SO-083109	L09090180-04	D2216-90	1	03-SEP-09
0071-SO-083109-FD	L09090180-05	D2216-90	1	03-SEP-09
0201-SS-083109	L09090180-06	D2216-90	1	03-SEP-09
0202-SS-083109	L09090180-07	D2216-90	1	03-SEP-09
0203-SS-083109	L09090180-08	D2216-90	1	03-SEP-09
0204-SS-083109	L09090180-09	D2216-90	1	03-SEP-09
SS4-SS-083109	L09090180-10	D2216-90	1	03-SEP-09
SS4-SS-083109-MS	L09090180-11	D2216-90	1	03-SEP-09
SS4-SS-083109-MSD	L09090180-12	D2216-90	1	03-SEP-09
SS4-SO-083109	L09090180-13	D2216-90	1	03-SEP-09
SS4-SO-083109-FD	L09090180-14	D2216-90	1	03-SEP-09
0205-SS-083109	L09090180-15	D2216-90	1	03-SEP-09
0206-SS-083109	L09090180-16	D2216-90	1	03-SEP-09
0207-SS-083109	L09090180-17	D2216-90	1	03-SEP-09
0208-SS-083109	L09090180-18	D2216-90	1	03-SEP-09

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-01	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0071-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:05	Dilution:	1	File ID:	B1.311794-0101
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	80.4		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-02	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0071-SS-083109-MS	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:05	Dilution:	1	File ID:	B1.311794-0102
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	80.4		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0071-SS-083109-MSD	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:05	Dilution:	1	File ID:	B1.311794-0103
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	80.4		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0071-SO-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:15	Dilution:	1	File ID:	B1.311794-0104
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.3		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0071-SO-083109-FD	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:15	Dilution:	1	File ID:	B1.311794-0105
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.0		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-06	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0201-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:25	Dilution:	1	File ID:	B1.311794-0106
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	86.8		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-07	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0202-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:35	Dilution:	1	File ID:	B1.311794-0107
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	96.7		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-08	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0203-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:45	Dilution:	1	File ID:	B1.311794-0108
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	95.6		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-09	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0204-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 11:55	Dilution:	1	File ID:	B1.311794-0109
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	85.0		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-10	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SS4-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:20	Dilution:	1	File ID:	B1.311794-0110
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.0		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-11	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SS4-SS-083109-MS	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:20	Dilution:	1	File ID:	B1.311794-0111
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.0		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number: **L09090180-12**
Client ID: **SS4-SS-083109-MSD**
Matrix: **Soil**
Workgroup Number: **WG311794**
Collect Date: **08/31/2009 14:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **CPD**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **09/11/2009 08:48**
Cal Date:
Run Date: **09/11/2009 08:48**
File ID: **B1.311794-0112**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	**10-02-6**	**91.0**		**1.00**	**1.00**

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-13	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SS4-SO-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:30	Dilution:	1	File ID:	B1.311794-0113
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	87.4		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-14	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	SS4-SO-083109-FD	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:30	Dilution:	1	File ID:	B1.311794-0114
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	85.1		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-15	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0205-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:40	Dilution:	1	File ID:	B1.311794-0115
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.6		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-16	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0206-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:50	Dilution:	1	File ID:	B1.311794-0116
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.7		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-17	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0207-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 14:55	Dilution:	1	File ID:	B1.311794-0117
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.2		1.00	1.00

Report Number: **L09090180**
Report Date : **September 22, 2009**

Sample Number:	L09090180-18	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	0208-SS-083109	Prep Method:	D2216-90	Prep Date:	09/11/2009 08:48
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG311794	Analyst:	CPD	Run Date:	09/11/2009 08:48
Collect Date:	08/31/2009 15:00	Dilution:	1	File ID:	B1.311794-0118
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.6		1.00	1.00

Example Percent Solids Calculations

1.0 Calculating the percent solids of a sample.

$$\%Solids = \frac{WT3 - WT1}{WT2 - WT1} \times F$$

Where:	
WT1 = Weight, in grams, of the empty container	1.30 g
WT2 = Weight, in grams, of the container and wet sample	21.274 g
WT3 = Weight, in grams, of the container and dried sample	5.21 g
F = Factor to get units as percent weight	100
%Solids = Percent solids present in sample.	19.58%

2.0 Calculating the percent moisture of a sample.

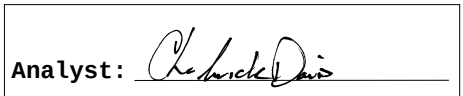
% Moisture = 100 - % Solids from 1.0 calculation

Microbac Laboratories Inc.

PERCENT SOLIDS

Workgroup (AAB#):WG311794 Analyst:CPD ADT(on):09/10/2009 08:55
Method:D2216-90 Instrument:BAL001 ADT(off):09/11/2009 08:48
SOP:K0003 Rev:9

SAMPLE NUMBER	EMPTY PAN WT 1	WET WT 2	DRY WT 3A	DRY WT 3B	DRY WT 3C	PERCENT SOLID	PERCENT MOISTURE
L09090129-01	1.28	30.84	22.4			71.45	
L09090160-02	1.29	35.91	22.72			61.90	
L09090160-03	1.27	28.36	22.5			78.37	
L09090160-04	1.27	24.29	14.02			55.39	
L09090160-05	1.28	28.34	16.11			54.80	
L09090160-06	1.27	17.88	5.97			28.30	
L09090180-01	1.27	23.97	19.53			80.44	
L09090180-02	1.27	23.97	19.53			80.44	
L09090180-03	1.27	23.97	19.53			80.44	
L09090180-04	1.27	30.73	27.58			89.31	
L09090180-05	1.28	33.59	30.02			88.95	
L09090180-06	1.28	23.17	20.28			86.80	
L09090180-07	1.28	48.66	47.12			96.75	
L09090180-08	1.29	26.37	25.26			95.57	
L09090180-09	1.28	32.24	27.6			85.01	
L09090180-10	1.28	33.04	30.17			90.96	
L09090180-11	1.28	33.04	30.17			90.96	
L09090180-12	1.28	33.04	30.17			90.96	
L09090180-13	1.28	30.9	27.17			87.41	
L09090180-14	1.27	32.21	27.59			85.07	
L09090180-15	1.29	25.98	24.16			92.63	
L09090180-16	1.28	37.46	34.46			91.71	
L09090180-17	1.27	35.93	33.24			92.24	
L09090180-18	1.27	38.01	34.91			91.56	
WG311794-01	1.27	30.73	27.58			89.31	10.69
WG311794-02	1.28	48.66	47.12			96.75	3.250
WG311794-03	1.26	26.94	24.23			89.45	10.55
WG311794-04	1.28	31.17	30.15			96.59	3.413

Analyst: 

PERCENT_SOLIDS - Modified 04/24/2008
PDF ID: 1486164
Report generated: 09/11/2009 08:52

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
September 22, 2009

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	AJM – ANTHONY J. MOSSBURG
ALB – ANNIE L. BROWN	AML – ANTHONY M. LONG	BLG – BRENDA L. GREENWALT
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS
CAH – CHARLES A. HALL	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ	DEV – DAVID E. VANDENBERG
DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER
DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH	DR – DEANNA ROBERTS
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKT – JANE K. THOMPSON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES	JYH – JI Y. HU
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON
LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON
MDC – MICHAEL D. COCHRAN	MES – MARY E. SCHILLING	MMB – MAREN M. BEERY
MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON	NPM – NATHANIEL P. MILLER
PDM – PIERCE D. MORRIS	RAH – ROY A. HALSTEAD	RB – ROBERT BUCHANAN
REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL
SDH – SHANA D. HINYARD	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WTD – WADE T. DELONG	

Microbac Laboratories Inc.
List of Valid Qualifiers
September 22, 2009

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit (RL).

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 14505

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Paul Weber

Contact Phone #: 919-875-4311

Turn Around Requirements: Standard

Location: Tech Park

Project ID: Po# 935463

Sampler (print): Patrick Kish

Signature:

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	Arsenic	Mercury	TOTAL # (LAB USE)
0071-SS-083109/MS/MSD			8/31/09	1105	S	3			X	
0071-SD-083109/FD				1115		2			X	
0201-SS-083109				1125		1			X	
0202-SS-083109				1135		1			X	
0203-SS-083109				1145		1			X	
0204-SS-083109				1155		1				
SS4-SS-083109/MS/MSD				1420		3				
SS4-SD-083109/FD				1430		2				
0205-SS-083109				1440		1				
0206-SS-083109				1450		1				
0207-SS-083109				1455		1				
0208-SS-083109				1500		1				
EB01-083109				1520	W	1		X	X	

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

ADDITIONAL REQUIREMENTS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/3/09	0730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9-3-09	1125	

Microbac OVD
Received: 09/03/2009 11:47
By: JANE THOMPSON

Relinquished by: 221000001522

Date	Time	Received by: (Signature)
9-3-09	1000	

Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

COC No. A 14505

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

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

Company Name: CH2M Hill

Project Contact: Paul Weber | Contact Phone #: 919-875-4311

Turn Around Requirements: Standard | Location: Tech Park

Project ID: Port 336463

Sampler (print): Patrick Kirby | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

ADDITIONAL REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	Arsenic	Mercury	TOTAL # (LAB USE)
SS01-SS-083109/MS		MS/MSD	8/31/09	1105	S	3			X	
SS01-SD-083109/FD		FD		1115		2			X	
SS01-SS-083109				1125		1			X	
SS02-SS-083109				1135		1			X	
SS03-SS-083109				1145		1			X	
SS04-SS-083109				1155		1			X	
SS44-SS-083109/MS		MS/MSD		1420		3		X		
SS44-SD-083109/FD		FD		1430		2		X		
SS05-SS-083109				1440		1		X		
SS06-SS-083109				1450		1		X		
SS07-SS-083109				1455		1		X		
SS08-SS-083109				1500		1		X		
EB01-083109				1520	W	1		X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9/3/09	0730	Microbac OVD Received: 09/03/2009 11:47 By: JANE THOMPSON
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	9-3-09	1125	

Relinquished by: 221000001522

e-mailed Copy 9/9/09 RLK

Date	Time	Received by: (Signature)
9-3-09	1000	

Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

1000001522

COOLER INSPECTION

Received: 09/03/2009 11:47
Delivery Method: Courier
Opened By: Jane Thompson
Comments:

Login(s): L09090180

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0013388	G	3.0		COC14505	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	No	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were correct perservatives used? (water only)
9	Yes	Were pH ranges acceptable? (voa's excluded)
10	NA	Were VOA samples free of headspace (<6mm)?
11	Yes	Were samples received within EPA hold times?

Discrepancies:

5	7 samples on chain not marked for products. Rec'd jars same as other samples.	

Look closer. Go further. Do more.

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-01	613744	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-02	613745	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-03	613746	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-04	613747	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-05	613748	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-06	613749	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-07	613750	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-08	613751	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-09	613752	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Samplenum	Container ID	Products
L09090180-10	613753	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-11	613754	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-12	613755	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-13	613756	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-14	613757	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-15	613758	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:31	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-16	613759	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:20	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:32	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-17	613760	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:21	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:32	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09090180
Account: 2736
Project: 2736.042
Samples: 19
Due Date: 22-SEP-2009

Samplenum	Container ID	Products
L09090180-18	613761	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	WET	09-SEP-2009 12:50	RLK	
2	STORE	WET	A2	11-SEP-2009 08:21	RLK	CPD
3	PREP	W1	DIG	14-SEP-2009 07:32	REK	RLK
4	STORE	DIG	W1	14-SEP-2009 12:11	RLK	REK
5	ANALYZ*	DIG	METALS	16-SEP-2009 13:51	JYH	REK
6	STORE	W1	A2	17-SEP-2009 08:50	RLK	RLK

Sample extract/digestate

Samplenum	Container ID	Products
L09090180-19	613762	AS-MS HG

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	DIG	09-SEP-2009 12:50	RLK	
2	STORE	DIG	A2	11-SEP-2009 13:39	RLK	REK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • http://www.microbac.com

Laboratory Report Number: L09110114

Client: Paul Weber, CH2MHILL, Raleigh, NC, 27604

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	*Team Chemist/Data Specialist*	kalbertson@microbac.com
Stephanie Mossburg	*Team Chemist/Data Specialist*	smossburg@microbac.com
Tony Long	*Team Chemist/Data Specialist*	tlong@microbac.com
Amanda Fickiesen	*Client Services Specialist*	afickiesen@microbac.com
Annie Brown	*Client Services Specialist*	abrown@microbac.com

This report was reviewed on November 24, 2009.

Kathy Albertson - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on November 24, 2009.

David Vandenberg - Managing Director

State of origin: West Virginia
Accrediting authority: Department of Environmental Protection ID:361
QAPP: DOW-WVO
This report contains a total of 163 pages.

Look closer. Go further. Do more.

Microbac

Microbac Laboratories, Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800.373.4071
Fax: 740.373.4835

Your data is now available online via our Web Access Portal!

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View a demo by visiting www.microbac.com and entering the Ohio Valley location
Click on "Online Data Access"
User ID: jdoe@abc.com
Password: demo

Contact your Microbac service representative to set up a *FREE* account today!

LOOK CLOSER, GO FURTHER, DO MORE.

Microbac REPORT L09110114
PREPARED FOR CH2MHILL, Inc
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L09110114

CHAIN OF CUSTODY: The chain of custody number was 13155.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 3 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

L09110114-01	TEST PIT5-WS-110409
L09110114-02	TEST PIT5-SO-110409
L09110114-03	TEST PIT6-WS-110409
L09110114-04	TEST PIT6-SO-110409
L09110114-05	TEST PIT8-WS-110409
L09110114-06	TEST PIT8-SO-110409
L09110114-07	TB01-110409

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., 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: KRA

Approved: 06-NOV-09
Kathy Albertson

2.0 Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Loginnum: L09110114

Department: Volatiles

Analyst: Mary Schilling

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Samples were collected via 5035 preserved by freezing. Sample preparation proceeded normally.

CALIBRATION

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

Alternate Source Standards: All analytes met the ICV acceptance criteria, except those listed below.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
WG316150-12	HPMS9	11/02/2009	VINYL ACETATE	REG		(-)28.2	*	25

Continuing Calibration and Tune: All analytes met the CCV acceptance criteria for % drift, except those listed below.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
WG316825-02	HPMS9	11/07/2009	VINYL ACETATE	REG		(-)23.2	*	20
WG316886-02	HPMS9	11/09/2009	VINYL ACETATE	REG		(-)20.6	*	20

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All analytes met the LCS acceptance criteria for % recovery and relative percent difference, except those listed below. An astrisk (*) denotes that the value is relative percent difference.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
WG316861-02	HPMS8	11/09/2009	VINYL ACETATE	REG		136	65	130

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met, except for the following analytes:

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
L09110114-01	HPMS9	11/07/2009	1,4-DICHLOROBENZENE-D4	ISTD		108000	165023.0	660092.0
L09110114-01	HPMS9	11/09/2009	1,4-DICHLOROBENZENE-D4	ISTD		112000	165023.0	660092.0

Reanalysis of sample 01 confirmed the outlier.

Surrogates: All surrogate compounds met the acceptance criteria for % recovery, except for the following samples.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
L09110114-01	HPMS9	11/07/2009	P-BROMOFLUOROBENZENE	SURR		142	59	113
L09110114-01	HPMS9	11/09/2009	P-BROMOFLUOROBENZENE	SURR		147	59	113

Reanalysis of sample 01 confirmed the outlier.

Other: Vinyl acetate was not detected above the RL in the SDG.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

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

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	8260B	1	05-NOV-09
TEST PIT5-WS-110409	L09110114-01	8260B	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	8260B	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	8260B	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	8260B	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	8260B	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	8260B	1	05-NOV-09
TB01-110409	L09110114-07	8260B	1	05-NOV-09

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-01**
Client ID: **TEST PIT5-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316826**
Collect Date: **11/04/2009 09:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C/5035A**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/06/2009 09:56**
Cal Date: **11/02/2009 20:52**
Run Date: **11/07/2009 21:27**
File ID: **9M73434**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.85	0.585
1,1,2,2-Tetrachloroethane	79-34-5		U	5.85	0.585
1,1,2-Trichloroethane	79-00-5		U	5.85	0.585
1,1-Dichloroethane	75-34-3		U	5.85	1.17
1,1-Dichloroethene	75-35-4		U	5.85	0.585
1,2,4-Trichlorobenzene	120-82-1		U	5.85	0.585
1,2-Dichlorobenzene	95-50-1		U	5.85	0.585
1,2-Dichloroethane	107-06-2		U	5.85	0.585
1,2-Dichloropropane	78-87-5		U	5.85	0.585
1,3-Dichlorobenzene	541-73-1		U	5.85	0.585
1,4-Dichlorobenzene	106-46-7		U	5.85	0.585
1,4-Dioxane	123-91-1		U	1990	58.5
2-Butanone	78-93-3		U	29.3	2.93
2-Hexanone	591-78-6		U	11.7	2.93
4-Methyl-2-pentanone	108-10-1		U	11.7	2.93
Acetone	67-64-1		U	117	5.85
Acrylonitrile	107-13-1		U	117	2.93
Benzene	71-43-2		U	5.85	0.585
Bromodichloromethane	75-27-4		U	5.85	0.585
Bromoform	75-25-2		U	5.85	0.585
Bromomethane	74-83-9		U	11.7	1.17
Carbon disulfide	75-15-0		U	5.85	0.585
Carbon tetrachloride	56-23-5		U	5.85	0.585
Chlorobenzene	108-90-7		U	5.85	0.585
Dibromochloromethane	124-48-1		U	5.85	0.585
Chloroethane	75-00-3		U	11.7	1.17
Chloroform	67-66-3		U	5.85	0.585
Chloromethane	74-87-3		U	11.7	2.34
cis-1,2-Dichloroethene	156-59-2		U	5.85	0.585
cis-1,3-Dichloropropene	10061-01-5		U	5.85	0.585
Ethylbenzene	100-41-4		U	5.85	0.585
Methylene chloride	75-09-2		U	5.85	1.17
Methyltert-butyl ether	1634-04-4		U	11.7	0.585
Styrene	100-42-5		U	5.85	0.585
Tetrachloroethene	127-18-4		U	5.85	0.585
Toluene	108-88-3		U	5.85	0.585
trans-1,2-Dichloroethene	156-60-5		U	5.85	0.585
trans-1,3-Dichloropropene	10061-02-6		U	5.85	0.585
Trichloroethene	79-01-6		U	5.85	0.585
Vinyl acetate	108-05-4		U	11.7	1.17
Vinyl chloride	75-01-4		U	11.7	1.17
Xylenes	1330-20-7		U	11.7	0.585

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	97.0	70	121	
4-Bromofluorobenzene	142	59	113	*
Dibromofluoromethane	104	65	135	
Toluene-d8	125	86	138	

* Surrogate or spike compound out of range
U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-01**
Client ID: **TEST PIT5-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316889**
Collect Date: **11/04/2009 09:45**
Sample Tag: **A1**

PrePrep Method: **NONE**
Prep Method: **5030C**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/09/2009 10:08**
Cal Date: **11/02/2009 20:52**
Run Date: **11/09/2009 18:09**
File ID: **9M73462**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	5.78	0.578
1,1,2,2-Tetrachloroethane	79-34-5		U	5.78	0.578
1,1,2-Trichloroethane	79-00-5		U	5.78	0.578
1,1-Dichloroethane	75-34-3		U	5.78	1.16
1,1-Dichloroethene	75-35-4		U	5.78	0.578
1,2,4-Trichlorobenzene	120-82-1		U	5.78	0.578
1,2-Dichlorobenzene	95-50-1		U	5.78	0.578
1,2-Dichloroethane	107-06-2		U	5.78	0.578
1,2-Dichloropropane	78-87-5		U	5.78	0.578
1,3-Dichlorobenzene	541-73-1		U	5.78	0.578
1,4-Dichlorobenzene	106-46-7		U	5.78	0.578
1,4-Dioxane	123-91-1		U	1970	57.8
2-Butanone	78-93-3		U	28.9	2.89
2-Hexanone	591-78-6		U	11.6	2.89
4-Methyl-2-pentanone	108-10-1		U	11.6	2.89
Acetone	67-64-1		U	116	5.78
Acrylonitrile	107-13-1		U	116	2.89
Benzene	71-43-2		U	5.78	0.578
Bromodichloromethane	75-27-4		U	5.78	0.578
Bromoform	75-25-2		U	5.78	0.578
Bromomethane	74-83-9		U	11.6	1.16
Carbon disulfide	75-15-0		U	5.78	0.578
Carbon tetrachloride	56-23-5		U	5.78	0.578
Chlorobenzene	108-90-7		U	5.78	0.578
Dibromochloromethane	124-48-1		U	5.78	0.578
Chloroethane	75-00-3		U	11.6	1.16
Chloroform	67-66-3		U	5.78	0.578
Chloromethane	74-87-3		U	11.6	2.31
cis-1,2-Dichloroethene	156-59-2		U	5.78	0.578
cis-1,3-Dichloropropene	10061-01-5		U	5.78	0.578
Ethylbenzene	100-41-4		U	5.78	0.578
Methylene chloride	75-09-2		U	5.78	1.16
Methyltert-butyl ether	1634-04-4		U	11.6	0.578
Styrene	100-42-5		U	5.78	0.578
Tetrachloroethene	127-18-4		U	5.78	0.578
Toluene	108-88-3		U	5.78	0.578
trans-1,2-Dichloroethene	156-60-5		U	5.78	0.578
trans-1,3-Dichloropropene	10061-02-6		U	5.78	0.578
Trichloroethene	79-01-6		U	5.78	0.578
Vinyl acetate	108-05-4		U	11.6	1.16
Vinyl chloride	75-01-4		U	11.6	1.16
Xylenes	1330-20-7		U	11.6	0.578

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	97.6	70	121	
4-Bromofluorobenzene	147	59	113	*
Dibromofluoromethane	104	65	135	
Toluene-d8	128	86	138	

* Surrogate or spike compound out of range
U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-02**
Client ID: **TEST PIT5-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316826**
Collect Date: **11/04/2009 09:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C/5035A**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/05/2009 16:25**
Cal Date: **11/02/2009 20:52**
Run Date: **11/07/2009 19:51**
File ID: **9M73431**
Percent Solid: **83.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.82	0.482
1,1,2,2-Tetrachloroethane	79-34-5		U	4.82	0.482
1,1,2-Trichloroethane	79-00-5		U	4.82	0.482
1,1-Dichloroethane	75-34-3		U	4.82	0.964
1,1-Dichloroethene	75-35-4		U	4.82	0.482
1,2,4-Trichlorobenzene	120-82-1		U	4.82	0.482
1,2-Dichlorobenzene	95-50-1		U	4.82	0.482
1,2-Dichloroethane	107-06-2		U	4.82	0.482
1,2-Dichloropropane	78-87-5		U	4.82	0.482
1,3-Dichlorobenzene	541-73-1		U	4.82	0.482
1,4-Dichlorobenzene	106-46-7		U	4.82	0.482
1,4-Dioxane	123-91-1		U	1640	48.2
2-Butanone	78-93-3		U	24.1	2.41
2-Hexanone	591-78-6		U	9.64	2.41
4-Methyl-2-pentanone	108-10-1		U	9.64	2.41
Acetone	67-64-1		U	96.4	4.82
Acrylonitrile	107-13-1		U	96.4	2.41
Benzene	71-43-2		U	4.82	0.482
Bromodichloromethane	75-27-4		U	4.82	0.482
Bromoform	75-25-2		U	4.82	0.482
Bromomethane	74-83-9		U	9.64	0.964
Carbon disulfide	75-15-0		U	4.82	0.482
Carbon tetrachloride	56-23-5		U	4.82	0.482
Chlorobenzene	108-90-7		U	4.82	0.482
Dibromochloromethane	124-48-1		U	4.82	0.482
Chloroethane	75-00-3		U	9.64	0.964
Chloroform	67-66-3		U	4.82	0.482
Chloromethane	74-87-3		U	9.64	1.93
cis-1,2-Dichloroethene	156-59-2		U	4.82	0.482
cis-1,3-Dichloropropene	10061-01-5		U	4.82	0.482
Ethylbenzene	100-41-4		U	4.82	0.482
Methylene chloride	75-09-2		U	4.82	0.964
Methyltert-butyl ether	1634-04-4		U	9.64	0.482
Styrene	100-42-5		U	4.82	0.482
Tetrachloroethene	127-18-4		U	4.82	0.482
Toluene	108-88-3		U	4.82	0.482
trans-1,2-Dichloroethene	156-60-5		U	4.82	0.482
trans-1,3-Dichloropropene	10061-02-6		U	4.82	0.482
Trichloroethene	79-01-6		U	4.82	0.482
Vinyl acetate	108-05-4		U	9.64	0.964
Vinyl chloride	75-01-4		U	9.64	0.964
Xylenes	1330-20-7		U	9.64	0.482

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	95.3	70	121	
4-Bromofluorobenzene	111	59	113	
Dibromofluoromethane	100	65	135	
Toluene-d8	104	86	138	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-03**
Client ID: **TEST PIT6-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316826**
Collect Date: **11/04/2009 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C/5035A**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/06/2009 09:57**
Cal Date: **11/02/2009 20:52**
Run Date: **11/07/2009 21:58**
File ID: **9M73435**
Percent Solid: **78.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	6.95	0.695
1,1,2,2-Tetrachloroethane	79-34-5		U	6.95	0.695
1,1,2-Trichloroethane	79-00-5		U	6.95	0.695
1,1-Dichloroethane	75-34-3		U	6.95	1.39
1,1-Dichloroethene	75-35-4		U	6.95	0.695
1,2,4-Trichlorobenzene	120-82-1		U	6.95	0.695
1,2-Dichlorobenzene	95-50-1		U	6.95	0.695
1,2-Dichloroethane	107-06-2		U	6.95	0.695
1,2-Dichloropropane	78-87-5		U	6.95	0.695
1,3-Dichlorobenzene	541-73-1		U	6.95	0.695
1,4-Dichlorobenzene	106-46-7		U	6.95	0.695
1,4-Dioxane	123-91-1		U	2360	69.5
2-Butanone	78-93-3		U	34.8	3.48
2-Hexanone	591-78-6		U	13.9	3.48
4-Methyl-2-pentanone	108-10-1		U	13.9	3.48
Acetone	67-64-1		U	139	6.95
Acrylonitrile	107-13-1		U	139	3.48
Benzene	71-43-2		U	6.95	0.695
Bromodichloromethane	75-27-4		U	6.95	0.695
Bromoform	75-25-2		U	6.95	0.695
Bromomethane	74-83-9		U	13.9	1.39
Carbon disulfide	75-15-0		U	6.95	0.695
Carbon tetrachloride	56-23-5		U	6.95	0.695
Chlorobenzene	108-90-7		U	6.95	0.695
Dibromochloromethane	124-48-1		U	6.95	0.695
Chloroethane	75-00-3		U	13.9	1.39
Chloroform	67-66-3		U	6.95	0.695
Chloromethane	74-87-3		U	13.9	2.78
cis-1,2-Dichloroethene	156-59-2		U	6.95	0.695
cis-1,3-Dichloropropene	10061-01-5		U	6.95	0.695
Ethylbenzene	100-41-4		U	6.95	0.695
Methylene chloride	75-09-2		U	6.95	1.39
Methyltert-butyl ether	1634-04-4		U	13.9	0.695
Styrene	100-42-5		U	6.95	0.695
Tetrachloroethene	127-18-4		U	6.95	0.695
Toluene	108-88-3		U	6.95	0.695
trans-1,2-Dichloroethene	156-60-5		U	6.95	0.695
trans-1,3-Dichloropropene	10061-02-6		U	6.95	0.695
Trichloroethene	79-01-6		U	6.95	0.695
Vinyl acetate	108-05-4		U	13.9	1.39
Vinyl chloride	75-01-4		U	13.9	1.39
Xylenes	1330-20-7		U	13.9	0.695

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	90.6	70	121	
4-Bromofluorobenzene	109	59	113	
Dibromofluoromethane	95.3	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-04**
Client ID: **TEST PIT6-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316826**
Collect Date: **11/04/2009 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C/5035A**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/05/2009 16:27**
Cal Date: **11/02/2009 20:52**
Run Date: **11/07/2009 20:23**
File ID: **9M73432**
Percent Solid: **85.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.94	0.494
1,1,2,2-Tetrachloroethane	79-34-5		U	4.94	0.494
1,1,2-Trichloroethane	79-00-5		U	4.94	0.494
1,1-Dichloroethane	75-34-3		U	4.94	0.987
1,1-Dichloroethene	75-35-4		U	4.94	0.494
1,2,4-Trichlorobenzene	120-82-1		U	4.94	0.494
1,2-Dichlorobenzene	95-50-1		U	4.94	0.494
1,2-Dichloroethane	107-06-2		U	4.94	0.494
1,2-Dichloropropane	78-87-5		U	4.94	0.494
1,3-Dichlorobenzene	541-73-1		U	4.94	0.494
1,4-Dichlorobenzene	106-46-7		U	4.94	0.494
1,4-Dioxane	123-91-1		U	1680	49.4
2-Butanone	78-93-3		U	24.7	2.47
2-Hexanone	591-78-6		U	9.87	2.47
4-Methyl-2-pentanone	108-10-1		U	9.87	2.47
Acetone	67-64-1		U	98.7	4.94
Acrylonitrile	107-13-1		U	98.7	2.47
Benzene	71-43-2		U	4.94	0.494
Bromodichloromethane	75-27-4		U	4.94	0.494
Bromoform	75-25-2		U	4.94	0.494
Bromomethane	74-83-9		U	9.87	0.987
Carbon disulfide	75-15-0		U	4.94	0.494
Carbon tetrachloride	56-23-5		U	4.94	0.494
Chlorobenzene	108-90-7		U	4.94	0.494
Dibromochloromethane	124-48-1		U	4.94	0.494
Chloroethane	75-00-3		U	9.87	0.987
Chloroform	67-66-3		U	4.94	0.494
Chloromethane	74-87-3		U	9.87	1.97
cis-1,2-Dichloroethene	156-59-2		U	4.94	0.494
cis-1,3-Dichloropropene	10061-01-5		U	4.94	0.494
Ethylbenzene	100-41-4		U	4.94	0.494
Methylene chloride	75-09-2		U	4.94	0.987
Methyltert-butyl ether	1634-04-4		U	9.87	0.494
Styrene	100-42-5		U	4.94	0.494
Tetrachloroethene	127-18-4		U	4.94	0.494
Toluene	108-88-3		U	4.94	0.494
trans-1,2-Dichloroethene	156-60-5		U	4.94	0.494
trans-1,3-Dichloropropene	10061-02-6		U	4.94	0.494
Trichloroethene	79-01-6		U	4.94	0.494
Vinyl acetate	108-05-4		U	9.87	0.987
Vinyl chloride	75-01-4		U	9.87	0.987
Xylenes	1330-20-7		U	9.87	0.494

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	97.4	70	121	
4-Bromofluorobenzene	111	59	113	
Dibromofluoromethane	100	65	135	
Toluene-d8	105	86	138	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-05**
Client ID: **TEST PIT8-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316889**
Collect Date: **11/04/2009 15:40**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **5030C**
Analytical Method: **8260B**
Analyst: **TMB**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/09/2009 10:09**
Cal Date: **11/02/2009 20:52**
Run Date: **11/09/2009 18:40**
File ID: **9M73463**
Percent Solid: **88.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	6.11	0.611
1,1,2,2-Tetrachloroethane	79-34-5		U	6.11	0.611
1,1,2-Trichloroethane	79-00-5		U	6.11	0.611
1,1-Dichloroethane	75-34-3		U	6.11	1.22
1,1-Dichloroethene	75-35-4		U	6.11	0.611
1,2,4-Trichlorobenzene	120-82-1		U	6.11	0.611
1,2-Dichlorobenzene	95-50-1		U	6.11	0.611
1,2-Dichloroethane	107-06-2		U	6.11	0.611
1,2-Dichloropropane	78-87-5		U	6.11	0.611
1,3-Dichlorobenzene	541-73-1		U	6.11	0.611
1,4-Dichlorobenzene	106-46-7		U	6.11	0.611
1,4-Dioxane	123-91-1		U	2080	61.1
2-Butanone	78-93-3		U	30.5	3.05
2-Hexanone	591-78-6		U	12.2	3.05
4-Methyl-2-pentanone	108-10-1		U	12.2	3.05
Acetone	67-64-1		U	122	6.11
Acrylonitrile	107-13-1		U	122	3.05
Benzene	71-43-2		U	6.11	0.611
Bromodichloromethane	75-27-4		U	6.11	0.611
Bromoform	75-25-2		U	6.11	0.611
Bromomethane	74-83-9		U	12.2	1.22
Carbon disulfide	75-15-0		U	6.11	0.611
Carbon tetrachloride	56-23-5		U	6.11	0.611
Chlorobenzene	108-90-7		U	6.11	0.611
Dibromochloromethane	124-48-1		U	6.11	0.611
Chloroethane	75-00-3		U	12.2	1.22
Chloroform	67-66-3		U	6.11	0.611
Chloromethane	74-87-3		U	12.2	2.44
cis-1,2-Dichloroethene	156-59-2		U	6.11	0.611
cis-1,3-Dichloropropene	10061-01-5		U	6.11	0.611
Ethylbenzene	100-41-4		U	6.11	0.611
Methylene chloride	75-09-2		U	6.11	1.22
Methyltert-butyl ether	1634-04-4		U	12.2	0.611
Styrene	100-42-5		U	6.11	0.611
Tetrachloroethene	127-18-4		U	6.11	0.611
Toluene	108-88-3		U	6.11	0.611
trans-1,2-Dichloroethene	156-60-5		U	6.11	0.611
trans-1,3-Dichloropropene	10061-02-6		U	6.11	0.611
Trichloroethene	79-01-6		U	6.11	0.611
Vinyl acetate	108-05-4		U	12.2	1.22
Vinyl chloride	75-01-4		U	12.2	1.22
Xylenes	1330-20-7		U	12.2	0.611

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	99.8	70	121	
4-Bromofluorobenzene	112	59	113	
Dibromofluoromethane	100	65	135	
Toluene-d8	106	86	138	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-06**
Client ID: **TEST PIT8-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316826**
Collect Date: **11/04/2009 15:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C/5035A**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS9**
Prep Date: **11/05/2009 16:28**
Cal Date: **11/02/2009 20:52**
Run Date: **11/07/2009 20:55**
File ID: **9M73433**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	4.62	0.462
1,1,2,2-Tetrachloroethane	79-34-5		U	4.62	0.462
1,1,2-Trichloroethane	79-00-5		U	4.62	0.462
1,1-Dichloroethane	75-34-3		U	4.62	0.924
1,1-Dichloroethene	75-35-4		U	4.62	0.462
1,2,4-Trichlorobenzene	120-82-1		U	4.62	0.462
1,2-Dichlorobenzene	95-50-1		U	4.62	0.462
1,2-Dichloroethane	107-06-2		U	4.62	0.462
1,2-Dichloropropane	78-87-5		U	4.62	0.462
1,3-Dichlorobenzene	541-73-1		U	4.62	0.462
1,4-Dichlorobenzene	106-46-7		U	4.62	0.462
1,4-Dioxane	123-91-1		U	1570	46.2
2-Butanone	78-93-3		U	23.1	2.31
2-Hexanone	591-78-6		U	9.24	2.31
4-Methyl-2-pentanone	108-10-1		U	9.24	2.31
Acetone	67-64-1		U	92.4	4.62
Acrylonitrile	107-13-1		U	92.4	2.31
Benzene	71-43-2		U	4.62	0.462
Bromodichloromethane	75-27-4		U	4.62	0.462
Bromoform	75-25-2		U	4.62	0.462
Bromomethane	74-83-9		U	9.24	0.924
Carbon disulfide	75-15-0		U	4.62	0.462
Carbon tetrachloride	56-23-5		U	4.62	0.462
Chlorobenzene	108-90-7		U	4.62	0.462
Dibromochloromethane	124-48-1		U	4.62	0.462
Chloroethane	75-00-3		U	9.24	0.924
Chloroform	67-66-3		U	4.62	0.462
Chloromethane	74-87-3		U	9.24	1.85
cis-1,2-Dichloroethene	156-59-2		U	4.62	0.462
cis-1,3-Dichloropropene	10061-01-5		U	4.62	0.462
Ethylbenzene	100-41-4		U	4.62	0.462
Methylene chloride	75-09-2		U	4.62	0.924
Methyltert-butyl ether	1634-04-4		U	9.24	0.462
Styrene	100-42-5		U	4.62	0.462
Tetrachloroethene	127-18-4		U	4.62	0.462
Toluene	108-88-3		U	4.62	0.462
trans-1,2-Dichloroethene	156-60-5		U	4.62	0.462
trans-1,3-Dichloropropene	10061-02-6		U	4.62	0.462
Trichloroethene	79-01-6		U	4.62	0.462
Vinyl acetate	108-05-4		U	9.24	0.924
Vinyl chloride	75-01-4		U	9.24	0.924
Xylenes	1330-20-7		U	9.24	0.462

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	98.0	70	121	
4-Bromofluorobenzene	107	59	113	
Dibromofluoromethane	99.3	65	135	
Toluene-d8	103	86	138	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-07**
Client ID: **TB01-110409**
Matrix: **Water**
Workgroup Number: **WG316861**
Collect Date: **11/04/2009 09:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030C**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/09/2009 11:58**
Cal Date: **10/08/2009 17:12**
Run Date: **11/09/2009 11:58**
File ID: **8M357816**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
1,4-Dioxane	123-91-1		U	100	50.0
2-Butanone	78-93-3		U	10.0	2.50
2-Hexanone	591-78-6		U	5.00	2.50
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	25.0	2.50
Acrylonitrile	107-13-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Dibromochloromethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Methylene chloride	75-09-2		U	5.00	0.250
Methyltert-butyl ether	1634-04-4		U	5.00	0.500
Styrene	100-42-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
1,2-Dichloroethane-d4	94.4	76	114	
4-Bromofluorobenzene	90.7	86	115	
Dibromofluoromethane	106	85	115	
Toluene-d8	97.6	88	110	

U Not detected at or above the reporting limit (RL).

2.1.1.2 QC Summary Data

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L09110114	Work Group:	WG316861
Blank File ID:	8M357814	Blank Sample ID:	WG316861-01
Prep Date:	11/09/09 10:53	Instrument ID:	HPMS8
Analyzed Date:	11/09/09 10:53	Method:	8260B
Analyst:	MES		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316861-02	8M357815	11/09/09 11:26	01
TB01-110409	L09110114-07	8M357816	11/09/09 11:58	01
LCS	WG316861-07	8M357818	11/09/09 13:02	01

Report Name: BLANK_SUMMARY
PDF File ID: 1536097
Report generated 11/11/2009 13:40

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316826
Blank File ID: 9M73419
Blank Sample ID: WG316826-01
Prep Date: 11/07/09 13:35
Instrument ID: HPMS9
Analyzed Date: 11/07/09 13:35
Method: 8260B
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316826-02	9M73420	11/07/09 14:06	01
LCS2	WG316826-03	9M73421	11/07/09 14:38	01
TEST PIT5-SO-110409	L09110114-02	9M73431	11/07/09 19:51	01
TEST PIT6-SO-110409	L09110114-04	9M73432	11/07/09 20:23	01
TEST PIT8-SO-110409	L09110114-06	9M73433	11/07/09 20:55	01
TEST PIT5-WS-110409	L09110114-01	9M73434	11/07/09 21:27	01
TEST PIT6-WS-110409	L09110114-03	9M73435	11/07/09 21:58	01

Report Name: BLANK_SUMMARY
PDF File ID: 1536097
Report generated 11/11/2009 13:40

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316889
Blank File ID: 9M73451
Blank Sample ID: WG316889-01
Prep Date: 11/09/09 12:29
Instrument ID: HPMS9
Analyzed Date: 11/09/09 12:29
Method: 8260B
Analyst: TMB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316889-02	9M73452	11/09/09 13:01	01
LCS2	WG316889-03	9M73453	11/09/09 13:31	01
TEST PIT5-WS-110409	L09110114-01	9M73462	11/09/09 18:09	A1
TEST PIT8-WS-110409	L09110114-05	9M73463	11/09/09 18:40	02

Report Name: BLANK_SUMMARY
PDF File ID: 1536097
Report generated 11/11/2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 10:53 Sample ID: WG316861-01
Instrument ID: HPMS8 Run Date: 11/09/09 10:53 Prep Method: 5030C
File ID: 8M357814 Analyst: MES Method: 8260B
Workgroup (AAB#): WG316861 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-08-OCT-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.250	1.00	1.00	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	1.00	1	U
1,1,2-Trichloroethane	0.250	1.00	1.00	1	U
1,1-Dichloroethane	0.125	1.00	1.00	1	U
1,1-Dichloroethene	0.500	1.00	1.00	1	U
1,2,4-Trichlorobenzene	0.200	1.00	1.00	1	U
1,2-Dichlorobenzene	0.125	1.00	1.00	1	U
1,2-Dichloroethane	0.250	1.00	1.00	1	U
1,2-Dichloropropane	0.200	1.00	1.00	1	U
1,3-Dichlorobenzene	0.250	1.00	1.00	1	U
1,4-Dichlorobenzene	0.125	1.00	1.00	1	U
1,4-Dioxane	50.0	100	100	1	U
2-Butanone	2.50	10.0	10.0	1	U
2-Hexanone	2.50	5.00	5.00	1	U
4-Methyl-2-pentanone	2.50	5.00	5.00	1	U
Acetone	2.50	25.0	25.0	1	U
Acrylonitrile	2.50	10.0	10.0	1	U
Benzene	0.125	1.00	1.00	1	U
Bromodichloromethane	0.250	1.00	1.00	1	U
Bromoform	0.500	1.00	1.00	1	U
Bromomethane	0.500	1.00	1.00	1	U
Carbon disulfide	0.500	1.00	1.00	1	U
Carbon tetrachloride	0.250	1.00	1.00	1	U
Chlorobenzene	0.125	1.00	1.00	1	U
Dibromochloromethane	0.250	1.00	1.00	1	U
Chloroethane	0.500	1.00	1.00	1	U
Chloroform	0.125	1.00	1.00	1	U
Chloromethane	0.250	1.00	1.00	1	U
cis-1,2-Dichloroethene	0.250	1.00	1.00	1	U
cis-1,3-Dichloropropene	0.250	1.00	1.00	1	U
Ethylbenzene	0.250	1.00	1.00	1	U
Methylene chloride	0.250	5.00	5.00	1	U
Methyltert-butyl ether	0.500	5.00	5.00	1	U
Styrene	0.125	1.00	1.00	1	U
Tetrachloroethene	0.250	1.00	1.00	1	U
Toluene	0.250	1.00	1.00	1	U
trans-1,2-Dichloroethene	0.250	1.00	1.00	1	U
trans-1,3-Dichloropropene	0.500	1.00	1.00	1	U
Trichloroethene	0.250	1.00	1.00	1	U
Vinyl acetate	2.50	10.0	10.0	1	U
Vinyl chloride	0.250	1.00	1.00	1	U
Xylenes	0.500	5.00	5.00	1	U

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 10:53 Sample ID: WG316861-01
Instrument ID: HPMS8 Run Date: 11/09/09 10:53 Prep Method: 5030C
File ID: 8M357814 Analyst: MES Method: 8260B
Workgroup (AAB#): WG316861 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-08-OCT-09

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	97.1	76 - 114	PASS
4-Bromofluorobenzene	90.6	86 - 115	PASS
Dibromofluoromethane	106	85 - 115	PASS
Toluene-d8	98.4	88 - 110	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L09110114 Prep Date:11/07/09 13:35 Sample ID:WG316826-01
Instrument ID:HPMS9 Run Date:11/07/09 13:35 Prep Method:5030C
File ID:9M73419 Analyst:MES Method:8260B
Workgroup (AAB#):WG316826 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-02-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/07/09 13:35 Sample ID: WG316826-01
Instrument ID: HPMS9 Run Date: 11/07/09 13:35 Prep Method: 5030C
File ID: 9M73419 Analyst: MES Method: 8260B
Workgroup (AAB#): WG316826 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-02-NOV-09

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.7	70 - 121	PASS
4-Bromofluorobenzene	109	59 - 113	PASS
Dibromofluoromethane	97.8	65 - 135	PASS
Toluene-d8	105	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 12:29 Sample ID: WG316889-01
Instrument ID: HPMS9 Run Date: 11/09/09 12:29 Prep Method: 5030C/5035A
File ID: 9M73451 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG316889 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-02-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,1,1-Trichloroethane	0.500	5.00	5.00	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	5.00	1	U
1,1,2-Trichloroethane	0.500	5.00	5.00	1	U
1,1-Dichloroethane	1.00	5.00	5.00	1	U
1,1-Dichloroethene	0.500	5.00	5.00	1	U
1,2,4-Trichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichlorobenzene	0.500	5.00	5.00	1	U
1,2-Dichloroethane	0.500	5.00	5.00	1	U
1,2-Dichloropropane	0.500	5.00	5.00	1	U
1,3-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dichlorobenzene	0.500	5.00	5.00	1	U
1,4-Dioxane	50.0	1700	1700	1	U
2-Butanone	2.50	25.0	25.0	1	U
2-Hexanone	2.50	10.0	10.0	1	U
4-Methyl-2-pentanone	2.50	10.0	10.0	1	U
Acetone	5.00	100	100	1	U
Acrylonitrile	2.50	100	100	1	U
Benzene	0.500	5.00	5.00	1	U
Bromodichloromethane	0.500	5.00	5.00	1	U
Bromoform	0.500	5.00	5.00	1	U
Bromomethane	1.00	10.0	10.0	1	U
Carbon disulfide	0.500	5.00	5.00	1	U
Carbon tetrachloride	0.500	5.00	5.00	1	U
Chlorobenzene	0.500	5.00	5.00	1	U
Dibromochloromethane	0.500	5.00	5.00	1	U
Chloroethane	1.00	10.0	10.0	1	U
Chloroform	0.500	5.00	5.00	1	U
Chloromethane	2.00	10.0	10.0	1	U
cis-1,2-Dichloroethene	0.500	5.00	5.00	1	U
cis-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Ethylbenzene	0.500	5.00	5.00	1	U
Methylene chloride	1.00	5.00	5.00	1	U
Methyltert-butyl ether	0.500	10.0	10.0	1	U
Styrene	0.500	5.00	5.00	1	U
Tetrachloroethene	0.500	5.00	5.00	1	U
Toluene	0.500	5.00	5.00	1	U
trans-1,2-Dichloroethene	0.500	5.00	5.00	1	U
trans-1,3-Dichloropropene	0.500	5.00	5.00	1	U
Trichloroethene	0.500	5.00	5.00	1	U
Vinyl acetate	1.00	10.0	10.0	1	U
Vinyl chloride	1.00	10.0	10.0	1	U
Xylenes	0.500	10.0	10.0	1	U

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 12:29 Sample ID: WG316889-01
Instrument ID: HPMS9 Run Date: 11/09/09 12:29 Prep Method: 5030C/5035A
File ID: 9M73451 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG316889 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-02-NOV-09

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	91.5	70 - 121	PASS
4-Bromofluorobenzene	110	59 - 113	PASS
Dibromofluoromethane	98.1	65 - 135	PASS
Toluene-d8	104	86 - 138	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536098
11-NOV-2009 13:40

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/09/2009 Sample ID: WG316861-02
Instrument ID: HPMS8 Run Time: 11:26 Prep Method: 5030C
File ID: 8M357815 Analyst: MES Method: 8260B
Workgroup (AAB#): WG316861 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD36245 Cal ID: HPMS8-04-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,1,1-Trichloroethane	20.0	20.4	102	67 - 132	
1,1,2,2-Tetrachloroethane	20.0	16.2	80.8	63 - 128	
1,1,2-Trichloroethane	20.0	17.9	89.4	70 - 125	
1,1-Dichloroethane	20.0	19.7	98.5	67 - 133	
1,1-Dichloroethene	20.0	20.6	103	68 - 130	
1,2,4-Trichlorobenzene	20.0	16.5	82.6	65 - 134	
1,2-Dichlorobenzene	20.0	16.6	83.2	71 - 122	
1,2-Dichloroethane	20.0	18.9	94.4	69 - 132	
1,2-Dichloropropane	20.0	18.5	92.3	75 - 125	
1,3-Dichlorobenzene	20.0	16.9	84.7	75 - 124	
1,4-Dichlorobenzene	20.0	16.5	82.3	74 - 123	
1,4-Dioxane	200	162	81.0	70 - 130	
2-Butanone	20.0	19.4	97.2	49 - 136	
2-Hexanone	20.0	18.7	93.7	65 - 135	
4-Methyl-2-pentanone	20.0	20.1	101	58 - 134	
Acetone	20.0	18.9	94.4	30 - 135	
Acrylonitrile	20.0	20.0	99.9	60 - 135	
Benzene	20.0	19.4	97.2	81 - 122	
Bromodichloromethane	20.0	20.4	102	76 - 121	
Bromoform	20.0	20.6	103	69 - 128	
Bromomethane	20.0	20.3	101	53 - 141	
Carbon disulfide	20.0	16.6	82.9	70 - 130	
Carbon tetrachloride	20.0	21.4	107	66 - 138	
Chlorobenzene	20.0	17.9	89.3	81 - 122	
Dibromochloromethane	20.0	19.7	98.7	66 - 133	
Chloroethane	20.0	20.0	100	58 - 133	
Chloroform	20.0	19.7	98.4	69 - 128	
Chloromethane	20.0	19.5	97.6	56 - 131	
cis-1,2-Dichloroethene	20.0	20.0	99.9	72 - 126	
cis-1,3-Dichloropropene	20.0	19.2	96.0	69 - 131	
Ethylbenzene	20.0	17.8	88.8	73 - 127	
Methylene chloride	20.0	18.1	90.6	63 - 137	
Methyltert-butyl ether	20.0	19.9	99.5	65 - 123	
Styrene	20.0	17.6	87.9	65 - 134	
Tetrachloroethene	20.0	20.4	102	66 - 128	
Toluene	20.0	17.4	86.8	77 - 122	
trans-1,2-Dichloroethene	20.0	19.2	95.9	63 - 137	
trans-1,3-Dichloropropene	20.0	15.4	77.2	59 - 135	
Trichloroethene	20.0	21.5	107	70 - 127	
Vinyl acetate	20.0	27.3	136	65 - 130	*
Vinyl chloride	20.0	20.2	101	50 - 134	

LCS - Modified 03/06/2008
PDF File ID: 1536088
Report generated: 11/10/2009 12:35

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/09/2009 Sample ID: WG316861-02
Instrument ID: HPMS8 Run Time: 11:26 Prep Method: 5030C
File ID: 8M357815 Analyst: MES Method: 8260B
Workgroup (AAB#): WG316861 Matrix: Water Units: ug/L
QC Key: DOWWV2006 Lot#: STD36245 Cal ID: HPMS8-04-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Xylenes	60.0	54.5	90.9	75 - 120	

Surrogates	% Recovery	Surrogate Limits	Qualifier
1,2-Dichloroethane-d4	93.2	76 - 114	PASS
4-Bromofluorobenzene	87.6	86 - 115	PASS
Dibromofluoromethane	104	85 - 115	PASS
Toluene-d8	94.0	88 - 110	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1536088
Report generated: 11/10/2009 12:35

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: TMB Prep Method: 5030C
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG316889 Units: ug/kg
QC Key: DOWWV2006 Lot #:

Sample ID: WG316889-02 LCS File ID: 9M73452 Run Date: 11/09/2009 13:01
Sample ID: WG316889-03 LCS2 File ID: 9M73453 Run Date: 11/09/2009 13:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	17.4	87.1	20.0	18.6	92.9	6.51	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	17.1	85.3	20.0	19.1	95.7	11.5	59 - 140	30	
1,1,2-Trichloroethane	20.0	17.2	85.8	20.0	19.4	96.9	12.2	62 - 127	30	
1,1-Dichloroethane	20.0	17.2	85.9	20.0	19.0	94.8	9.87	73 - 125	30	
1,1-Dichloroethene	20.0	17.0	85.2	20.0	18.4	91.9	7.53	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	16.8	83.8	20.0	19.0	95.2	12.7	65 - 131	30	
1,2-Dichlorobenzene	20.0	17.9	89.7	20.0	19.6	97.9	8.74	74 - 120	30	
1,2-Dichloroethane	20.0	16.9	84.4	20.0	18.4	91.9	8.59	72 - 137	30	
1,2-Dichloropropane	20.0	16.9	84.7	20.0	18.6	93.1	9.38	71 - 120	30	
1,3-Dichlorobenzene	20.0	17.7	88.4	20.0	19.1	95.7	7.98	72 - 124	30	
1,4-Dichlorobenzene	20.0	17.4	86.9	20.0	18.9	94.3	8.13	72 - 125	30	
1,4-Dioxane	200	165	82.4	200	168	83.8	1.65	50 - 150	30	
2-Butanone	20.0	18.3	91.4	20.0	18.9	94.3	3.13	40 - 135	30	
2-Hexanone	20.0	18.0	90.1	20.0	20.5	102	12.6	50 - 140	30	
4-Methyl-2-pentanone	20.0	17.9	89.6	20.0	20.0	100	11.1	50 - 140	30	
Acetone	20.0	15.5	77.4	20.0	17.8	88.9	13.8	40 - 141	30	
Acrylonitrile	20.0	17.9	89.4	20.0	19.7	98.4	9.57	60 - 140	30	
Benzene	20.0	17.0	85.0	20.0	18.8	93.9	9.92	73 - 126	30	
Bromodichloromethane	20.0	17.1	85.7	20.0	19.0	95.2	10.5	72 - 128	30	
Bromoform	20.0	16.1	80.3	20.0	17.6	87.8	8.91	60 - 137	30	
Bromomethane	20.0	19.0	95.0	20.0	20.4	102	7.32	45 - 141	30	
Carbon disulfide	20.0	16.1	80.4	20.0	17.3	86.5	7.29	65 - 135	30	
Carbon tetrachloride	20.0	17.4	87.2	20.0	19.0	94.8	8.38	67 - 133	30	
Chlorobenzene	20.0	17.1	85.4	20.0	19.0	94.8	10.4	75 - 123	30	
Dibromochloromethane	20.0	16.6	83.1	20.0	18.7	93.7	12.1	66 - 130	30	
Chloroethane	20.0	19.9	99.3	20.0	20.8	104	4.36	41 - 141	30	
Chloroform	20.0	17.1	85.7	20.0	18.9	94.4	9.75	72 - 124	30	
Chloromethane	20.0	18.7	93.5	20.0	20.2	101	7.52	51 - 129	30	
cis-1,2-Dichloroethene	20.0	17.2	85.8	20.0	19.0	95.0	10.2	67 - 125	30	
cis-1,3-Dichloropropene	20.0	16.7	83.4	20.0	18.4	92.1	9.94	72 - 126	30	
Ethylbenzene	20.0	17.6	88.2	20.0	18.7	93.6	6.02	74 - 127	30	
Methylene chloride	20.0	16.8	83.9	20.0	18.6	92.9	10.2	63 - 137	30	
Methyltert-butyl ether	20.0	18.1	90.7	20.0	20.0	99.9	9.63	50 - 135	30	
Styrene	20.0	17.0	85.2	20.0	18.6	93.1	8.96	74 - 128	30	
Tetrachloroethene	20.0	18.2	91.0	20.0	19.1	95.6	4.85	67 - 139	30	
Toluene	20.0	17.8	89.0	20.0	19.1	95.3	6.89	71 - 127	30	
trans-1,2-Dichloroethene	20.0	17.5	87.4	20.0	19.1	95.6	8.95	66 - 134	30	
trans-1,3-Dichloropropene	20.0	14.8	73.9	20.0	16.5	82.3	10.7	65 - 127	30	
Trichloroethene	20.0	17.2	86.0	20.0	18.8	94.1	8.95	77 - 124	30	
Vinyl acetate	20.0	17.2	86.0	20.0	18.9	94.7	9.70	55 - 130	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID:
Report generated: 11/12/2009 07:15

Microbac Laboratories Inc.

LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: TMB Prep Method: 5030C

Instrument ID: HPMS9 Matrix: Soil Method: 8260B

Workgroup (AAB#): WG316889 Units: ug/kg

QC Key: DOWWV2006 Lot #:

Sample ID: WG316889-02 LCS File ID: 9M73452 Run Date: 11/09/2009 13:01

Sample ID: WG316889-03 LCS2 File ID: 9M73453 Run Date: 11/09/2009 13:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	17.3	86.6	20.0	17.9	89.7	3.53	58 - 126	30	
Xylenes	60.0	52.8	88.0	60.0	58.1	96.8	9.54	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	96.2	96.9	70 - 121	PASS
Dibromofluoromethane	98.7	100	65 - 135	PASS
4-Bromofluorobenzene	109	110	59 - 113	PASS
Toluene-d8	105	105	86 - 138	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008

PDF File ID:

Report generated: 11/12/2009 07:15

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: MES Prep Method: 5030C/5035A
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG316826 Units: ug/kg
QC Key: DOWWV2006 Lot #:

Sample ID: WG316826-02 LCS File ID: 9M73420 Run Date: 11/07/2009 14:06
Sample ID: WG316826-03 LCS2 File ID: 9M73421 Run Date: 11/07/2009 14:38

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1-Trichloroethane	20.0	19.0	94.9	20.0	19.0	95.2	0.330	68 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	21.4	107	20.0	21.0	105	2.01	59 - 140	30	
1,1,2-Trichloroethane	20.0	20.4	102	20.0	20.1	101	1.33	62 - 127	30	
1,1-Dichloroethane	20.0	19.2	95.8	20.0	19.1	95.6	0.153	73 - 125	30	
1,1-Dichloroethene	20.0	19.4	97.0	20.0	19.3	96.7	0.231	65 - 136	30	
1,2,4-Trichlorobenzene	20.0	20.5	102	20.0	21.0	105	2.29	65 - 131	30	
1,2-Dichlorobenzene	20.0	21.8	109	20.0	21.5	108	1.24	74 - 120	30	
1,2-Dichloroethane	20.0	19.0	94.9	20.0	18.3	91.7	3.47	72 - 137	30	
1,2-Dichloropropane	20.0	19.4	96.8	20.0	18.9	94.3	2.57	71 - 120	30	
1,3-Dichlorobenzene	20.0	21.1	106	20.0	21.1	106	0.0091	72 - 124	30	
1,4-Dichlorobenzene	20.0	20.8	104	20.0	20.5	103	1.53	72 - 125	30	
1,4-Dioxane	200	192	96.1	200	164	81.9	15.9	50 - 150	30	
2-Butanone	20.0	19.0	94.8	20.0	20.0	100	5.41	40 - 135	30	
2-Hexanone	20.0	19.5	97.5	20.0	21.7	108	10.5	50 - 140	30	
4-Methyl-2-pentanone	20.0	19.0	95.1	20.0	20.2	101	5.87	50 - 140	30	
Acetone	20.0	19.2	96.2	20.0	20.3	102	5.54	40 - 141	30	
Acrylonitrile	20.0	19.2	96.0	20.0	19.9	99.5	3.61	60 - 140	30	
Benzene	20.0	19.1	95.3	20.0	19.0	95.2	0.0862	73 - 126	30	
Bromodichloromethane	20.0	20.3	101	20.0	19.8	99.0	2.28	72 - 128	30	
Bromoform	20.0	19.7	98.4	20.0	19.0	94.8	3.78	60 - 137	30	
Bromomethane	20.0	22.0	110	20.0	21.5	107	2.60	45 - 141	30	
Carbon disulfide	20.0	17.6	87.8	20.0	17.7	88.7	0.909	65 - 135	30	
Carbon tetrachloride	20.0	19.5	97.4	20.0	19.1	95.5	1.93	67 - 133	30	
Chlorobenzene	20.0	20.1	100	20.0	20.1	100	0.0559	75 - 123	30	
Dibromochloromethane	20.0	20.3	102	20.0	19.9	99.5	2.09	66 - 130	30	
Chloroethane	20.0	22.7	113	20.0	22.1	110	2.55	41 - 141	30	
Chloroform	20.0	19.5	97.5	20.0	19.5	97.3	0.236	72 - 124	30	
Chloromethane	20.0	21.4	107	20.0	21.8	109	1.87	51 - 129	30	
cis-1,2-Dichloroethene	20.0	19.5	97.5	20.0	19.3	96.4	1.11	67 - 125	30	
cis-1,3-Dichloropropene	20.0	19.2	96.1	20.0	18.7	93.6	2.64	72 - 126	30	
Ethylbenzene	20.0	20.4	102	20.0	19.8	98.8	3.17	74 - 127	30	
Methylene chloride	20.0	18.6	93.1	20.0	18.5	92.5	0.613	63 - 137	30	
Methyltert-butyl ether	20.0	19.2	95.8	20.0	19.7	98.4	2.74	50 - 135	30	
Styrene	20.0	20.5	102	20.0	19.9	99.4	2.91	74 - 128	30	
Tetrachloroethene	20.0	20.4	102	20.0	19.9	99.5	2.73	67 - 139	30	
Toluene	20.0	20.0	100	20.0	19.6	98.1	2.12	71 - 127	30	
trans-1,2-Dichloroethene	20.0	19.2	95.8	20.0	19.5	97.5	1.73	66 - 134	30	
trans-1,3-Dichloropropene	20.0	17.2	86.0	20.0	16.9	84.3	2.04	65 - 127	30	
Trichloroethene	20.0	19.3	96.7	20.0	18.9	94.6	2.25	77 - 124	30	
Vinyl acetate	20.0	18.9	94.6	20.0	19.3	96.3	1.87	55 - 130	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1536099
Report generated: 11/12/2009 07:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: MES Prep Method: 5030C/5035A
Instrument ID: HPMS9 Matrix: Soil Method: 8260B
Workgroup (AAB#): WG316826 Units: ug/kg
QC Key: DOWWV2006 Lot #:

Sample ID: WG316826-02 LCS File ID: 9M73420 Run Date: 11/07/2009 14:06
Sample ID: WG316826-03 LCS2 File ID: 9M73421 Run Date: 11/07/2009 14:38

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Vinyl chloride	20.0	20.9	105	20.0	20.6	103	1.71	58 - 126	30	
Xylenes	60.0	61.5	103	60.0	61.2	102	0.495	75 - 130	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	94.5	94.0	70 - 121	PASS
Dibromofluoromethane	97.8	98.3	65 - 135	PASS
4-Bromofluorobenzene	104	106	59 - 113	PASS
Toluene-d8	101	103	86 - 138	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1536099
Report generated: 11/12/2009 07:13

2.2 Semivolatiles Data

2.2.1 Semivolatiles GC/MS Data (8270)

2.2.1.1 Summary Data

Loginnum: L09110114

Department: Semivolatiles

Analyst: Cassie A. Augenstein

METHOD

Preparation 3545

Analysis SW-846 8270C/40 CFR 264 App. IX

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

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

Alternate Source Standards: All analytes met the ICV acceptance criteria, except those listed below.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
WG315933-10	HPMS12	10/31/2009	3,3'-DICHLOROBENZIDINE	REG		(-)38.2	*	25
WG315933-10	HPMS12	10/31/2009	4-CHLOROPHENYL PHENYL ETHER	REG		(-)26.7	*	25
WG315933-10	HPMS12	10/31/2009	4-NITROANILINE	REG		(-)26.6	*	25
WG315933-10	HPMS12	10/31/2009	BIS(2-CHLOROETHOXY)METHANE	REG		(-)39.5	*	25
WG316819-10	HPMS12	11/08/2009	3,3'-DICHLOROBENZIDINE	REG		(-)47.5	*	25
WG316819-10	HPMS12	11/08/2009	BIS(2-CHLOROETHOXY)METHANE	REG		(-)36.6	*	25

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All analytes met the LCS acceptance criteria for % recovery and relative percent difference, except those listed below. An astrisk (*) denotes that the value is relative percent difference.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
WG316671-02	HPMS12	11/06/2009	2,4-DICHLOROPHENOL	REG	CCC	44.6	45	125
WG316671-02	HPMS12	11/06/2009	2-CHLORONAPHTHALENE	REG		38.3	45	125
WG316671-02	HPMS12	11/06/2009	2-CHLOROPHENOL	REG		43.3	44	125
WG316671-02	HPMS12	11/06/2009	2-METHYLNAPHTHALENE	REG		43.5	47	125
WG316671-02	HPMS12	11/06/2009	3-,4-METHYLPHENOL	REG		43.8	50	120
WG316671-02	HPMS12	11/06/2009	BIS(2-CHLOROETHOXY)METHANE	REG		29.0	43	125
WG316671-02	HPMS12	11/06/2009	DIBENZOFURAN	REG		50.9	51	125
WG316671-02	HPMS12	11/06/2009	ISOPHORONE	REG		42.6	43	125
WG316671-03	HPMS12	11/06/2009	2,4,5-TRICHLOROPHENOL	REG		48.8	49	125
WG316671-03	HPMS12	11/06/2009	2,4-DICHLOROPHENOL	REG	CCC	42.1	45	125
WG316671-03	HPMS12	11/06/2009	2-CHLORONAPHTHALENE	REG		36.1	45	125
WG316671-03	HPMS12	11/06/2009	2-CHLOROPHENOL	REG		42.9	44	125
WG316671-03	HPMS12	11/06/2009	2-METHYLNAPHTHALENE	REG		41.9	47	125
WG316671-03	HPMS12	11/06/2009	3-,4-METHYLPHENOL	REG		42.6	50	120
WG316671-03	HPMS12	11/06/2009	4-CHLOROPHENYL PHENYL ETHER	REG		45.1	47	125
WG316671-03	HPMS12	11/06/2009	ACENAPHTHENE	REG	CCC	44.5	46	125
WG316671-03	HPMS12	11/06/2009	ACENAPHTHYLENE	REG		43.9	44	125
WG316671-03	HPMS12	11/06/2009	BIS(2-CHLOROETHOXY)METHANE	REG		28.2	43	125
WG316671-03	HPMS12	11/06/2009	DIBENZOFURAN	REG		47.0	51	125
WG316671-03	HPMS12	11/06/2009	FLUORENE	REG		48.6	49	125
WG316671-03	HPMS12	11/06/2009	ISOPHORONE	REG		39.5	43	125
WG316912-02	HPMS12	11/10/2009	2-NITROANILINE	REG		39.5	44	125
WG316912-02	HPMS12	11/10/2009	BIS(2-CHLOROETHOXY)METHANE	REG		39.9	43	125
WG316912-02	HPMS12	11/10/2009	BIS(2-ETHYLHEXYL)PHTHALATE	REG		42.7	47	127
WG316912-02	HPMS12	11/10/2009	BUTYL BENZYL PHTHALATE	REG		44.5	49	125
WG316912-02	HPMS12	11/10/2009	N-NITROSODIPROPYLAMINE	REG	SPCC	34.2	40	125
WG316912-03	HPMS12	11/10/2009	3,3'-DICHLOROBENZIDINE	REG		58.6	*	30
WG316912-03	HPMS12	11/10/2009	3-,4-METHYLPHENOL	REG		49.9	50	120
WG316912-03	HPMS12	11/10/2009	BIS(2-CHLOROETHOXY)METHANE	REG		37.2	43	125
WG316912-03	HPMS12	11/10/2009	N-NITROSODIPROPYLAMINE	REG	SPCC	39.2	40	125

Samples associated with WG316671 were re-extracted due to poor LCS recovery.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: Samples 03 and 05 were run at a dilution due to extract appearance.

Internal Standards:

All acceptance criteria were met.

Surrogates: All surrogate compounds met the acceptance criteria for % recovery, except for the following samples.

Sample	Instrument	Date	Analyte	AType	CType	Rec/RPD	Lower	Upper
L09110114-03	HPMS12	11/06/2009	2,4,6-TRIBROMOPHENOL	SURR		15.8	19	122
L09110114-03	HPMS12	11/06/2009	2-FLUOROBIPHENYL	SURR		27.6	30	115
L09110114-05	HPMS12	11/06/2009	2-FLUOROBIPHENYL	SURR		28.3	30	115

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

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

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	8270C	1	05-NOV-09
TEST PIT5-WS-110409	L09110114-01	8270C	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	8270C	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	8270C	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	8270C	2	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	8270C	2	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	8270C	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	8270C	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	8270C	2	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	8270C	2	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	8270C	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	8270C	1	05-NOV-09

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-01**
Client ID: **TEST PIT5-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 09:45**
Sample Tag: **RE1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 17:41**
File ID: **12M27963**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	202	101
2,4,5-Trichlorophenol	95-95-4		U	202	101
2,4,6-Trichlorophenol	88-06-2		U	202	101
2,4-Dichlorophenol	120-83-2		U	202	101
2,4-Dimethylphenol	105-67-9		U	202	101
2,4-Dinitrophenol	51-28-5		U	1010	503
2,4-Dinitrotoluene	121-14-2		U	202	101
2,6-Dinitrotoluene	606-20-2		U	202	101
2-Chloronaphthalene	91-58-7		U	202	101
2-Chlorophenol	95-57-8		U	202	101
2-Methylnaphthalene	91-57-6	412		202	101
2-Methylphenol	95-48-7		U	202	101
2-Nitroaniline	88-74-4		U	1010	503
2-Nitrophenol	88-75-5		U	202	101
3,3'-Dichlorobenzidine	91-94-1		U	403	202
3-,4-Methylphenol	106-44-5		U	202	101
3-Nitroaniline	99-09-2		U	1010	503
4,6-Dinitro-2-methylphenol	534-52-1		U	1010	503
4-Bromophenyl phenyl ether	101-55-3		U	202	101
4-Chloro-3-methylphenol	59-50-7		U	202	101
4-Chloroaniline	106-47-8		U	202	101
4-Chlorophenyl phenyl ether	7005-72-3		U	202	101
4-Nitroaniline	100-01-6		U	1010	503
4-Nitrophenol	100-02-7		U	1010	503
Acenaphthene	83-32-9		U	202	101
Acenaphthylene	208-96-8		U	202	101
Anthracene	120-12-7		U	202	101
Benzo(a)anthracene	56-55-3		U	202	101
Benzo(a)pyrene	50-32-8		U	202	101
Benzo(b)fluoranthene	205-99-2		U	202	101
Benzo(g,h,i)Perylene	191-24-2		U	202	101
Benzo(k)fluoranthene	207-08-9		U	202	101
Bis(2-Chloroethoxy)Methane	111-91-1		U	202	101
Bis(2-Chloroethyl)ether	111-44-4		U	202	101
bis(2-Chloroisopropyl)ether	108-60-1		U	202	101
bis(2-Ethylhexyl)phthalate	117-81-7		U	202	101
Butyl benzyl phthalate	85-68-7		U	202	101
Carbazole	86-74-8		U	202	101
Chrysene	218-01-9		U	202	101
Dibenz(a,h)anthracene	53-70-3		U	202	101
Dibenzofuran	132-64-9		U	202	101
Diethyl phthalate	84-66-2		U	202	101
Dimethyl phthalate	131-11-3		U	202	101
Di-N-Butylphthalate	84-74-2		U	202	101
Di-n-octyl phthalate	117-84-0		U	202	101
Fluoranthene	206-44-0		U	202	101
Fluorene	86-73-7		U	202	101
Hexachlorobenzene	118-74-1		U	202	101
Hexachlorobutadiene	87-68-3		U	202	101
Hexachlorocyclopentadiene	77-47-4		U	202	101
Hexachloroethane	67-72-1		U	202	101
Indeno(1,2,3-cd)pyrene	193-39-5		U	202	101
Isophorone	78-59-1		U	202	101
Naphthalene	91-20-3	334		202	101
Nitrobenzene	98-95-3		U	202	101
N-Nitrosodiphenylamine	86-30-6		U	202	101
N-Nitrosodipropylamine	621-64-7		U	202	101
Pentachlorophenol	87-86-5		U	1010	503
Phenanthrene	85-01-8		U	202	101

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT5-WS-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 17:41
Collect Date:	11/04/2009 09:45	Dilution:	1	File ID:	12M27963
Sample Tag:	RE1	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	202	101
Pyrene	129-00-0		U	202	101

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	38.6	19	122	
2-Fluorobiphenyl	49.3	30	115	
2-Fluorophenol	39.6	25	121	
Nitrobenzene-d5	47.1	23	120	
p-Terphenyl-d14	70.1	18	137	
Phenol-d5	46.6	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-01**
Client ID: **TEST PIT5-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 09:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 17:20**
File ID: **12M27864**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	204	102
2,4,5-Trichlorophenol	95-95-4		U	204	102
2,4,6-Trichlorophenol	88-06-2		U	204	102
2,4-Dichlorophenol	120-83-2		U	204	102
2,4-Dimethylphenol	105-67-9		U	204	102
2,4-Dinitrophenol	51-28-5		U	1020	509
2,4-Dinitrotoluene	121-14-2		U	204	102
2,6-Dinitrotoluene	606-20-2		U	204	102
2-Chloronaphthalene	91-58-7		U	204	102
2-Chlorophenol	95-57-8		U	204	102
2-Methylnaphthalene	91-57-6	448		204	102
2-Methylphenol	95-48-7		U	204	102
2-Nitroaniline	88-74-4		U	1020	509
2-Nitrophenol	88-75-5		U	204	102
3,3'-Dichlorobenzidine	91-94-1		U	408	204
3-,4-Methylphenol	106-44-5		U	204	102
3-Nitroaniline	99-09-2		U	1020	509
4,6-Dinitro-2-methylphenol	534-52-1		U	1020	509
4-Bromophenyl phenyl ether	101-55-3		U	204	102
4-Chloro-3-methylphenol	59-50-7		U	204	102
4-Chloroaniline	106-47-8		U	204	102
4-Chlorophenyl phenyl ether	7005-72-3		U	204	102
4-Nitroaniline	100-01-6		U	1020	509
4-Nitrophenol	100-02-7		U	1020	509
Acenaphthene	83-32-9		U	204	102
Acenaphthylene	208-96-8		U	204	102
Anthracene	120-12-7		U	204	102
Benzo(a)anthracene	56-55-3		U	204	102
Benzo(a)pyrene	50-32-8		U	204	102
Benzo(b)fluoranthene	205-99-2		U	204	102
Benzo(g,h,i)Perylene	191-24-2		U	204	102
Benzo(k)fluoranthene	207-08-9		U	204	102
Bis(2-Chloroethoxy)Methane	111-91-1		U	204	102
Bis(2-Chloroethyl)ether	111-44-4		U	204	102
bis(2-Chloroisopropyl)ether	108-60-1		U	204	102
bis(2-Ethylhexyl)phthalate	117-81-7		U	204	102
Butyl benzyl phthalate	85-68-7		U	204	102
Carbazole	86-74-8		U	204	102
Chrysene	218-01-9		U	204	102
Dibenz(a,h)anthracene	53-70-3		U	204	102
Dibenzofuran	132-64-9		U	204	102
Diethyl phthalate	84-66-2		U	204	102
Dimethyl phthalate	131-11-3		U	204	102
Di-N-Butylphthalate	84-74-2		U	204	102
Di-n-octyl phthalate	117-84-0		U	204	102
Fluoranthene	206-44-0		U	204	102
Fluorene	86-73-7		U	204	102
Hexachlorobenzene	118-74-1		U	204	102
Hexachlorobutadiene	87-68-3		U	204	102
Hexachlorocyclopentadiene	77-47-4		U	204	102
Hexachloroethane	67-72-1		U	204	102
Indeno(1,2,3-cd)pyrene	193-39-5		U	204	102
Isophorone	78-59-1		U	204	102
Naphthalene	91-20-3	368		204	102
Nitrobenzene	98-95-3		U	204	102
N-Nitrosodiphenylamine	86-30-6		U	204	102
N-Nitrosodipropylamine	621-64-7		U	204	102
Pentachlorophenol	87-86-5		U	1020	509
Phenanthrene	85-01-8	213		204	102

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-01	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT5-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 17:20
Collect Date:	11/04/2009 09:45	Dilution:	1	File ID:	12M27864
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	204	102
Pyrene	129-00-0		U	204	102

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	27.0	19	122	
2-Fluorobiphenyl	44.5	30	115	
2-Fluorophenol	31.6	25	121	
Nitrobenzene-d5	48.4	23	120	
p-Terphenyl-d14	70.8	18	137	
Phenol-d5	37.9	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-02**
Client ID: **TEST PIT5-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 09:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 17:53**
File ID: **12M27865**
Percent Solid: **83.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	230	115
2,4,5-Trichlorophenol	95-95-4		U	230	115
2,4,6-Trichlorophenol	88-06-2		U	230	115
2,4-Dichlorophenol	120-83-2		U	230	115
2,4-Dimethylphenol	105-67-9		U	230	115
2,4-Dinitrophenol	51-28-5		U	1150	573
2,4-Dinitrotoluene	121-14-2		U	230	115
2,6-Dinitrotoluene	606-20-2		U	230	115
2-Chloronaphthalene	91-58-7		U	230	115
2-Chlorophenol	95-57-8		U	230	115
2-Methylnaphthalene	91-57-6		U	230	115
2-Methylphenol	95-48-7		U	230	115
2-Nitroaniline	88-74-4		U	1150	573
2-Nitrophenol	88-75-5		U	230	115
3,3'-Dichlorobenzidine	91-94-1		U	459	230
3-,4-Methylphenol	106-44-5		U	230	115
3-Nitroaniline	99-09-2		U	1150	573
4,6-Dinitro-2-methylphenol	534-52-1		U	1150	573
4-Bromophenyl phenyl ether	101-55-3		U	230	115
4-Chloro-3-methylphenol	59-50-7		U	230	115
4-Chloroaniline	106-47-8		U	230	115
4-Chlorophenyl phenyl ether	7005-72-3		U	230	115
4-Nitroaniline	100-01-6		U	1150	573
4-Nitrophenol	100-02-7		U	1150	573
Acenaphthene	83-32-9		U	230	115
Acenaphthylene	208-96-8		U	230	115
Anthracene	120-12-7		U	230	115
Benzo(a)anthracene	56-55-3		U	230	115
Benzo(a)pyrene	50-32-8		U	230	115
Benzo(b)fluoranthene	205-99-2		U	230	115
Benzo(g,h,i)Perylene	191-24-2		U	230	115
Benzo(k)fluoranthene	207-08-9		U	230	115
Bis(2-Chloroethoxy)Methane	111-91-1		U	230	115
Bis(2-Chloroethyl)ether	111-44-4		U	230	115
bis(2-Chloroisopropyl)ether	108-60-1		U	230	115
bis(2-Ethylhexyl)phthalate	117-81-7		U	230	115
Butyl benzyl phthalate	85-68-7		U	230	115
Carbazole	86-74-8		U	230	115
Chrysene	218-01-9		U	230	115
Dibenz(a,h)anthracene	53-70-3		U	230	115
Dibenzofuran	132-64-9		U	230	115
Diethyl phthalate	84-66-2		U	230	115
Dimethyl phthalate	131-11-3		U	230	115
Di-N-Butylphthalate	84-74-2		U	230	115
Di-n-octyl phthalate	117-84-0		U	230	115
Fluoranthene	206-44-0		U	230	115
Fluorene	86-73-7		U	230	115
Hexachlorobenzene	118-74-1		U	230	115
Hexachlorobutadiene	87-68-3		U	230	115
Hexachlorocyclopentadiene	77-47-4		U	230	115
Hexachloroethane	67-72-1		U	230	115
Indeno(1,2,3-cd)pyrene	193-39-5		U	230	115
Isophorone	78-59-1		U	230	115
Naphthalene	91-20-3		U	230	115
Nitrobenzene	98-95-3		U	230	115
N-Nitrosodiphenylamine	86-30-6		U	230	115
N-Nitrosodipropylamine	621-64-7		U	230	115
Pentachlorophenol	87-86-5		U	1150	573
Phenanthrene	85-01-8		U	230	115

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-02	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT5-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 17:53
Collect Date:	11/04/2009 09:55	Dilution:	1	File ID:	12M27865
Sample Tag:	01	Units:	ug/kg	Percent Solid:	83.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	230	115
Pyrene	129-00-0		U	230	115

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	33.1	19	122	
2-Fluorobiphenyl	39.6	30	115	
2-Fluorophenol	48.2	25	121	
Nitrobenzene-d5	47.5	23	120	
p-Terphenyl-d14	57.9	18	137	
Phenol-d5	48.1	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-02**
Client ID: **TEST PIT5-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 09:55**
Sample Tag: **RE1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 16:03**
File ID: **12M27960**
Percent Solid: **83.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	215	108
2,4,5-Trichlorophenol	95-95-4		U	215	108
2,4,6-Trichlorophenol	88-06-2		U	215	108
2,4-Dichlorophenol	120-83-2		U	215	108
2,4-Dimethylphenol	105-67-9		U	215	108
2,4-Dinitrophenol	51-28-5		U	1080	538
2,4-Dinitrotoluene	121-14-2		U	215	108
2,6-Dinitrotoluene	606-20-2		U	215	108
2-Chloronaphthalene	91-58-7		U	215	108
2-Chlorophenol	95-57-8		U	215	108
2-Methylnaphthalene	91-57-6		U	215	108
2-Methylphenol	95-48-7		U	215	108
2-Nitroaniline	88-74-4		U	1080	538
2-Nitrophenol	88-75-5		U	215	108
3,3'-Dichlorobenzidine	91-94-1		U	431	215
3-,4-Methylphenol	106-44-5		U	215	108
3-Nitroaniline	99-09-2		U	1080	538
4,6-Dinitro-2-methylphenol	534-52-1		U	1080	538
4-Bromophenyl phenyl ether	101-55-3		U	215	108
4-Chloro-3-methylphenol	59-50-7		U	215	108
4-Chloroaniline	106-47-8		U	215	108
4-Chlorophenyl phenyl ether	7005-72-3		U	215	108
4-Nitroaniline	100-01-6		U	1080	538
4-Nitrophenol	100-02-7		U	1080	538
Acenaphthene	83-32-9		U	215	108
Acenaphthylene	208-96-8		U	215	108
Anthracene	120-12-7		U	215	108
Benzo(a)anthracene	56-55-3		U	215	108
Benzo(a)pyrene	50-32-8		U	215	108
Benzo(b)fluoranthene	205-99-2		U	215	108
Benzo(g,h,i)Perylene	191-24-2		U	215	108
Benzo(k)fluoranthene	207-08-9		U	215	108
Bis(2-Chloroethoxy)Methane	111-91-1		U	215	108
Bis(2-Chloroethyl)ether	111-44-4		U	215	108
bis(2-Chloroisopropyl)ether	108-60-1		U	215	108
bis(2-Ethylhexyl)phthalate	117-81-7		U	215	108
Butyl benzyl phthalate	85-68-7		U	215	108
Carbazole	86-74-8		U	215	108
Chrysene	218-01-9		U	215	108
Dibenz(a,h)anthracene	53-70-3		U	215	108
Dibenzofuran	132-64-9		U	215	108
Diethyl phthalate	84-66-2		U	215	108
Dimethyl phthalate	131-11-3		U	215	108
Di-N-Butylphthalate	84-74-2		U	215	108
Di-n-octyl phthalate	117-84-0		U	215	108
Fluoranthene	206-44-0		U	215	108
Fluorene	86-73-7		U	215	108
Hexachlorobenzene	118-74-1		U	215	108
Hexachlorobutadiene	87-68-3		U	215	108
Hexachlorocyclopentadiene	77-47-4		U	215	108
Hexachloroethane	67-72-1		U	215	108
Indeno(1,2,3-cd)pyrene	193-39-5		U	215	108
Isophorone	78-59-1		U	215	108
Naphthalene	91-20-3		U	215	108
Nitrobenzene	98-95-3		U	215	108
N-Nitrosodiphenylamine	86-30-6		U	215	108
N-Nitrosodipropylamine	621-64-7		U	215	108
Pentachlorophenol	87-86-5		U	1080	538
Phenanthrene	85-01-8		U	215	108

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-02	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT5-SO-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 16:03
Collect Date:	11/04/2009 09:55	Dilution:	1	File ID:	12M27960
Sample Tag:	RE1	Units:	ug/kg	Percent Solid:	83.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	215	108
Pyrene	129-00-0		U	215	108

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	37.0	19	122	
2-Fluorobiphenyl	38.8	30	115	
2-Fluorophenol	41.3	25	121	
Nitrobenzene-d5	38.3	23	120	
p-Terphenyl-d14	67.3	18	137	
Phenol-d5	37.9	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-03**
Client ID: **TEST PIT6-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 11:30**
Sample Tag: **REDL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 18:14**
File ID: **12M27964**
Percent Solid: **78.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	482	241
2,4,5-Trichlorophenol	95-95-4		U	482	241
2,4,6-Trichlorophenol	88-06-2		U	482	241
2,4-Dichlorophenol	120-83-2		U	482	241
2,4-Dimethylphenol	105-67-9		U	482	241
2,4-Dinitrophenol	51-28-5		U	2410	1200
2,4-Dinitrotoluene	121-14-2		U	482	241
2,6-Dinitrotoluene	606-20-2		U	482	241
2-Chloronaphthalene	91-58-7		U	482	241
2-Chlorophenol	95-57-8		U	482	241
2-Methylnaphthalene	91-57-6	1260		482	241
2-Methylphenol	95-48-7		U	482	241
2-Nitroaniline	88-74-4		U	2410	1200
2-Nitrophenol	88-75-5		U	482	241
3,3'-Dichlorobenzidine	91-94-1		U	965	482
3-,4-Methylphenol	106-44-5		U	482	241
3-Nitroaniline	99-09-2		U	2410	1200
4,6-Dinitro-2-methylphenol	534-52-1		U	2410	1200
4-Bromophenyl phenyl ether	101-55-3		U	482	241
4-Chloro-3-methylphenol	59-50-7		U	482	241
4-Chloroaniline	106-47-8		U	482	241
4-Chlorophenyl phenyl ether	7005-72-3		U	482	241
4-Nitroaniline	100-01-6		U	2410	1200
4-Nitrophenol	100-02-7		U	2410	1200
Acenaphthene	83-32-9		U	482	241
Acenaphthylene	208-96-8		U	482	241
Anthracene	120-12-7		U	482	241
Benzo(a)anthracene	56-55-3		U	482	241
Benzo(a)pyrene	50-32-8		U	482	241
Benzo(b)fluoranthene	205-99-2		U	482	241
Benzo(g,h,i)Perylene	191-24-2		U	482	241
Benzo(k)fluoranthene	207-08-9		U	482	241
Bis(2-Chloroethoxy)Methane	111-91-1		U	482	241
Bis(2-Chloroethyl)ether	111-44-4		U	482	241
bis(2-Chloroisopropyl)ether	108-60-1		U	482	241
bis(2-Ethylhexyl)phthalate	117-81-7		U	482	241
Butyl benzyl phthalate	85-68-7		U	482	241
Carbazole	86-74-8		U	482	241
Chrysene	218-01-9		U	482	241
Dibenz(a,h)anthracene	53-70-3		U	482	241
Dibenzofuran	132-64-9		U	482	241
Diethyl phthalate	84-66-2		U	482	241
Dimethyl phthalate	131-11-3		U	482	241
Di-N-Butylphthalate	84-74-2		U	482	241
Di-n-octyl phthalate	117-84-0		U	482	241
Fluoranthene	206-44-0		U	482	241
Fluorene	86-73-7		U	482	241
Hexachlorobenzene	118-74-1		U	482	241
Hexachlorobutadiene	87-68-3		U	482	241
Hexachlorocyclopentadiene	77-47-4		U	482	241
Hexachloroethane	67-72-1		U	482	241
Indeno(1,2,3-cd)pyrene	193-39-5		U	482	241
Isophorone	78-59-1		U	482	241
Naphthalene	91-20-3	1010		482	241
Nitrobenzene	98-95-3		U	482	241
N-Nitrosodiphenylamine	86-30-6		U	482	241
N-Nitrosodipropylamine	621-64-7		U	482	241
Pentachlorophenol	87-86-5		U	2410	1200
Phenanthrene	85-01-8		U	482	241

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT6-WS-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 18:14
Collect Date:	11/04/2009 11:30	Dilution:	2	File ID:	12M27964
Sample Tag:	REDL01	Units:	ug/kg	Percent Solid:	78.5

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	482	241
Pyrene	129-00-0		U	482	241

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	53.8	19	122	
2-Fluorobiphenyl	59.9	30	115	
2-Fluorophenol	50.3	25	121	
Nitrobenzene-d5	52.0	23	120	
p-Terphenyl-d14	67.9	18	137	
Phenol-d5	50.7	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-03**
Client ID: **TEST PIT6-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 11:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 19:32**
File ID: **12M27868**
Percent Solid: **78.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	486	243
2,4,5-Trichlorophenol	95-95-4		U	486	243
2,4,6-Trichlorophenol	88-06-2		U	486	243
2,4-Dichlorophenol	120-83-2		U	486	243
2,4-Dimethylphenol	105-67-9		U	486	243
2,4-Dinitrophenol	51-28-5		U	2430	1210
2,4-Dinitrotoluene	121-14-2		U	486	243
2,6-Dinitrotoluene	606-20-2		U	486	243
2-Chloronaphthalene	91-58-7		U	486	243
2-Chlorophenol	95-57-8		U	486	243
2-Methylnaphthalene	91-57-6	602		486	243
2-Methylphenol	95-48-7		U	486	243
2-Nitroaniline	88-74-4		U	2430	1210
2-Nitrophenol	88-75-5		U	486	243
3,3'-Dichlorobenzidine	91-94-1		U	972	486
3-,4-Methylphenol	106-44-5		U	486	243
3-Nitroaniline	99-09-2		U	2430	1210
4,6-Dinitro-2-methylphenol	534-52-1		U	2430	1210
4-Bromophenyl phenyl ether	101-55-3		U	486	243
4-Chloro-3-methylphenol	59-50-7		U	486	243
4-Chloroaniline	106-47-8		U	486	243
4-Chlorophenyl phenyl ether	7005-72-3		U	486	243
4-Nitroaniline	100-01-6		U	2430	1210
4-Nitrophenol	100-02-7		U	2430	1210
Acenaphthene	83-32-9		U	486	243
Acenaphthylene	208-96-8		U	486	243
Anthracene	120-12-7		U	486	243
Benzo(a)anthracene	56-55-3		U	486	243
Benzo(a)pyrene	50-32-8		U	486	243
Benzo(b)fluoranthene	205-99-2		U	486	243
Benzo(g,h,i)Perylene	191-24-2		U	486	243
Benzo(k)fluoranthene	207-08-9		U	486	243
Bis(2-Chloroethoxy)Methane	111-91-1		U	486	243
Bis(2-Chloroethyl)ether	111-44-4		U	486	243
bis(2-Chloroisopropyl)ether	108-60-1		U	486	243
bis(2-Ethylhexyl)phthalate	117-81-7		U	486	243
Butyl benzyl phthalate	85-68-7		U	486	243
Carbazole	86-74-8		U	486	243
Chrysene	218-01-9		U	486	243
Dibenz(a,h)anthracene	53-70-3		U	486	243
Dibenzofuran	132-64-9		U	486	243
Diethyl phthalate	84-66-2		U	486	243
Dimethyl phthalate	131-11-3		U	486	243
Di-N-Butylphthalate	84-74-2		U	486	243
Di-n-octyl phthalate	117-84-0		U	486	243
Fluoranthene	206-44-0		U	486	243
Fluorene	86-73-7		U	486	243
Hexachlorobenzene	118-74-1		U	486	243
Hexachlorobutadiene	87-68-3		U	486	243
Hexachlorocyclopentadiene	77-47-4		U	486	243
Hexachloroethane	67-72-1		U	486	243
Indeno(1,2,3-cd)pyrene	193-39-5		U	486	243
Isophorone	78-59-1		U	486	243
Naphthalene	91-20-3	538		486	243
Nitrobenzene	98-95-3		U	486	243
N-Nitrosodiphenylamine	86-30-6		U	486	243
N-Nitrosodipropylamine	621-64-7		U	486	243
Pentachlorophenol	87-86-5		U	2430	1210
Phenanthrene	85-01-8		U	486	243

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT6-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 19:32
Collect Date:	11/04/2009 11:30	Dilution:	2	File ID:	12M27868
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	78.5

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	486	243
Pyrene	129-00-0		U	486	243

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	15.8	19	122	*
2-Fluorobiphenyl	27.6	30	115	*
2-Fluorophenol	27.2	25	121	
Nitrobenzene-d5	31.9	23	120	
p-Terphenyl-d14	47.4	18	137	
Phenol-d5	29.7	24	113	

* Surrogate or spike compound out of range
U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-04**
Client ID: **TEST PIT6-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 11:30**
Sample Tag: **RE1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 17:09**
File ID: **12M27962**
Percent Solid: **85.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	226	113
2,4,5-Trichlorophenol	95-95-4		U	226	113
2,4,6-Trichlorophenol	88-06-2		U	226	113
2,4-Dichlorophenol	120-83-2		U	226	113
2,4-Dimethylphenol	105-67-9		U	226	113
2,4-Dinitrophenol	51-28-5		U	1130	563
2,4-Dinitrotoluene	121-14-2		U	226	113
2,6-Dinitrotoluene	606-20-2		U	226	113
2-Chloronaphthalene	91-58-7		U	226	113
2-Chlorophenol	95-57-8		U	226	113
2-Methylnaphthalene	91-57-6		U	226	113
2-Methylphenol	95-48-7		U	226	113
2-Nitroaniline	88-74-4		U	1130	563
2-Nitrophenol	88-75-5		U	226	113
3,3'-Dichlorobenzidine	91-94-1		U	451	226
3-,4-Methylphenol	106-44-5		U	226	113
3-Nitroaniline	99-09-2		U	1130	563
4,6-Dinitro-2-methylphenol	534-52-1		U	1130	563
4-Bromophenyl phenyl ether	101-55-3		U	226	113
4-Chloro-3-methylphenol	59-50-7		U	226	113
4-Chloroaniline	106-47-8		U	226	113
4-Chlorophenyl phenyl ether	7005-72-3		U	226	113
4-Nitroaniline	100-01-6		U	1130	563
4-Nitrophenol	100-02-7		U	1130	563
Acenaphthene	83-32-9		U	226	113
Acenaphthylene	208-96-8		U	226	113
Anthracene	120-12-7		U	226	113
Benzo(a)anthracene	56-55-3		U	226	113
Benzo(a)pyrene	50-32-8		U	226	113
Benzo(b)fluoranthene	205-99-2		U	226	113
Benzo(g,h,i)Perylene	191-24-2		U	226	113
Benzo(k)fluoranthene	207-08-9		U	226	113
Bis(2-Chloroethoxy)Methane	111-91-1		U	226	113
Bis(2-Chloroethyl)ether	111-44-4		U	226	113
bis(2-Chloroisopropyl)ether	108-60-1		U	226	113
bis(2-Ethylhexyl)phthalate	117-81-7		U	226	113
Butyl benzyl phthalate	85-68-7		U	226	113
Carbazole	86-74-8		U	226	113
Chrysene	218-01-9		U	226	113
Dibenz(a,h)anthracene	53-70-3		U	226	113
Dibenzofuran	132-64-9		U	226	113
Diethyl phthalate	84-66-2		U	226	113
Dimethyl phthalate	131-11-3		U	226	113
Di-N-Butylphthalate	84-74-2		U	226	113
Di-n-octyl phthalate	117-84-0		U	226	113
Fluoranthene	206-44-0		U	226	113
Fluorene	86-73-7		U	226	113
Hexachlorobenzene	118-74-1		U	226	113
Hexachlorobutadiene	87-68-3		U	226	113
Hexachlorocyclopentadiene	77-47-4		U	226	113
Hexachloroethane	67-72-1		U	226	113
Indeno(1,2,3-cd)pyrene	193-39-5		U	226	113
Isophorone	78-59-1		U	226	113
Naphthalene	91-20-3		U	226	113
Nitrobenzene	98-95-3		U	226	113
N-Nitrosodiphenylamine	86-30-6		U	226	113
N-Nitrosodipropylamine	621-64-7		U	226	113
Pentachlorophenol	87-86-5		U	1130	563
Phenanthrene	85-01-8		U	226	113

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT6-SO-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 17:09
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	12M27962
Sample Tag:	RE1	Units:	ug/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	226	113
Pyrene	129-00-0		U	226	113

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	44.4	19	122	
2-Fluorobiphenyl	41.3	30	115	
2-Fluorophenol	40.4	25	121	
Nitrobenzene-d5	41.3	23	120	
p-Terphenyl-d14	81.8	18	137	
Phenol-d5	40.4	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-04**
Client ID: **TEST PIT6-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 18:26**
File ID: **12M27866**
Percent Solid: **85.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	222	111
2,4,5-Trichlorophenol	95-95-4		U	222	111
2,4,6-Trichlorophenol	88-06-2		U	222	111
2,4-Dichlorophenol	120-83-2		U	222	111
2,4-Dimethylphenol	105-67-9		U	222	111
2,4-Dinitrophenol	51-28-5		U	1110	554
2,4-Dinitrotoluene	121-14-2		U	222	111
2,6-Dinitrotoluene	606-20-2		U	222	111
2-Chloronaphthalene	91-58-7		U	222	111
2-Chlorophenol	95-57-8		U	222	111
2-Methylnaphthalene	91-57-6		U	222	111
2-Methylphenol	95-48-7		U	222	111
2-Nitroaniline	88-74-4		U	1110	554
2-Nitrophenol	88-75-5		U	222	111
3,3'-Dichlorobenzidine	91-94-1		U	443	222
3-,4-Methylphenol	106-44-5		U	222	111
3-Nitroaniline	99-09-2		U	1110	554
4,6-Dinitro-2-methylphenol	534-52-1		U	1110	554
4-Bromophenyl phenyl ether	101-55-3		U	222	111
4-Chloro-3-methylphenol	59-50-7		U	222	111
4-Chloroaniline	106-47-8		U	222	111
4-Chlorophenyl phenyl ether	7005-72-3		U	222	111
4-Nitroaniline	100-01-6		U	1110	554
4-Nitrophenol	100-02-7		U	1110	554
Acenaphthene	83-32-9		U	222	111
Acenaphthylene	208-96-8		U	222	111
Anthracene	120-12-7		U	222	111
Benzo(a)anthracene	56-55-3		U	222	111
Benzo(a)pyrene	50-32-8		U	222	111
Benzo(b)fluoranthene	205-99-2		U	222	111
Benzo(g,h,i)Perylene	191-24-2		U	222	111
Benzo(k)fluoranthene	207-08-9		U	222	111
Bis(2-Chloroethoxy)Methane	111-91-1		U	222	111
Bis(2-Chloroethyl)ether	111-44-4		U	222	111
bis(2-Chloroisopropyl)ether	108-60-1		U	222	111
bis(2-Ethylhexyl)phthalate	117-81-7		U	222	111
Butyl benzyl phthalate	85-68-7		U	222	111
Carbazole	86-74-8		U	222	111
Chrysene	218-01-9		U	222	111
Dibenz(a,h)anthracene	53-70-3		U	222	111
Dibenzofuran	132-64-9		U	222	111
Diethyl phthalate	84-66-2		U	222	111
Dimethyl phthalate	131-11-3		U	222	111
Di-N-Butylphthalate	84-74-2		U	222	111
Di-n-octyl phthalate	117-84-0		U	222	111
Fluoranthene	206-44-0		U	222	111
Fluorene	86-73-7		U	222	111
Hexachlorobenzene	118-74-1		U	222	111
Hexachlorobutadiene	87-68-3		U	222	111
Hexachlorocyclopentadiene	77-47-4		U	222	111
Hexachloroethane	67-72-1		U	222	111
Indeno(1,2,3-cd)pyrene	193-39-5		U	222	111
Isophorone	78-59-1		U	222	111
Naphthalene	91-20-3		U	222	111
Nitrobenzene	98-95-3		U	222	111
N-Nitrosodiphenylamine	86-30-6		U	222	111
N-Nitrosodipropylamine	621-64-7		U	222	111
Pentachlorophenol	87-86-5		U	1110	554
Phenanthrene	85-01-8		U	222	111

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT6-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 18:26
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	12M27866
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	222	111
Pyrene	129-00-0		U	222	111

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	25.3	19	122	
2-Fluorobiphenyl	35.2	30	115	
2-Fluorophenol	37.1	25	121	
Nitrobenzene-d5	43.2	23	120	
p-Terphenyl-d14	53.1	18	137	
Phenol-d5	39.8	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-05**
Client ID: **TEST PIT8-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 15:40**
Sample Tag: **REDL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 18:47**
File ID: **12M27965**
Percent Solid: **88.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	426	213
2,4,5-Trichlorophenol	95-95-4		U	426	213
2,4,6-Trichlorophenol	88-06-2		U	426	213
2,4-Dichlorophenol	120-83-2		U	426	213
2,4-Dimethylphenol	105-67-9		U	426	213
2,4-Dinitrophenol	51-28-5		U	2130	1060
2,4-Dinitrotoluene	121-14-2		U	426	213
2,6-Dinitrotoluene	606-20-2		U	426	213
2-Chloronaphthalene	91-58-7		U	426	213
2-Chlorophenol	95-57-8		U	426	213
2-Methylnaphthalene	91-57-6		U	426	213
2-Methylphenol	95-48-7		U	426	213
2-Nitroaniline	88-74-4		U	2130	1060
2-Nitrophenol	88-75-5		U	426	213
3,3'-Dichlorobenzidine	91-94-1		U	852	426
3-,4-Methylphenol	106-44-5		U	426	213
3-Nitroaniline	99-09-2		U	2130	1060
4,6-Dinitro-2-methylphenol	534-52-1		U	2130	1060
4-Bromophenyl phenyl ether	101-55-3		U	426	213
4-Chloro-3-methylphenol	59-50-7		U	426	213
4-Chloroaniline	106-47-8		U	426	213
4-Chlorophenyl phenyl ether	7005-72-3		U	426	213
4-Nitroaniline	100-01-6		U	2130	1060
4-Nitrophenol	100-02-7		U	2130	1060
Acenaphthene	83-32-9		U	426	213
Acenaphthylene	208-96-8		U	426	213
Anthracene	120-12-7		U	426	213
Benzo(a)anthracene	56-55-3		U	426	213
Benzo(a)pyrene	50-32-8		U	426	213
Benzo(b)fluoranthene	205-99-2		U	426	213
Benzo(g,h,i)Perylene	191-24-2		U	426	213
Benzo(k)fluoranthene	207-08-9		U	426	213
Bis(2-Chloroethoxy)Methane	111-91-1		U	426	213
Bis(2-Chloroethyl)ether	111-44-4		U	426	213
bis(2-Chloroisopropyl)ether	108-60-1		U	426	213
bis(2-Ethylhexyl)phthalate	117-81-7		U	426	213
Butyl benzyl phthalate	85-68-7		U	426	213
Carbazole	86-74-8		U	426	213
Chrysene	218-01-9		U	426	213
Dibenz(a,h)anthracene	53-70-3		U	426	213
Dibenzofuran	132-64-9		U	426	213
Diethyl phthalate	84-66-2		U	426	213
Dimethyl phthalate	131-11-3		U	426	213
Di-N-Butylphthalate	84-74-2		U	426	213
Di-n-octyl phthalate	117-84-0		U	426	213
Fluoranthene	206-44-0		U	426	213
Fluorene	86-73-7		U	426	213
Hexachlorobenzene	118-74-1		U	426	213
Hexachlorobutadiene	87-68-3		U	426	213
Hexachlorocyclopentadiene	77-47-4		U	426	213
Hexachloroethane	67-72-1		U	426	213
Indeno(1,2,3-cd)pyrene	193-39-5		U	426	213
Isophorone	78-59-1		U	426	213
Naphthalene	91-20-3		U	426	213
Nitrobenzene	98-95-3		U	426	213
N-Nitrosodiphenylamine	86-30-6		U	426	213
N-Nitrosodipropylamine	621-64-7		U	426	213
Pentachlorophenol	87-86-5		U	2130	1060
Phenanthrene	85-01-8		U	426	213

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT8-WS-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 18:47
Collect Date:	11/04/2009 15:40	Dilution:	2	File ID:	12M27965
Sample Tag:	REDL01	Units:	ug/kg	Percent Solid:	88.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	426	213
Pyrene	129-00-0		U	426	213

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	47.5	19	122	
2-Fluorobiphenyl	56.8	30	115	
2-Fluorophenol	49.2	25	121	
Nitrobenzene-d5	52.9	23	120	
p-Terphenyl-d14	70.9	18	137	
Phenol-d5	52.0	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-05**
Client ID: **TEST PIT8-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 15:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 20:05**
File ID: **12M27869**
Percent Solid: **88.4**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	420	210
2,4,5-Trichlorophenol	95-95-4		U	420	210
2,4,6-Trichlorophenol	88-06-2		U	420	210
2,4-Dichlorophenol	120-83-2		U	420	210
2,4-Dimethylphenol	105-67-9		U	420	210
2,4-Dinitrophenol	51-28-5		U	2100	1050
2,4-Dinitrotoluene	121-14-2		U	420	210
2,6-Dinitrotoluene	606-20-2		U	420	210
2-Chloronaphthalene	91-58-7		U	420	210
2-Chlorophenol	95-57-8		U	420	210
2-Methylnaphthalene	91-57-6		U	420	210
2-Methylphenol	95-48-7		U	420	210
2-Nitroaniline	88-74-4		U	2100	1050
2-Nitrophenol	88-75-5		U	420	210
3,3'-Dichlorobenzidine	91-94-1		U	840	420
3-,4-Methylphenol	106-44-5		U	420	210
3-Nitroaniline	99-09-2		U	2100	1050
4,6-Dinitro-2-methylphenol	534-52-1		U	2100	1050
4-Bromophenyl phenyl ether	101-55-3		U	420	210
4-Chloro-3-methylphenol	59-50-7		U	420	210
4-Chloroaniline	106-47-8		U	420	210
4-Chlorophenyl phenyl ether	7005-72-3		U	420	210
4-Nitroaniline	100-01-6		U	2100	1050
4-Nitrophenol	100-02-7		U	2100	1050
Acenaphthene	83-32-9		U	420	210
Acenaphthylene	208-96-8		U	420	210
Anthracene	120-12-7		U	420	210
Benzo(a)anthracene	56-55-3		U	420	210
Benzo(a)pyrene	50-32-8		U	420	210
Benzo(b)fluoranthene	205-99-2		U	420	210
Benzo(g,h,i)Perylene	191-24-2		U	420	210
Benzo(k)fluoranthene	207-08-9		U	420	210
Bis(2-Chloroethoxy)Methane	111-91-1		U	420	210
Bis(2-Chloroethyl)ether	111-44-4		U	420	210
bis(2-Chloroisopropyl)ether	108-60-1		U	420	210
bis(2-Ethylhexyl)phthalate	117-81-7		U	420	210
Butyl benzyl phthalate	85-68-7		U	420	210
Carbazole	86-74-8		U	420	210
Chrysene	218-01-9		U	420	210
Dibenz(a,h)anthracene	53-70-3		U	420	210
Dibenzofuran	132-64-9		U	420	210
Diethyl phthalate	84-66-2		U	420	210
Dimethyl phthalate	131-11-3		U	420	210
Di-N-Butylphthalate	84-74-2		U	420	210
Di-n-octyl phthalate	117-84-0		U	420	210
Fluoranthene	206-44-0		U	420	210
Fluorene	86-73-7		U	420	210
Hexachlorobenzene	118-74-1		U	420	210
Hexachlorobutadiene	87-68-3		U	420	210
Hexachlorocyclopentadiene	77-47-4		U	420	210
Hexachloroethane	67-72-1		U	420	210
Indeno(1,2,3-cd)pyrene	193-39-5		U	420	210
Isophorone	78-59-1		U	420	210
Naphthalene	91-20-3		U	420	210
Nitrobenzene	98-95-3		U	420	210
N-Nitrosodiphenylamine	86-30-6		U	420	210
N-Nitrosodipropylamine	621-64-7		U	420	210
Pentachlorophenol	87-86-5		U	2100	1050
Phenanthrene	85-01-8		U	420	210

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT8-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 20:05
Collect Date:	11/04/2009 15:40	Dilution:	2	File ID:	12M27869
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	88.4

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	420	210
Pyrene	129-00-0		U	420	210

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	19.5	19	122	
2-Fluorobiphenyl	28.3	30	115	*
2-Fluorophenol	25.2	25	121	
Nitrobenzene-d5	33.1	23	120	
p-Terphenyl-d14	56.3	18	137	
Phenol-d5	30.8	24	113	

***** Surrogate or spike compound out of range
U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-06**
Client ID: **TEST PIT8-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316951**
Collect Date: **11/04/2009 15:50**
Sample Tag: **RE1**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **MDC**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/09/2009 11:30**
Cal Date: **11/08/2009 23:08**
Run Date: **11/10/2009 16:36**
File ID: **12M27961**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	196	97.8
2,4,5-Trichlorophenol	95-95-4		U	196	97.8
2,4,6-Trichlorophenol	88-06-2		U	196	97.8
2,4-Dichlorophenol	120-83-2		U	196	97.8
2,4-Dimethylphenol	105-67-9		U	196	97.8
2,4-Dinitrophenol	51-28-5		U	978	489
2,4-Dinitrotoluene	121-14-2		U	196	97.8
2,6-Dinitrotoluene	606-20-2		U	196	97.8
2-Chloronaphthalene	91-58-7		U	196	97.8
2-Chlorophenol	95-57-8		U	196	97.8
2-Methylnaphthalene	91-57-6		U	196	97.8
2-Methylphenol	95-48-7		U	196	97.8
2-Nitroaniline	88-74-4		U	978	489
2-Nitrophenol	88-75-5		U	196	97.8
3,3'-Dichlorobenzidine	91-94-1		U	391	196
3-,4-Methylphenol	106-44-5		U	196	97.8
3-Nitroaniline	99-09-2		U	978	489
4,6-Dinitro-2-methylphenol	534-52-1		U	978	489
4-Bromophenyl phenyl ether	101-55-3		U	196	97.8
4-Chloro-3-methylphenol	59-50-7		U	196	97.8
4-Chloroaniline	106-47-8		U	196	97.8
4-Chlorophenyl phenyl ether	7005-72-3		U	196	97.8
4-Nitroaniline	100-01-6		U	978	489
4-Nitrophenol	100-02-7		U	978	489
Acenaphthene	83-32-9		U	196	97.8
Acenaphthylene	208-96-8		U	196	97.8
Anthracene	120-12-7		U	196	97.8
Benzo(a)anthracene	56-55-3		U	196	97.8
Benzo(a)pyrene	50-32-8		U	196	97.8
Benzo(b)fluoranthene	205-99-2		U	196	97.8
Benzo(g,h,i)Perylene	191-24-2		U	196	97.8
Benzo(k)fluoranthene	207-08-9		U	196	97.8
Bis(2-Chloroethoxy)Methane	111-91-1		U	196	97.8
Bis(2-Chloroethyl)ether	111-44-4		U	196	97.8
bis(2-Chloroisopropyl)ether	108-60-1		U	196	97.8
bis(2-Ethylhexyl)phthalate	117-81-7		U	196	97.8
Butyl benzyl phthalate	85-68-7		U	196	97.8
Carbazole	86-74-8		U	196	97.8
Chrysene	218-01-9		U	196	97.8
Dibenz(a,h)anthracene	53-70-3		U	196	97.8
Dibenzofuran	132-64-9		U	196	97.8
Diethyl phthalate	84-66-2		U	196	97.8
Dimethyl phthalate	131-11-3		U	196	97.8
Di-N-Butylphthalate	84-74-2		U	196	97.8
Di-n-octyl phthalate	117-84-0		U	196	97.8
Fluoranthene	206-44-0		U	196	97.8
Fluorene	86-73-7		U	196	97.8
Hexachlorobenzene	118-74-1		U	196	97.8
Hexachlorobutadiene	87-68-3		U	196	97.8
Hexachlorocyclopentadiene	77-47-4		U	196	97.8
Hexachloroethane	67-72-1		U	196	97.8
Indeno(1,2,3-cd)pyrene	193-39-5		U	196	97.8
Isophorone	78-59-1		U	196	97.8
Naphthalene	91-20-3		U	196	97.8
Nitrobenzene	98-95-3		U	196	97.8
N-Nitrosodiphenylamine	86-30-6		U	196	97.8
N-Nitrosodipropylamine	621-64-7		U	196	97.8
Pentachlorophenol	87-86-5		U	978	489
Phenanthrene	85-01-8		U	196	97.8

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT8-SO-110409	Prep Method:	3545	Prep Date:	11/09/2009 11:30
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	11/08/2009 23:08
Workgroup Number:	WG316951	Analyst:	MDC	Run Date:	11/10/2009 16:36
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	12M27961
Sample Tag:	RE1	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	196	97.8
Pyrene	129-00-0		U	196	97.8

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	59.7	19	122	
2-Fluorobiphenyl	44.9	30	115	
2-Fluorophenol	50.1	25	121	
Nitrobenzene-d5	42.5	23	120	
p-Terphenyl-d14	89.7	18	137	
Phenol-d5	46.2	24	113	

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-06**
Client ID: **TEST PIT8-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316754**
Collect Date: **11/04/2009 15:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA/MES**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS12**
Prep Date: **11/06/2009 08:15**
Cal Date: **10/31/2009 18:58**
Run Date: **11/06/2009 18:59**
File ID: **12M27867**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	210	105
2,4,5-Trichlorophenol	95-95-4		U	210	105
2,4,6-Trichlorophenol	88-06-2		U	210	105
2,4-Dichlorophenol	120-83-2		U	210	105
2,4-Dimethylphenol	105-67-9		U	210	105
2,4-Dinitrophenol	51-28-5		U	1050	523
2,4-Dinitrotoluene	121-14-2		U	210	105
2,6-Dinitrotoluene	606-20-2		U	210	105
2-Chloronaphthalene	91-58-7		U	210	105
2-Chlorophenol	95-57-8		U	210	105
2-Methylnaphthalene	91-57-6		U	210	105
2-Methylphenol	95-48-7		U	210	105
2-Nitroaniline	88-74-4		U	1050	523
2-Nitrophenol	88-75-5		U	210	105
3,3'-Dichlorobenzidine	91-94-1		U	419	210
3-,4-Methylphenol	106-44-5		U	210	105
3-Nitroaniline	99-09-2		U	1050	523
4,6-Dinitro-2-methylphenol	534-52-1		U	1050	523
4-Bromophenyl phenyl ether	101-55-3		U	210	105
4-Chloro-3-methylphenol	59-50-7		U	210	105
4-Chloroaniline	106-47-8		U	210	105
4-Chlorophenyl phenyl ether	7005-72-3		U	210	105
4-Nitroaniline	100-01-6		U	1050	523
4-Nitrophenol	100-02-7		U	1050	523
Acenaphthene	83-32-9		U	210	105
Acenaphthylene	208-96-8		U	210	105
Anthracene	120-12-7		U	210	105
Benzo(a)anthracene	56-55-3		U	210	105
Benzo(a)pyrene	50-32-8		U	210	105
Benzo(b)fluoranthene	205-99-2		U	210	105
Benzo(g,h,i)Perylene	191-24-2		U	210	105
Benzo(k)fluoranthene	207-08-9		U	210	105
Bis(2-Chloroethoxy)Methane	111-91-1		U	210	105
Bis(2-Chloroethyl)ether	111-44-4		U	210	105
bis(2-Chloroisopropyl)ether	108-60-1		U	210	105
bis(2-Ethylhexyl)phthalate	117-81-7		U	210	105
Butyl benzyl phthalate	85-68-7		U	210	105
Carbazole	86-74-8		U	210	105
Chrysene	218-01-9		U	210	105
Dibenz(a,h)anthracene	53-70-3		U	210	105
Dibenzofuran	132-64-9		U	210	105
Diethyl phthalate	84-66-2		U	210	105
Dimethyl phthalate	131-11-3		U	210	105
Di-N-Butylphthalate	84-74-2		U	210	105
Di-n-octyl phthalate	117-84-0		U	210	105
Fluoranthene	206-44-0		U	210	105
Fluorene	86-73-7		U	210	105
Hexachlorobenzene	118-74-1		U	210	105
Hexachlorobutadiene	87-68-3		U	210	105
Hexachlorocyclopentadiene	77-47-4		U	210	105
Hexachloroethane	67-72-1		U	210	105
Indeno(1,2,3-cd)pyrene	193-39-5		U	210	105
Isophorone	78-59-1		U	210	105
Naphthalene	91-20-3		U	210	105
Nitrobenzene	98-95-3		U	210	105
N-Nitrosodiphenylamine	86-30-6		U	210	105
N-Nitrosodipropylamine	621-64-7		U	210	105
Pentachlorophenol	87-86-5		U	1050	523
Phenanthrene	85-01-8		U	210	105

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	HPMS12
Client ID:	TEST PIT8-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:15
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	10/31/2009 18:58
Workgroup Number:	WG316754	Analyst:	CAA/MES	Run Date:	11/06/2009 18:59
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	12M27867
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Phenol	108-95-2		U	210	105
Pyrene	129-00-0		U	210	105

Surrogate	% Recovery	Lower	Upper	Qual
2,4,6-Tribromophenol	37.5	19	122	
2-Fluorobiphenyl	39.3	30	115	
2-Fluorophenol	49.0	25	121	
Nitrobenzene-d5	44.4	23	120	
p-Terphenyl-d14	56.0	18	137	
Phenol-d5	48.1	24	113	

U Not detected at or above the reporting limit (RL).

2.2.1.2 QC Summary Data

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316754
Blank File ID: 12M27858
Blank Sample ID: WG316671-01
Prep Date: 11/06/09 08:15
Instrument ID: HPMS12
Analyzed Date: 11/06/09 13:58
Method: 8270C
Analyst: CAA/MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316671-02	12M27859	11/06/09 14:32	01
LCS2	WG316671-03	12M27860	11/06/09 15:06	01
TEST PIT5-WS-110409	L09110114-01	12M27864	11/06/09 17:20	01
TEST PIT5-SO-110409	L09110114-02	12M27865	11/06/09 17:53	01
TEST PIT6-SO-110409	L09110114-04	12M27866	11/06/09 18:26	01
TEST PIT8-SO-110409	L09110114-06	12M27867	11/06/09 18:59	01
TEST PIT6-WS-110409	L09110114-03	12M27868	11/06/09 19:32	DL01
TEST PIT8-WS-110409	L09110114-05	12M27869	11/06/09 20:05	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1538010
Report generated 11/11/2009 16:13

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316951
Blank File ID: 12M27956
Blank Sample ID: WG316912-01
Prep Date: 11/09/09 11:30
Instrument ID: HPMS12
Analyzed Date: 11/10/09 13:50
Method: 8270C
Analyst: MDC

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316912-02	12M27957	11/10/09 14:23	01
LCS2	WG316912-03	12M27958	11/10/09 14:57	01
TEST PIT5-SO-110409	L09110114-02	12M27960	11/10/09 16:03	RE1
TEST PIT8-SO-110409	L09110114-06	12M27961	11/10/09 16:36	RE1
TEST PIT6-SO-110409	L09110114-04	12M27962	11/10/09 17:09	RE1
TEST PIT5-WS-110409	L09110114-01	12M27963	11/10/09 17:41	RE1
TEST PIT6-WS-110409	L09110114-03	12M27964	11/10/09 18:14	REDL01
TEST PIT8-WS-110409	L09110114-05	12M27965	11/10/09 18:47	REDL01

Report Name: BLANK_SUMMARY
PDF File ID: 1538010
Report generated 11/11/2009 16:13

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L09110114 Prep Date:11/06/09 08:15 Sample ID:WG316671-01
Instrument ID:HPMS12 Run Date:11/06/09 13:58 Prep Method:3545
File ID:12M27858 Analyst:CAA/MES Method:8270C
Workgroup (AAB#):WG316754 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-31-OCT-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,4-Dioxane	82.5	165	165	1	U
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
PDF ID: 1533945
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L09110114 Prep Date:11/06/09 08:15 Sample ID:WG316671-01
Instrument ID:HPMS12 Run Date:11/06/09 13:58 Prep Method:3545
File ID:12M27858 Analyst:CAA/MES Method:8270C
Workgroup (AAB#):WG316754 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-31-OCT-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Dimethyl phthalate	82.5	165	165	1	U
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
2,4,6-Tribromophenol	54.5	19	-	122	PASS
2-Fluorobiphenyl	44.8	30	-	115	PASS
2-Fluorophenol	54.1	25	-	121	PASS
Nitrobenzene-d5	49.4	23	-	120	PASS
p-Terphenyl-d14	74.0	18	-	137	PASS
Phenol-d5	51.1	24	-	113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1533945
11-NOV-2009 16:13

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L09110114 Prep Date:11/09/09 11:30 Sample ID:WG316912-01
Instrument ID:HPMS12 Run Date:11/10/09 13:50 Prep Method:3545
File ID:12M27956 Analyst:MDC Method:8270C
Workgroup (AAB#):WG316951 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-08-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,4-Dioxane	82.5	165	165	1	U
2,4,5-Trichlorophenol	82.5	165	165	1	U
2,4,6-Trichlorophenol	82.5	165	165	1	U
2,4-Dichlorophenol	82.5	165	165	1	U
2,4-Dimethylphenol	82.5	165	165	1	U
2,4-Dinitrophenol	412	825	825	1	U
2,4-Dinitrotoluene	82.5	165	165	1	U
2,6-Dinitrotoluene	82.5	165	165	1	U
2-Chloronaphthalene	82.5	165	165	1	U
2-Chlorophenol	82.5	165	165	1	U
2-Methylnaphthalene	82.5	165	165	1	U
2-Methylphenol	82.5	165	165	1	U
2-Nitroaniline	412	825	825	1	U
2-Nitrophenol	82.5	165	165	1	U
3,3'-Dichlorobenzidine	165	330	330	1	U
3-,4-Methylphenol	82.5	165	165	1	U
3-Nitroaniline	412	825	825	1	U
4,6-Dinitro-2-methylphenol	412	825	825	1	U
4-Bromophenyl phenyl ether	82.5	165	165	1	U
4-Chloro-3-methylphenol	82.5	165	165	1	U
4-Chloroaniline	82.5	165	165	1	U
4-Chlorophenyl phenyl ether	82.5	165	165	1	U
4-Nitroaniline	412	825	825	1	U
4-Nitrophenol	412	825	825	1	U
Acenaphthene	82.5	165	165	1	U
Acenaphthylene	82.5	165	165	1	U
Anthracene	82.5	165	165	1	U
Benzo(a)anthracene	82.5	165	165	1	U
Benzo(a)pyrene	82.5	165	165	1	U
Benzo(b)fluoranthene	82.5	165	165	1	U
Benzo(g,h,i)Perylene	82.5	165	165	1	U
Benzo(k)fluoranthene	82.5	165	165	1	U
Bis(2-Chloroethoxy)Methane	82.5	165	165	1	U
Bis(2-Chloroethyl)ether	82.5	165	165	1	U
bis(2-Chloroisopropyl)ether	82.5	165	165	1	U
bis(2-Ethylhexyl)phthalate	82.5	165	165	1	U
Butyl benzyl phthalate	82.5	165	165	1	U
Carbazole	82.5	165	165	1	U
Chrysene	82.5	165	165	1	U
Dibenz(a,h)anthracene	82.5	165	165	1	U
Dibenzofuran	82.5	165	165	1	U
Diethyl phthalate	82.5	165	165	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L09110114 Prep Date:11/09/09 11:30 Sample ID:WG316912-01
Instrument ID:HPMS12 Run Date:11/10/09 13:50 Prep Method:3545
File ID:12M27956 Analyst:MDC Method:8270C
Workgroup (AAB#):WG316951 Matrix:Soil Units:ug/kg
Contract #: Cal ID:HPMS12-08-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Dimethyl phthalate	82.5	165	165	1	U
Di-N-Butylphthalate	82.5	165	165	1	U
Di-n-octyl phthalate	82.5	165	165	1	U
Fluoranthene	82.5	165	165	1	U
Fluorene	82.5	165	165	1	U
Hexachlorobenzene	82.5	165	165	1	U
Hexachlorobutadiene	82.5	165	165	1	U
Hexachlorocyclopentadiene	82.5	165	165	1	U
Hexachloroethane	82.5	165	165	1	U
Indeno(1,2,3-cd)pyrene	82.5	165	165	1	U
Isophorone	82.5	165	165	1	U
Naphthalene	82.5	165	165	1	U
Nitrobenzene	82.5	165	165	1	U
N-Nitrosodiphenylamine	82.5	165	165	1	U
N-Nitrosodipropylamine	82.5	165	165	1	U
Pentachlorophenol	412	825	825	1	U
Phenanthrene	82.5	165	165	1	U
Phenol	82.5	165	165	1	U
Pyrene	82.5	165	165	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
2,4,6-Tribromophenol	57.0	19 - 122	PASS
2-Fluorobiphenyl	54.2	30 - 115	PASS
2-Fluorophenol	57.8	25 - 121	PASS
Nitrobenzene-d5	40.9	23 - 120	PASS
p-Terphenyl-d14	78.4	18 - 137	PASS
Phenol-d5	54.5	24 - 113	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1533945
11-NOV-2009 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number:L09110114 Analyst:CAA/MES Prep Method:3545
Instrument ID:HPMS12 Matrix:Soil Method:8270C
Workgroup (AAB#):WG316754 Units:ug/kg
QC Key:DOWWV2006 Lot #:STD35739

Sample ID:WG316671-02 LCS File ID:12M27859 Run Date:11/06/2009 14:32
Sample ID:WG316671-03 LCS2 File ID:12M27860 Run Date:11/06/2009 15:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,4-Dioxane	2500	1030	41.2	2500	1020	40.6	1.33	40 - 140	40	
2,4,5-Trichlorophenol	2500	1410	56.4	2500	1220	48.8	14.4	49 - 125	30	*
2,4,6-Trichlorophenol	2500	1250	50.1	2500	1110	44.4	12.1	43 - 125	30	
2,4-Dichlorophenol	2500	1120	44.6	2500	1050	42.1	5.71	45 - 125	30	*
2,4-Dimethylphenol	2500	1170	46.8	2500	1120	44.7	4.61	32 - 125	30	
2,4-Dinitrophenol	2500	1230	49.3	2500	1450	58.0	16.1	25 - 132	30	
2,4-Dinitrotoluene	2500	1550	62.0	2500	1510	60.3	2.73	48 - 125	30	
2,6-Dinitrotoluene	2500	1490	59.4	2500	1370	54.7	8.28	48 - 125	30	
2-Chloronaphthalene	2500	957	38.3	2500	904	36.1	5.78	45 - 125	30	*
2-Chlorophenol	2500	1080	43.3	2500	1070	42.9	0.762	44 - 125	30	*
2-Methylnaphthalene	2500	1090	43.5	2500	1050	41.9	3.85	47 - 125	30	*
2-Methylphenol	2500	1090	43.6	2500	1090	43.5	0.306	40 - 125	30	
2-Nitroaniline	2500	1530	61.2	2500	1380	55.2	10.3	44 - 125	30	
2-Nitrophenol	2500	1130	45.1	2500	1110	44.4	1.56	42 - 125	30	
3,3'-Dichlorobenzidine	2500	1800	71.8	2500	1780	71.2	0.817	20 - 128	30	
3-,4-Methylphenol	2500	1100	43.8	2500	1070	42.6	2.73	50 - 120	30	*
3-Nitroaniline	2500	1590	63.8	2500	1480	59.2	7.40	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	1390	55.7	2500	1520	60.7	8.55	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1480	59.4	2500	1350	54.1	9.33	46 - 125	30	
4-Chloro-3-methylphenol	2500	1310	52.4	2500	1160	46.5	11.9	46 - 125	30	
4-Chloroaniline	2500	1040	41.5	2500	988	39.5	4.84	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1230	49.3	2500	1130	45.1	8.84	47 - 125	30	*
4-Nitroaniline	2500	1460	58.4	2500	1380	55.3	5.51	34 - 125	30	
4-Nitrophenol	2500	1690	67.6	2500	1670	66.9	1.01	25 - 138	30	
Acenaphthene	2500	1150	46.1	2500	1110	44.5	3.33	46 - 125	30	*
Acenaphthylene	2500	1170	46.9	2500	1100	43.9	6.59	44 - 125	30	*
Anthracene	2500	1750	70.0	2500	1680	67.3	3.84	53 - 125	30	
Benzo(a)anthracene	2500	1890	75.6	2500	1850	74.2	1.92	52 - 125	30	
Benzo(a)pyrene	2500	1820	72.8	2500	1790	71.4	1.91	50 - 125	30	
Benzo(b)fluoranthene	2500	1740	69.5	2500	1610	64.2	7.90	45 - 125	30	
Benzo(g,h,i)Perylene	2500	1780	71.3	2500	1740	69.5	2.53	38 - 126	30	
Benzo(k)fluoranthene	2500	1800	72.2	2500	1920	76.9	6.31	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	725	29.0	2500	706	28.2	2.63	43 - 125	30	*
Bis(2-Chloroethyl)ether	2500	1120	44.8	2500	1100	44.0	1.87	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1310	52.5	2500	1250	50.0	4.90	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1970	78.6	2500	1870	74.8	5.04	47 - 127	30	
Butyl benzyl phthalate	2500	2030	81.4	2500	2010	80.4	1.19	49 - 125	30	
Carbazole	2500	1720	68.8	2500	1650	66.1	4.12	40 - 135	30	
Chrysene	2500	1890	75.5	2500	1870	74.9	0.749	53 - 125	30	
Dibenz(a,h)anthracene	2500	1730	69.2	2500	1720	68.7	0.820	41 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1533946
Report generated: 11/11/2009 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: CAA/MES Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG316754 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD35739

Sample ID: WG316671-02 LCS File ID: 12M27859 Run Date: 11/06/2009 14:32
Sample ID: WG316671-03 LCS2 File ID: 12M27860 Run Date: 11/06/2009 15:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Dibenzofuran	2500	1270	50.9	2500	1180	47.0	7.96	51 - 125	30	*
Diethyl phthalate	2500	1650	66.0	2500	1520	60.9	8.17	50 - 125	30	
Dimethyl phthalate	2500	1450	57.9	2500	1320	52.8	9.25	49 - 125	30	
Di-N-Butylphthalate	2500	1840	73.5	2500	1740	69.8	5.26	56 - 125	30	
Di-n-octyl phthalate	2500	2010	80.3	2500	1940	77.7	3.27	41 - 132	30	
Fluoranthene	2500	1930	77.4	2500	1890	75.5	2.39	54 - 125	30	
Fluorene	2500	1330	53.3	2500	1220	48.6	9.05	49 - 125	30	*
Hexachlorobenzene	2500	1600	64.0	2500	1480	59.2	7.85	47 - 125	30	
Hexachlorobutadiene	2500	1190	47.8	2500	1150	46.1	3.56	40 - 125	30	
Hexachlorocyclopentadiene	2500	431	17.3	2500	492	19.7	13.2	10 - 150	30	
Hexachloroethane	2500	1020	41.0	2500	1030	41.2	0.472	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	1750	70.1	2500	1730	69.1	1.37	38 - 125	30	
Isophorone	2500	1060	42.6	2500	988	39.5	7.42	43 - 125	30	*
Naphthalene	2500	1060	42.5	2500	1040	41.7	1.82	40 - 125	30	
Nitrobenzene	2500	1160	46.4	2500	1120	44.7	3.81	41 - 125	30	
N-Nitrosodiphenylamine	2500	1600	63.8	2500	1500	60.0	6.13	49 - 125	30	
N-Nitrosodipropylamine	2500	1070	42.6	2500	1050	41.9	1.78	40 - 125	30	
Pentachlorophenol	2500	1400	56.2	2500	1530	61.2	8.57	25 - 125	30	
Phenanthrene	2500	1700	68.0	2500	1640	65.6	3.60	50 - 125	30	
Phenol	2500	1090	43.8	2500	1070	42.7	2.54	39 - 125	30	
Pyrene	2500	1850	74.2	2500	1800	72.1	2.80	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,6-Tribromophenol	57.1	54.1	19 - 122	PASS
2-Fluorobiphenyl	42.9	38.5	30 - 115	PASS
2-Fluorophenol	46.6	45.4	25 - 121	PASS
Nitrobenzene-d5	44.4	42.0	23 - 120	PASS
p-Terphenyl-d14	76.7	70.2	18 - 137	PASS
Phenol-d5	45.1	44.1	24 - 113	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1533946
Report generated: 11/11/2009 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: MDC Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG316951 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD35739

Sample ID: WG316912-02 LCS File ID: 12M27957 Run Date: 11/10/2009 14:23
Sample ID: WG316912-03 LCS2 File ID: 12M27958 Run Date: 11/10/2009 14:57

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,4-Dioxane	2500	1210	48.5	2500	1180	47.2	2.72	40 - 140	40	
2,4,5-Trichlorophenol	2500	1700	68.1	2500	1640	65.7	3.57	49 - 125	30	
2,4,6-Trichlorophenol	2500	1580	63.2	2500	1480	59.1	6.61	43 - 125	30	
2,4-Dichlorophenol	2500	1490	59.4	2500	1390	55.5	6.82	45 - 125	30	
2,4-Dimethylphenol	2500	1430	57.4	2500	1350	53.9	6.26	32 - 125	30	
2,4-Dinitrophenol	2500	1470	58.8	2500	1730	69.0	16.0	25 - 132	30	
2,4-Dinitrotoluene	2500	1770	71.0	2500	1810	72.3	1.94	48 - 125	30	
2,6-Dinitrotoluene	2500	1570	62.9	2500	1580	63.0	0.128	48 - 125	30	
2-Chloronaphthalene	2500	1300	52.0	2500	1190	47.7	8.72	45 - 125	30	
2-Chlorophenol	2500	1350	54.2	2500	1280	51.1	5.89	44 - 125	30	
2-Methylnaphthalene	2500	1470	58.6	2500	1380	55.0	6.36	47 - 125	30	
2-Methylphenol	2500	1390	55.7	2500	1310	52.3	6.32	40 - 125	30	
2-Nitroaniline	2500	988	39.5	2500	1200	48.0	19.4	44 - 125	30	*
2-Nitrophenol	2500	1230	49.3	2500	1250	50.1	1.58	42 - 125	30	
3,3'-Dichlorobenzidine	2500	650	26.0	2500	1190	47.6	58.6	20 - 128	30	#
3-,4-Methylphenol	2500	1340	53.5	2500	1250	49.9	6.83	50 - 120	30	*
3-Nitroaniline	2500	1420	56.9	2500	1590	63.7	11.4	27 - 125	30	
4,6-Dinitro-2-methylphenol	2500	1440	57.5	2500	1650	66.0	13.8	29 - 137	30	
4-Bromophenyl phenyl ether	2500	1790	71.4	2500	1690	67.5	5.57	46 - 125	30	
4-Chloro-3-methylphenol	2500	1490	59.6	2500	1450	57.8	3.03	46 - 125	30	
4-Chloroaniline	2500	1230	49.3	2500	1220	48.8	1.00	20 - 120	30	
4-Chlorophenyl phenyl ether	2500	1580	63.1	2500	1510	60.6	4.07	47 - 125	30	
4-Nitroaniline	2500	1200	48.1	2500	1460	58.6	19.8	34 - 125	30	
4-Nitrophenol	2500	1650	65.9	2500	1710	68.6	3.93	25 - 138	30	
Acenaphthene	2500	1540	61.6	2500	1450	58.1	5.75	46 - 125	30	
Acenaphthylene	2500	1550	62.1	2500	1450	57.9	7.00	44 - 125	30	
Anthracene	2500	2080	83.2	2500	2020	80.8	2.86	53 - 125	30	
Benzo(a)anthracene	2500	2220	88.9	2500	2220	88.7	0.194	52 - 125	30	
Benzo(a)pyrene	2500	2220	88.9	2500	2200	87.9	1.11	50 - 125	30	
Benzo(b)fluoranthene	2500	2010	80.4	2500	1890	75.5	6.29	45 - 125	30	
Benzo(g,h,i)Perylene	2500	2180	87.2	2500	2170	86.8	0.396	38 - 126	30	
Benzo(k)fluoranthene	2500	2330	93.3	2500	2210	88.3	5.56	45 - 125	30	
Bis(2-Chloroethoxy)Methane	2500	997	39.9	2500	931	37.2	6.82	43 - 125	30	*
Bis(2-Chloroethyl)ether	2500	1320	52.8	2500	1220	48.9	7.69	38 - 125	30	
bis(2-Chloroisopropyl)ether	2500	1390	55.5	2500	1240	49.7	11.0	25 - 125	30	
bis(2-Ethylhexyl)phthalate	2500	1070	42.7	2500	1380	55.1	25.4	47 - 127	30	*
Butyl benzyl phthalate	2500	1110	44.5	2500	1400	56.0	22.9	49 - 125	30	*
Carbazole	2500	1970	78.9	2500	1950	77.9	1.22	40 - 135	30	
Chrysene	2500	2240	89.5	2500	2240	89.5	0.0259	53 - 125	30	
Dibenz(a,h)anthracene	2500	2130	85.2	2500	2180	87.0	2.10	41 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1533946
Report generated: 11/11/2009 16:13

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Analyst: MDC Prep Method: 3545
Instrument ID: HPMS12 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG316951 Units: ug/kg
QC Key: DOWWV2006 Lot #: STD35739

Sample ID: WG316912-02 LCS File ID: 12M27957 Run Date: 11/10/2009 14:23
Sample ID: WG316912-03 LCS2 File ID: 12M27958 Run Date: 11/10/2009 14:57

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Dibenzofuran	2500	1610	64.3	2500	1510	60.3	6.40	51 - 125	30	
Diethyl phthalate	2500	1790	71.4	2500	1770	70.9	0.670	50 - 125	30	
Dimethyl phthalate	2500	1680	67.1	2500	1620	64.7	3.68	49 - 125	30	
Di-N-Butylphthalate	2500	1630	65.1	2500	1810	72.4	10.5	56 - 125	30	
Di-n-octyl phthalate	2500	1030	41.4	2500	1340	53.8	26.0	41 - 132	30	
Fluoranthene	2500	2360	94.5	2500	2290	91.6	3.15	54 - 125	30	
Fluorene	2500	1660	66.3	2500	1600	64.1	3.38	49 - 125	30	
Hexachlorobenzene	2500	1900	75.9	2500	1820	72.7	4.21	47 - 125	30	
Hexachlorobutadiene	2500	1610	64.6	2500	1520	60.7	6.12	40 - 125	30	
Hexachlorocyclopentadiene	2500	1240	49.7	2500	1240	49.6	0.163	10 - 150	30	
Hexachloroethane	2500	1340	53.5	2500	1210	48.5	9.90	34 - 125	30	
Indeno(1,2,3-cd)pyrene	2500	2190	87.6	2500	2200	87.8	0.281	38 - 125	30	
Isophorone	2500	1370	54.6	2500	1260	50.3	8.29	43 - 125	30	
Naphthalene	2500	1420	56.7	2500	1340	53.5	5.69	40 - 125	30	
Nitrobenzene	2500	1350	53.8	2500	1290	51.6	4.30	41 - 125	30	
N-Nitrosodiphenylamine	2500	1770	70.8	2500	1760	70.5	0.416	49 - 125	30	
N-Nitrosodipropylamine	2500	854	34.2	2500	981	39.2	13.8	40 - 125	30	*
Pentachlorophenol	2500	2280	91.1	2500	2370	94.8	3.97	25 - 125	30	
Phenanthrene	2500	2030	81.1	2500	1960	78.5	3.23	50 - 125	30	
Phenol	2500	1360	54.5	2500	1290	51.4	5.79	39 - 125	30	
Pyrene	2500	2230	89.1	2500	2200	88.0	1.24	46 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
2,4,6-Tribromophenol	75.3	75.9	19 - 122	PASS
2-Fluorobiphenyl	57.8	52.5	30 - 115	PASS
2-Fluorophenol	57.4	54.9	25 - 121	PASS
Nitrobenzene-d5	48.6	47.7	23 - 120	PASS
p-Terphenyl-d14	86.9	79.4	18 - 137	PASS
Phenol-d5	56.7	53.0	24 - 113	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1533946
Report generated: 11/11/2009 16:13

2.2.2 Semivolatiles GC/MS Data (8270 Dioxane)

2.2.2.1 Summary Data

Loginnum: L09110114

Department: Semivolatiles

Analyst: Cassie A. Augenstein

METHOD

Preparation 3545

Analysis SW-846 8270C SIM

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that 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: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with the SIM 1,4-dioxane analysis of this sample delivery group.

SAMPLES

Samples: Samples 03 and 05 were run at a dilution due to extract appearance.

Internal Standards: All acceptance criteria were met.

Surrogates: Not applicable.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

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

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	8270C	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	8270C	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	8270C	2	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	8270C	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	8270C	2	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	8270C	1	05-NOV-09

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-01	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT5-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 19:59
Collect Date:	11/04/2009 09:45	Dilution:	1	File ID:	15M01294
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	124	61.8

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-02	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT5-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 15:58
Collect Date:	11/04/2009 09:55	Dilution:	1	File ID:	15M01285
Sample Tag:	01	Units:	ug/kg	Percent Solid:	83.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	139	69.6

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT6-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 22:11
Collect Date:	11/04/2009 11:30	Dilution:	2	File ID:	15M01299
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	78.5

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	295	147

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT6-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 16:53
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	15M01287
Sample Tag:	01	Units:	ug/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	134	67.2

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT8-WS-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 23:31
Collect Date:	11/04/2009 15:40	Dilution:	2	File ID:	15M01302
Sample Tag:	DL01	Units:	ug/kg	Percent Solid:	88.4

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	255	127

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	HPMS15
Client ID:	TEST PIT8-SO-110409	Prep Method:	3545	Prep Date:	11/06/2009 08:16
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	07/01/2009 09:43
Workgroup Number:	WG316755	Analyst:	CAA	Run Date:	11/06/2009 16:25
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	15M01286
Sample Tag:	01	Units:	ug/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
1,4-Dioxane	123-91-1		U	127	63.5

U Not detected at or above the reporting limit (RL).

2.2.2.2 QC Summary Data

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316755
Blank File ID: 15M01283
Blank Sample ID: WG316672-01
Prep Date: 11/06/09 08:16
Instrument ID: HPMS15
Analyzed Date: 11/06/09 15:04
Method: 8270C
Analyst: CAA

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316672-02	15M01284	11/06/09 15:31	01
TEST PIT5-SO-110409	L09110114-02	15M01285	11/06/09 15:58	01
TEST PIT8-SO-110409	L09110114-06	15M01286	11/06/09 16:25	01
TEST PIT6-SO-110409	L09110114-04	15M01287	11/06/09 16:53	01
TEST PIT5-WS-110409	L09110114-01	15M01294	11/06/09 19:59	01
TEST PIT6-WS-110409	L09110114-03	15M01299	11/06/09 22:11	DL01
TEST PIT8-WS-110409	L09110114-05	15M01302	11/06/09 23:31	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1535727
Report generated 11/10/2009 09:46

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/06/09 08:16 Sample ID: WG316672-01
Instrument ID: HPMS15 Run Date: 11/06/09 15:04 Prep Method: 3545
File ID: 15M01283 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG316755 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS15-01-JUL-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
1,4-Dioxane	50.0	100	100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1534104
10-NOV-2009 09:46

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/06/2009 Sample ID: WG316672-02
Instrument ID: HPMS15 Run Time: 15:31 Prep Method: 3545
File ID: 15M01284 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG316755 Matrix: Soil Units: ug/kg
QC Key: DOWWV2006 Lot#: STD35738 Cal ID: HPMS15-01-JUL-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
1,4-Dioxane	250	133	53.0	40 - 140	

LCS - Modified 03/06/2008
PDF File ID: 1534105
Report generated: 11/10/2009 09:46

2.3 Metals Data

2.3.1 Metals I C P Data

2.3.1.1 Summary Data

Microbac Laboratories Inc.
METALS

Microbac Login No: L09110114

METHOD

Preparation: SW-846 3051/3015

Analysis: SW-846 6010

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.

Interference Check Samples: 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.

Serial Dilution/Post Digestion Spike: WG316791(6010) - All acceptance criteria were met.

WG316887(6010) - 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 Microbac Laboratories Inc., 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: EDA

Approved: 24-NOV-09
Maren Berry

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	6010B	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	6010B	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	6010B	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	6010B	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	6010B	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	6010B	1	05-NOV-09

Microbac Laboratories Inc.

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	**L09110114-01**	PrePrep Method:	**1311**	Instrument	**ICP-THERMO2**
Client ID:	**TEST PIT5-WS-110409**	Prep Method:	**3015**	Prep Date:	**11/09/2009 06:38**
Matrix:	**Leachate**	Analytical Method:	**6010B**	Cal Date:	**11/10/2009 12:03**
Workgroup Number:	**WG316887**	Analyst:	**EDA**	Run Date	**11/10/2009 13:12**
Collect Date:	**11/04/2009 09:45**	Dilution:	**1**	File ID:	**T2.111009.131206**
Sample Tag:	**01**	Units:	**mg/L**		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Arsenic, TCLP	7440-38-2		U	1	.1	D004	5
Barium, TCLP	7440-39-3	1.37		.1	.025	D005	100
Cadmium, TCLP	7440-43-9		U	.1	.025	D006	1
Chromium, TCLP	7440-47-3		U	.2	.025	D007	5
Lead, TCLP	7439-92-1		U	1	.1	D008	5
Selenium, TCLP	7782-49-2		U	.8	.4	D010	1
Silver, TCLP	7440-22-4		U	.1	.05	D011	5

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-02	PrePrep Method:	NONE	Instrument:	ICP-THERMO1
Client ID:	TEST PIT5-SO-110409	Prep Method:	3051A	Prep Date:	11/06/2009 07:59
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	11/09/2009 10:09
Workgroup Number:	WG316791	Analyst:	EDA	Run Date:	11/09/2009 13:21
Collect Date:	11/04/2009 09:55	Dilution:	1	File ID:	T1.110909.132105
Sample Tag:	01	Units:	mg/kg	Percent Solid:	83.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Barium, Total	7440-39-3	66.9		0.403	0.0805
Cadmium, Total	7440-43-9		U	0.403	0.0403
Chromium, Total	7440-47-3	9.35		0.805	0.0966
Lead, Total	7439-92-1	16.2		4.03	0.403
Silver, Total	7440-22-4		U	1.61	0.201

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	1311	Instrument	ICP-THERMO2
Client ID:	TEST PIT6-WS-110409	Prep Method:	3015	Prep Date:	11/09/2009 06:38
Matrix:	Leachate	Analytical Method:	6010B	Cal Date:	11/10/2009 12:03
Workgroup Number:	WG316887	Analyst:	EDA	Run Date	11/10/2009 13:18
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	T2.111009.131820
Sample Tag:	01	Units:	mg/L		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Arsenic, TCLP	7440-38-2		U	1	.1	D004	5
Barium, TCLP	7440-39-3	1.51		.1	.025	D005	100
Cadmium, TCLP	7440-43-9		U	.1	.025	D006	1
Chromium, TCLP	7440-47-3		U	.2	.025	D007	5
Lead, TCLP	7439-92-1		U	1	.1	D008	5
Selenium, TCLP	7782-49-2		U	.8	.4	D010	1
Silver, TCLP	7440-22-4		U	.1	.05	D011	5

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	ICP-THERMO1
Client ID:	TEST PIT6-SO-110409	Prep Method:	3051A	Prep Date:	11/06/2009 07:59
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	11/09/2009 10:09
Workgroup Number:	WG316791	Analyst:	EDA	Run Date:	11/09/2009 13:27
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	T1.110909.132718
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Barium, Total	7440-39-3	124		0.413	0.0827
Cadmium, Total	7440-43-9		U	0.413	0.0413
Chromium, Total	7440-47-3	17.2		0.827	0.0992
Lead, Total	7439-92-1	20.6		4.13	0.413
Silver, Total	7440-22-4		U	1.65	0.207

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	1311	Instrument	ICP-THERMO2
Client ID:	TEST PIT8-WS-110409	Prep Method:	3015	Prep Date:	11/09/2009 06:38
Matrix:	Leachate	Analytical Method:	6010B	Cal Date:	11/10/2009 12:03
Workgroup Number:	WG316887	Analyst:	EDA	Run Date	11/10/2009 13:24
Collect Date:	11/04/2009 15:40	Dilution:	1	File ID:	T2.111009.132435
Sample Tag:	01	Units:	mg/L		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Arsenic, TCLP	7440-38-2		U	1	.1	D004	5
Barium, TCLP	7440-39-3	1.68		.1	.025	D005	100
Cadmium, TCLP	7440-43-9		U	.1	.025	D006	1
Chromium, TCLP	7440-47-3		U	.2	.025	D007	5
Lead, TCLP	7439-92-1		U	1	.1	D008	5
Selenium, TCLP	7782-49-2		U	.8	.4	D010	1
Silver, TCLP	7440-22-4		U	.1	.05	D011	5

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	ICP-THERMO1
Client ID:	TEST PIT8-SO-110409	Prep Method:	3051A	Prep Date:	11/06/2009 07:59
Matrix:	Soil	Analytical Method:	6010B	Cal Date:	11/09/2009 10:09
Workgroup Number:	WG316791	Analyst:	EDA	Run Date:	11/09/2009 14:05
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	T1.110909.140523
Sample Tag:	01	Units:	mg/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Barium, Total	7440-39-3	37.6		0.418	0.0836
Cadmium, Total	7440-43-9		U	0.418	0.0418
Chromium, Total	7440-47-3	21.0		0.836	0.100
Lead, Total	7439-92-1	15.6		4.18	0.418
Silver, Total	7440-22-4		U	1.67	0.209

U Not detected at or above the reporting limit (RL).

2.3.1.2 QC Summary Data

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L09110114	Work Group:	WG316791
Blank File ID:	T1.110909.123022	Blank Sample ID:	WG316692-02
Prep Date:	11/06/09 07:59	Instrument ID:	ICP-THERMO1
Analyzed Date:	11/09/09 12:30	Method:	6010B
Analyst:	EDA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316692-03	T1.110909.123651	11/09/09 12:36	01
TEST PIT5-SO-110409	L09110114-02	T1.110909.132105	11/09/09 13:21	01
TEST PIT6-SO-110409	L09110114-04	T1.110909.132718	11/09/09 13:27	01
TEST PIT8-SO-110409	L09110114-06	T1.110909.140523	11/09/09 14:05	01

Report Name: BLANK_SUMMARY
PDF File ID: 1535491
Report generated 11/10/2009 09:03

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L09110114	Work Group:	WG316887
Blank File ID:	T2.111009.125330	Blank Sample ID:	WG316843-02
Prep Date:	11/09/09 06:38	Instrument ID:	ICP-THERMO2
Analyzed Date:	11/10/09 12:53	Method:	6010B
Analyst:	EDA		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316843-03	T2.111009.125945	11/10/09 12:59	01
TEST PIT5-WS-110409	L09110114-01	T2.111009.131206	11/10/09 13:12	01
TEST PIT6-WS-110409	L09110114-03	T2.111009.131820	11/10/09 13:18	01
TEST PIT8-WS-110409	L09110114-05	T2.111009.132435	11/10/09 13:24	01

Report Name: BLANK_SUMMARY
PDF File ID: 1536549
Report generated 11/10/2009 14:47

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/06/09 07:59 Sample ID: WG316692-02
Instrument ID: ICP-THERMO1 Run Date: 11/09/09 12:30 Prep Method: 3051A
File ID: T1.110909.123022 Analyst: EDA Method: 6010B
Workgroup (AAB#): WG316791 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ICP-TH-09-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Barium, Total	0.100	0.500	0.500	1	U
Cadmium, Total	0.0500	0.500	0.500	1	U
Chromium, Total	0.120	1.00	1.00	1	U
Lead, Total	0.500	5.00	5.00	1	U
Silver, Total	0.250	2.00	2.00	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1535492
10-NOV-2009 09:03

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 06:38 Sample ID: WG316843-02
Instrument ID: ICP-THERMO2 Run Date: 11/10/09 12:53 Prep Method: 3015
File ID: T2.111009.125330 Analyst: EDA Method: 6010B
Workgroup (AAB#): WG316887 Matrix: Leachate Units: mg/L
Contract #: Cal ID: ICP-TH-10-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, TCLP	0.100	1.00	1.00	1	U
Barium, TCLP	0.0250	0.100	0.100	1	U
Cadmium, TCLP	0.0250	0.100	0.100	1	U
Chromium, TCLP	0.0250	0.200	0.200	1	U
Lead, TCLP	0.100	1.00	1.00	1	U
Selenium, TCLP	0.400	0.800	0.800	1	U
Silver, TCLP	0.0500	0.100	0.100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536550
10-NOV-2009 14:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/09/2009 Sample ID: WG316692-03
Instrument ID: ICP-THERMO1 Run Time: 12:36 Prep Method: 3051A
File ID: T1.110909.123651 Analyst: EDA Method: 6010B
Workgroup (AAB#): WG316791 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD34341 Cal ID: ICP-TH-09-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Barium, Total	25.0	24.3	97.4	80 - 120	
Cadmium, Total	1.25	1.18	94.5	80 - 120	
Chromium, Total	12.5	12.9	103	80 - 120	
Lead, Total	12.5	12.1	96.6	80 - 120	
Silver, Total	10.0	9.49	94.9	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1535493
Report generated: 11/10/2009 09:03

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/10/2009 Sample ID: WG316843-03
Instrument ID: ICP-THERMO2 Run Time: 12:59 Prep Method: 3015
File ID: T2.111009.125945 Analyst: EDA Method: 6010B
Workgroup (AAB#): WG316887 Matrix: Leachate Units: mg/L
QC Key: DOWWV2006 Lot#: STD34340 Cal ID: ICP-TH-10-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, TCLP	2.00	1.90	94.9	80 - 120	
Barium, TCLP	5.00	5.01	100	80 - 120	
Cadmium, TCLP	0.250	0.241	96.2	80 - 120	
Chromium, TCLP	2.50	2.54	102	80 - 120	
Lead, TCLP	2.50	2.49	99.8	80 - 120	
Selenium, TCLP	2.00	1.83	91.3	80 - 120	
Silver, TCLP	2.00	1.95	97.3	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1536551
Report generated: 11/10/2009 14:47

2.3.2 Metals ICP-MS Data

2.3.2.1 Summary Data

Microbac Laboratories Inc.
METALS

Microbac Login No: L09110114

METHOD

Preparation: SW-846 3051

Analysis: SW-846 6020

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.

Interference Check Samples: 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.

Serial Dilution/Post Digestion Spike: WG316760(6020) - 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 Microbac Laboratories Inc., 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: JYH

Approved: 24-NOV-09
Maren Berry

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-SO-110409	L09110114-02	6020	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	6020	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	6020	1	05-NOV-09

Microbac Laboratories Inc.

Report Number: **L09110114**

Report Date : **November 24, 2009**

Sample Number:	**L09110114-02**	PrePrep Method:	**NONE**	Instrument:	**ELAN-ICP**
Client ID:	**TEST PIT5-SO-110409**	Prep Method:	**3051A**	Prep Date:	**11/06/2009 06:34**
Matrix:	**Soil**	Analytical Method:	**6020**	Cal Date:	**11/08/2009 10:22**
Workgroup Number:	**WG316760**	Analyst:	**JYH**	Run Date:	**11/08/2009 13:05**
Collect Date:	**11/04/2009 09:55**	Dilution:	**1**	File ID:	**EL.110809.130511**
Sample Tag:	**01**	Units:	**mg/kg**	Percent Solid:	**83.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	**7440-38-2**	**2.91**		**0.346**	**0.0865**
Selenium, Total	**7782-49-2**	**0.281**		**0.231**	**0.115**

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	TEST PIT6-SO-110409	Prep Method:	3051A	Prep Date:	11/06/2009 06:34
Matrix:	Soil	Analytical Method:	6020	Cal Date:	11/08/2009 10:22
Workgroup Number:	WG316760	Analyst:	JYH	Run Date:	11/08/2009 13:11
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	EL.110809.131135
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	12.8		0.348	0.0869
Selenium, Total	7782-49-2	0.536		0.232	0.116

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	ELAN-ICP
Client ID:	TEST PIT8-SO-110409	Prep Method:	3051A	Prep Date:	11/06/2009 06:34
Matrix:	Soil	Analytical Method:	6020	Cal Date:	11/08/2009 10:22
Workgroup Number:	WG316760	Analyst:	JYH	Run Date:	11/08/2009 12:45
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	EL.110809.124559
Sample Tag:	01	Units:	mg/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Total	7440-38-2	10.7		0.330	0.0824
Selenium, Total	7782-49-2	0.605		0.220	0.110

2.3.2.2 QC Summary Data

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316760
Blank File ID: EL.110809.123312
Blank Sample ID: WG316670-02
Prep Date: 11/06/09 06:34
Instrument ID: ELAN-ICP
Analyzed Date: 11/08/09 12:33
Method: 6020
Analyst: JYH

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316670-03	EL.110809.123935	11/08/09 12:39	01
TEST PIT8-SO-110409	L09110114-06	EL.110809.124559	11/08/09 12:45	01
TEST PIT5-SO-110409	L09110114-02	EL.110809.130511	11/08/09 13:05	01
TEST PIT6-SO-110409	L09110114-04	EL.110809.131135	11/08/09 13:11	01

Report Name: BLANK_SUMMARY
PDF File ID: 1534249
Report generated 11/09/2009 09:18

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/06/09 06:34 Sample ID: WG316670-02
Instrument ID: ELAN-ICP Run Date: 11/08/09 12:33 Prep Method: 3051A
File ID: EL.110809.123312 Analyst: JYH Method: 6020
Workgroup (AAB#): WG316760 Matrix: Soil Units: mg/kg
Contract #: Cal ID: ELAN-I-08-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Total	0.0750	0.300	0.300	1	U
Selenium, Total	0.100	0.200	0.200	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1534250
09-NOV-2009 09:18

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/08/2009 Sample ID: WG316670-03
Instrument ID: ELAN-ICP Run Time: 12:39 Prep Method: 3051A
File ID: EL.110809.123935 Analyst: JYH Method: 6020
Workgroup (AAB#): WG316760 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD33694 Cal ID: ELAN-I-08-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Total	10.0	9.57	95.7	80 - 120	
Selenium, Total	10.0	9.25	92.5	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1534251
Report generated: 11/09/2009 09:18

2.3.3 Metals CVAA Data (Mercury)

2.3.3.1 Summary Data

Microbac Laboratories Inc.
METALS

Microbac Login No: L09110114

METHOD

Preparation: SW-846 7470A/7471B

Analysis: SW-846 7470A/7471B

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.

Serial Dilution/Post Digestion Spike: WG316918(7470A) - All acceptance criteria were met.

WG316934(7471B) - 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 Microbac Laboratories Inc., 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: ADC

Approved: 24-NOV-09
Maren Berry

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	7470A	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	7471A	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	7470A	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	7471A	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	7470A	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	7471A	1	05-NOV-09

Microbac Laboratories Inc.

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	**L09110114-01**	PrePrep Method:	**1311**	Instrument:	**HYDRA**
Client ID:	**TEST PIT5-WS-110409**	Prep Method:	**7470A**	Prep Date:	**11/09/2009 07:41**
Matrix:	**Leachate**	Analytical Method:	**7470A**	Cal Date:	**11/10/2009 11:44**
Workgroup Number:	**WG316918**	Analyst:	**ADC**	Run Date	**11/10/2009 12:24**
Collect Date:	**11/04/2009 09:45**	Dilution:	**1**	File ID:	**HY.111009.122433**
Sample Tag:	**01**	Units:	**mg/L**		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury	**7439-97-6**		**U**	**.002**	**.001**	**D009**	**.2**

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-02	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	TEST PIT5-SO-110409	Prep Method:	7471B	Prep Date:	11/06/2009 08:27
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	11/09/2009 13:54
Workgroup Number:	WG316934	Analyst:	PDM	Run Date:	11/09/2009 14:10
Collect Date:	11/04/2009 09:55	Dilution:	1	File ID:	HY.110909.141031
Sample Tag:	01	Units:	mg/kg	Percent Solid:	83.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.293	0.0117

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	1311	Instrument:	HYDRA
Client ID:	TEST PIT6-WS-110409	Prep Method:	7470A	Prep Date:	11/09/2009 07:41
Matrix:	Leachate	Analytical Method:	7470A	Cal Date:	11/10/2009 11:44
Workgroup Number:	WG316918	Analyst:	ADC	Run Date	11/10/2009 12:28
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	HY.111009.122808
Sample Tag:	01	Units:	mg/L		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury	7439-97-6		U	.002	.001	D009	.2

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	TEST PIT6-SO-110409	Prep Method:	7471B	Prep Date:	11/06/2009 08:28
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	11/09/2009 13:54
Workgroup Number:	WG316934	Analyst:	PDM	Run Date:	11/09/2009 14:14
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	HY.110909.141413
Sample Tag:	01	Units:	mg/kg	Percent Solid:	85.1

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.289	0.0116

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	1311	Instrument:	HYDRA
Client ID:	TEST PIT8-WS-110409	Prep Method:	7470A	Prep Date:	11/09/2009 07:41
Matrix:	Leachate	Analytical Method:	7470A	Cal Date:	11/10/2009 11:44
Workgroup Number:	WG316918	Analyst:	ADC	Run Date	11/10/2009 12:29
Collect Date:	11/04/2009 15:40	Dilution:	1	File ID:	HY.111009.122955
Sample Tag:	01	Units:	mg/L		

Analyte	CAS.Number	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury	7439-97-6		U	.002	.001	D009	.2

U Not detected at or above the reporting limit (RL).

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	HYDRA
Client ID:	TEST PIT8-SO-110409	Prep Method:	7471B	Prep Date:	11/06/2009 08:29
Matrix:	Soil	Analytical Method:	7471A	Cal Date:	11/09/2009 13:54
Workgroup Number:	WG316934	Analyst:	PDM	Run Date:	11/09/2009 14:15
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	HY.110909.141559
Sample Tag:	01	Units:	mg/kg	Percent Solid:	89.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Total	7439-97-6		U	0.269	0.0108

U Not detected at or above the reporting limit (RL).

2.3.3.2 QC Summary

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L09110114	Work Group:	WG316934
Blank File ID:	HY.110909.140634	Blank Sample ID:	WG316698-02
Prep Date:	11/06/09 08:29	Instrument ID:	HYDRA
Analyzed Date:	11/09/09 14:06	Method:	7471B
Analyst:	PDM		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316698-03	HY.110909.140819	11/09/09 14:08	01
TEST PIT5-SO-110409	L09110114-02	HY.110909.141031	11/09/09 14:10	01
TEST PIT6-SO-110409	L09110114-04	HY.110909.141413	11/09/09 14:14	01
TEST PIT8-SO-110409	L09110114-06	HY.110909.141559	11/09/09 14:15	01

Report Name: BLANK_SUMMARY
PDF File ID: 1536955
Report generated 11/10/2009 16:19

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L09110114
Work Group: WG316918
Blank File ID: HY.111009.115557
Blank Sample ID: WG316853-02
Prep Date: 11/09/09 07:41
Instrument ID: HYDRA
Analyzed Date: 11/10/09 11:55
Method: 7470A
Analyst: ADC

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG316853-03	HY.111009.115739	11/10/09 11:57	01
TEST PIT5-WS-110409	L09110114-01	HY.111009.122433	11/10/09 12:24	01
TEST PIT6-WS-110409	L09110114-03	HY.111009.122808	11/10/09 12:28	01
TEST PIT8-WS-110409	L09110114-05	HY.111009.122955	11/10/09 12:29	01

Report Name: BLANK_SUMMARY
PDF File ID: 1536676
Report generated 11/10/2009 15:12

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/06/09 08:29 Sample ID: WG316698-02
Instrument ID: HYDRA Run Date: 11/09/09 14:06 Prep Method: 7471B
File ID: HY.110909.140634 Analyst: PDM Method: 7471B
Workgroup (AAB#): WG316934 Matrix: Soil Units: mg/kg
Contract #: Cal ID: HYDRA-09-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Total	0.0100	0.250	0.250	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536956
10-NOV-2009 16:19

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L09110114 Prep Date: 11/09/09 07:41 Sample ID: WG316853-02
Instrument ID: HYDRA Run Date: 11/10/09 11:55 Prep Method: 7470A
File ID: HY.111009.115557 Analyst: ADC Method: 7470A
Workgroup (AAB#): WG316918 Matrix: Leachate Units: mg/L
Contract #: Cal ID: HYDRA-10-NOV-09

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	-0.000152	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 1536677
10-NOV-2009 15:12

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/09/2009 Sample ID: WG316698-03
Instrument ID: HYDRA Run Time: 14:08 Prep Method: 7471B
File ID: HY.110909.140819 Analyst: PDM Method: 7471B
Workgroup (AAB#): WG316934 Matrix: Soil Units: mg/kg
QC Key: DOWWV2006 Lot#: STD36232 Cal ID: HYDRA-09-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Total	0.267	0.273	103	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 1536957
Report generated: 11/10/2009 16:19

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L09110114 Run Date: 11/10/2009 Sample ID: WG316853-03
Instrument ID: HYDRA Run Time: 11:57 Prep Method: 7470A
File ID: HY.111009.115739 Analyst: ADC Method: 7470A
Workgroup (AAB#): WG316918 Matrix: Leachate Units: mg/L
QC Key: DOWWV2006 Lot#: STD36254 Cal ID: HYDRA-10-NOV-09

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00415	104	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 1536678
Report generated: 11/10/2009 15:12

LABORATORY REPORT

L09110114

11/24/09 13:27

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: CH2MHILL, Inc
CH2MHILL
3201 Beechleaf Ct., Suite 200
Raleigh, NC 27604
Attention: Paul Weber

Project Number: 2736.042
Project: DOW TECH CTR
Site: DOW TECH CENTER

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
TEST PIT5-WS-110409	L09110114-01	D2216-90	1	05-NOV-09
TEST PIT5-WS-110409	L09110114-01	D2216-90	1	05-NOV-09
TEST PIT5-SO-110409	L09110114-02	D2216-90	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	D2216-90	1	05-NOV-09
TEST PIT6-WS-110409	L09110114-03	D2216-90	1	05-NOV-09
TEST PIT6-SO-110409	L09110114-04	D2216-90	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	D2216-90	1	05-NOV-09
TEST PIT8-WS-110409	L09110114-05	D2216-90	1	05-NOV-09
TEST PIT8-SO-110409	L09110114-06	D2216-90	1	05-NOV-09

Microbac Laboratories Inc.

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-01**
Client ID: **TEST PIT5-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG317150**
Collect Date: **11/04/2009 09:45**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **11/11/2009 15:16**
Cal Date:
Run Date: **11/11/2009 15:16**
File ID: **B1.317150-0201**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	**10-02-6**	**90.0**		**1.00**	**1.00**

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-01	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT5-WS-110409	Prep Method:	D2216-90	Prep Date:	11/12/2009 08:15
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG317150	Analyst:	JDH	Run Date:	11/12/2009 08:15
Collect Date:	11/04/2009 09:45	Dilution:	1	File ID:	B1.317150-0301
Sample Tag:	03	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.7		1.00	1.00

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-02**
Client ID: **TEST PIT5-SO-110409**
Matrix: **Soil**
Workgroup Number: **WG316730**
Collect Date: **11/04/2009 09:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **11/09/2009 08:41**
Cal Date:
Run Date: **11/09/2009 08:41**
File ID: **B1.316730-0134**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	**10-02-6**	**83.7**		**1.00**	**1.00**

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-03	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT6-WS-110409	Prep Method:	D2216-90	Prep Date:	11/12/2009 08:15
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG317150	Analyst:	JDH	Run Date:	11/12/2009 08:15
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	B1.317150-0302
Sample Tag:	03	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	78.5		1.00	1.00

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number: **L09110114-03**
Client ID: **TEST PIT6-WS-110409**
Matrix: **Soil**
Workgroup Number: **WG317150**
Collect Date: **11/04/2009 11:30**
Sample Tag: **02**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **11/11/2009 15:16**
Cal Date:
Run Date: **11/11/2009 15:16**
File ID: **B1.317150-0202**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	**10-02-6**	**78.6**		**1.00**	**1.00**

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-04	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT6-SO-110409	Prep Method:	D2216-90	Prep Date:	11/09/2009 08:41
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG316730	Analyst:	JDH	Run Date:	11/09/2009 08:41
Collect Date:	11/04/2009 11:30	Dilution:	1	File ID:	B1.316730-0135
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	85.1		1.00	1.00

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT8-WS-110409	Prep Method:	D2216-90	Prep Date:	11/12/2009 08:15
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG317150	Analyst:	JDH	Run Date:	11/12/2009 08:15
Collect Date:	11/04/2009 15:40	Dilution:	1	File ID:	B1.317150-0303
Sample Tag:	03	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	88.4		1.00	1.00

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT8-WS-110409	Prep Method:	D2216-90	Prep Date:	11/11/2009 15:16
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG317150	Analyst:	JDH	Run Date:	11/11/2009 15:16
Collect Date:	11/04/2009 15:40	Dilution:	1	File ID:	B1.317150-0203
Sample Tag:	02	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	88.5		1.00	1.00

Report Number: **L09110114**
Report Date : **November 24, 2009**

Sample Number:	L09110114-06	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	TEST PIT8-SO-110409	Prep Method:	D2216-90	Prep Date:	11/09/2009 08:41
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG316730	Analyst:	JDH	Run Date:	11/09/2009 08:41
Collect Date:	11/04/2009 15:50	Dilution:	1	File ID:	B1.316730-0136
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.7		1.00	1.00

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
November 24, 2009

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	AJM – ANTHONY J. MOSSBURG
ALB – ANNIE L. BROWN	AML – ANTHONY M. LONG	BLG – BRENDA L. GREENWALT
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS
CAH – CHARLES A. HALL	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DDE – DEBRA D. ELLIOTT	DEL – DON E. LIGHTFRITZ	DEV – DAVID E. VANDENBERG
DGB – DOUGLAS G. BUTCHER	DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER
DLP – DOROTHY L. PAYNE	DLR – DIANNA L. RAUCH	DR – DEANNA ROBERTS
ECL – ERIC C. LAWSON	EDA – ERIN D. AGEE	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	HAV – HEMA VILASAGAR	HJR – HOLLY J. REED
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKT – JANE K. THOMPSON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES	JYH – JI Y. HU
KEB – KATHRYN E. BARNES	KHR – KIM H. RHODES	KRA – KATHY R. ALBERTSON
LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA	MDA – MIKE D. ALBERTSON
MDC – MICHAEL D. COCHRAN	MES – MARY E. SCHILLING	MMB – MAREN M. BEERY
MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON	NPM – NATHANIEL P. MILLER
PDM – PIERCE D. MORRIS	RAH – ROY A. HALSTEAD	RB – ROBERT BUCHANAN
REK – ROBERT E. KYER	RLK – ROBIN L. KLINGER	RWC – RODNEY W. CAMPBELL
SDH – SHANA D. HINYARD	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WTD – WADE T. DELONG	

Microbac Laboratories Inc.
List of Valid Qualifiers
November 24, 2009

Qualkey: CLP

Qualifier	Description
E	Estimated concentration due to interference
E	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
U	Not detected at or above the reporting limit (RL).

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

COC No. A 13158

158 Starlite Drive
Marietta, OH 45750

Microbac

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

CHAIN-OF-CUSTODY RECORD

Company Name: CH2M HILL (P.O.# 935683)

Project Contact: Paul Weber | Contact Phone #: 919-760-7788

Turn Around Requirements: 3 day | Location: Tech Park

Project ID: SWMU 70 (CHem Proj# - 387481)

Sampler (print): Paul Weber | Signature: Paul Weber

Program: ☐ CWA ☒ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOCs	SVOCs	TCLP Metals	RCRA Metals	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
TestPit5-WS-110409	X		11-04-09	0945	Waste	3		X	X	X			4 ft bgs
TestPit5-SO-110409		X	11-04-09	0955	Soil	5		X	X		X		6 ft bgs
TestPit6-WS-110409	X		11-04-09	1130	Waste	3		X	X	X			5-8 ft bgs
TestPit6-SO-110409		X	11-04-09	1130	Soil	5		X	X		X		10-12 ft bgs
TestPit7-WS-110409	X		11-04-09	1430	Waste	3		X	X	X			2 ft bgs
TestPit7-SO-110409		X	11-04-09	1500	Soil	5		X	X		X		3.5 ft bgs
TestPit8-WS-110409	X		11-04-09	1540	Waste	3		X	X	X			2-4 ft bgs
TestPit8-SO-110409		X	11-04-09	1550	Soil	5		X	X		X		6 ft bgs
TestPit9-WS-110409	X		11-04-09	1620	Waste	3		X	X	X			2ft bgs
TestPit9-SO-110409		X	11-04-09	1625	Soil	5		X	X		X		3ft bgs
TB01-110409		X	11-04-09	0900	Water	2		X					

Relinquished by: (Signature)	Date	Time
Paul Weber	11-05-09	1110
Don Lightfritz	11-5-09	1430

Microbac OVD
Received: 11/05/2009 14:25
By: DON LIGHTFRITZ
221000002772

Don E Lightfritz

Received by: (Signature)	Date	Time
Don Lightfritz	11-5-09	1300

Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

1000002772

COOLER INSPECTION

Received: 11/05/2009 14:25
Delivery Method: Courier
Opened By: Don Lightfritz
Comments:

Login(s): L09110114 L09110115

Cooler(s)

Cooler #	Temp Gun	Temp	Tracking #	COC #	Comments
0010156	H	3.0		COC13155	

1	Yes	Were shipping coolers sealed?
2	Yes	Were custody seals intact?
3	Yes	Were cooler temperatures in range of 0-6?
4	Yes	Was ice present?
5	Yes	Were COC's received/information complete/signed and dated?
6	Yes	Were sample containers and labels intact and match COC?
7	Yes	Were the correct containers and volumes received?
8	Yes	Were correct perservatives used? (water only)
9	NA	Were pH ranges acceptable? (voa's excluded)
10	Yes	Were VOA samples free of headspace (<6mm)?
11	Yes	Were samples received within EPA hold times?

Microbac - Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Tel: (740)373-4071 Fax: (740)373-4835

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-01	631642	G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-NOV-2009 16:07	RLK	
2	ANALYZ	V1	ORG4	06-NOV-2009 09:07	MRT	RLK
3	STORE	ORG4	A2	19-NOV-2009 09:10	RLK	MRT

Samplenum	Container ID	Products
L09110114-01	631643	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	TCL	06-NOV-2009 06:44	RWC	RLK
3	STORE	TCL	W1	06-NOV-2009 11:28	RLK	RWC
4	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
5	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
6	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Samplenum	Container ID	Products
L09110114-01	631644	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:20	BLG	BLG

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-02	631645	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Samplenum	Container ID	Products
L09110114-02	631646	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK

Samplenum	Container ID	Products
L09110114-02	631647	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:20	BLG	BLG

***Sample extract/digestate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-02	631648	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	DIG	06-NOV-2009 04:45	REK	RLK
3	STORE	DIG	W1	06-NOV-2009 09:24	JKT	BRG
4	ANALYZ	W1	WET	06-NOV-2009 09:53	JDH	RLK
5	ANALYZ*	DIG	METALS	06-NOV-2009 12:34	JYH	REK
6	STORE	WET	W1	06-NOV-2009 14:09	RLK	JDH
7	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

Samplenum	Container ID	Products
L09110114-03	631649	G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-NOV-2009 16:07	RLK	
2	ANALYZ	V1	ORG4	06-NOV-2009 09:11	MRT	RLK
3	STORE	ORG4	A2	19-NOV-2009 09:10	RLK	MRT

Samplenum	Container ID	Products
L09110114-03	631650	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	TCL	06-NOV-2009 06:44	RWC	RLK
3	STORE	TCL	W1	06-NOV-2009 11:28	RLK	RWC
4	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
5	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
6	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-03	631651	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:23	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

Samplenum	Container ID	Products
L09110114-04	631652	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK

Samplenum	Container ID	Products
L09110114-04	631653	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-04	631654	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:23	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

Samplenum	Container ID	Products
L09110114-04	631655	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	DIG	06-NOV-2009 04:45	REK	RLK
3	STORE	DIG	W1	06-NOV-2009 09:24	JKT	BRG
4	ANALYZ	W1	WET	06-NOV-2009 09:53	JDH	RLK
5	ANALYZ*	DIG	METALS	06-NOV-2009 12:34	JYH	REK
6	STORE	WET	W1	06-NOV-2009 14:09	RLK	JDH
7	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

Samplenum	Container ID	Products
L09110114-05	631656	G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-NOV-2009 16:07	RLK	
2	ANALYZ	V1	ORG4	06-NOV-2009 09:07	MRT	RLK
3	STORE	ORG4	A2	19-NOV-2009 09:10	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-05	631657	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	TCL	06-NOV-2009 06:44	RWC	RLK
3	STORE	TCL	W1	06-NOV-2009 11:29	RLK	RWC
4	ANALYZ	W1	WET	11-NOV-2009 12:23	JDH	JKT
5	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
6	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Samplenum	Container ID	Products
L09110114-05	631658	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:23	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-06	631659	G-40-T2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK
3	STORE	VOAY	A2	24-NOV-2009 09:05	RLK	MRT

Samplenum	Container ID	Products
L09110114-06	631660	ENCORE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	L1	05-NOV-2009 16:07	RLK	
2	ANALYZ	L1	VOAY	05-NOV-2009 16:20	MES	RLK

Samplenum	Container ID	Products
L09110114-06	631661	827-SPE-DIOX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	EXT	06-NOV-2009 06:22	CEB	RLK
3	STORE	EXT	W1	06-NOV-2009 09:09	RLK	CEB
4	ANALYZ*	EXT	SEMI	06-NOV-2009 11:53	CAA	CEB
5	PREP	W1	EXT	09-NOV-2009 11:21	CEB	RLK
6	STORE	EXT	W1	09-NOV-2009 12:26	RLK	CEB
7	ANALYZ	W1	WET	11-NOV-2009 12:23	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L09110114
Account: 2736
Project: 2736.042
Samples: 7
Due Date: 10-NOV-2009

Samplenum	Container ID	Products
L09110114-06	631662	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	05-NOV-2009 16:07	RLK	
2	PREP	W1	DIG	06-NOV-2009 04:45	REK	RLK
3	STORE	DIG	W1	06-NOV-2009 09:24	JKT	BRG
4	ANALYZ	W1	WET	06-NOV-2009 09:53	JDH	RLK
5	ANALYZ*	DIG	METALS	06-NOV-2009 12:34	JYH	REK
6	STORE	WET	W1	06-NOV-2009 14:09	RLK	JDH
7	ANALYZ	W1	WET	11-NOV-2009 12:24	JDH	JKT
8	STORE	WET	W1	11-NOV-2009 12:44	RLK	JDH
9	STORE	W1	A2	20-NOV-2009 08:19	BLG	BLG

Sample extract/digestate

Samplenum	Container ID	Products
L09110114-07	631663	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-NOV-2009 16:07	RLK	
2	ANALYZ	V1	ORG4	06-NOV-2009 09:06	MRT	RLK
3	STORE	ORG4	A2	19-NOV-2009 09:12	RLK	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-NOV-2009 16:07	RLK	
2	ANALYZ	V1	ORG4	06-NOV-2009 09:06	MRT	RLK
3	STORE	ORG4	A2	19-NOV-2009 09:12	RLK	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

August 01, 2007 3:27:09PM

Client: TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn: Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Nbr: 04-07-0231
P/O Nbr:
Date Received: 06/29/07

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SUB-1 (10'-11.5')	NQF3703-01	06/25/07 10:05
SUB-2 (10'-11')	NQF3703-02	06/25/07 10:45
SUB-3 (8'-10')	NQF3703-03	06/25/07 11:25
SS-1 (0-2')	NQF3703-04	06/25/07 13:15
SS-2 (0-2')	NQF3703-05	06/25/07 13:30
SS-3 (0-2')	NQF3703-06	06/25/07 13:40
SS-4 (0-2')	NQF3703-07	06/25/07 13:45
SS-5 (0-2')	NQF3703-08	06/25/07 14:35
SUB-4 (2'-3')	NQF3703-09	06/25/07 14:36
SS-6 (0-2')	NQF3703-10	06/26/07 08:40
SS-7 (0-2')	NQF3703-11	06/26/07 08:50
SUB-5 (2'-3')	NQF3703-12	06/26/07 08:51
SS-8 (0-2')	NQF3703-13	06/26/07 09:10
SUB-6 (6'-8')	NQF3703-14	06/26/07 09:15
SS-9 (0-2')	NQF3703-15	06/26/07 09:25
SS-10 (0-2)	NQF3703-16	06/26/07 09:45
SS-11 (0-2') BG	NQF3703-17	06/26/07 10:05
SUB-7 (2'4') BG	NQF3703-18	06/26/07 10:06
SS-12 (0-2)	NQF3703-19	06/26/07 13:00
SUB-7 (6'-8')	NQF3703-20	06/26/07 13:10
SS-13 (0-2)	NQF3703-21	06/26/07 13:30
SUB-8 (4'-6')	NQF3703-22	06/26/07 13:40
FD-1	NQF3703-23	06/26/07
SS-14 (0-2')	NQF3703-24	06/26/07 14:00
SUB-9 (8'-10')	NQF3703-25	06/26/07 14:10
SS-15 (0-2')	NQF3703-26	06/26/07 14:35

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

SUB-10 (4'-6')	NQF3703-27	06/26/07 14:40
SS-17 (0-2')	NQF3703-28	06/26/07 15:30
SUB-11 (4-6)	NQF3703-29	06/26/07 15:35
FD-2	NQF3703-30	06/26/07
SS-18 (0-2')	NQF3703-31	06/27/07 08:50
SS-19 (0-2')	NQF3703-32	06/27/07 09:10
SS-20 (0-2')	NQF3703-33	06/27/07 09:20
SS-21 (0-2')	NQF3703-34	06/27/07 09:30
SS-5 (0-2') RB	NQF3703-35	06/25/07 15:30
HA-RB	NQF3703-36	06/27/07 09:45
GPGW-1	NQF3703-37	06/27/07 10:30
Trip Blank 2	NQF3703-38	06/27/07
Trip Blank 5	NQF3703-40	06/27/07

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.
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West Virginia Certification Number: 219

The Chain(s) of Custody, 14 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainity is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-01 (SUB-1 (10'-11.5') - Soil) Sampled: 06/25/07 10:05									
General Chemistry Parameters									
% Dry Solids	**81.1**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**7.50**		mg/kg dry	1.06	1.23	1	07/02/07 19:08	SW846 6010B	7065535
Barium	**155**		mg/kg dry	0.370	2.47	1	07/02/07 19:08	SW846 6010B	7065535
Cadmium	<0.247		mg/kg dry	0.247	1.23	1	07/02/07 19:08	SW846 6010B	7065535
Chromium	**45.3**		mg/kg dry	0.370	1.23	1	07/02/07 19:08	SW846 6010B	7065535
Lead	**21.6**		mg/kg dry	1.11	1.23	1	07/02/07 19:08	SW846 6010B	7065535
Selenium	<1.85		mg/kg dry	1.85	2.47	1	07/02/07 19:08	SW846 6010B	7065535
Silver	<0.617		mg/kg dry	0.617	1.23	1	07/02/07 19:08	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0364		mg/kg dry	0.0364	0.121	1	07/05/07 09:09	SW846 7471A	7070076
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0430		mg/kg dry	0.0430	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Acenaphthylene	<0.0526		mg/kg dry	0.0526	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Anthracene	<0.0478		mg/kg dry	0.0478	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Benzo (a) anthracene	<0.0442		mg/kg dry	0.0442	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Benzo (a) pyrene	<0.0478		mg/kg dry	0.0478	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.0454		mg/kg dry	0.0454	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.0323		mg/kg dry	0.0323	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.0550		mg/kg dry	0.0550	0.398	1	07/05/07 20:10	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<0.143		mg/kg dry	0.143	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Butyl benzyl phthalate	<0.157		mg/kg dry	0.157	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Carbazole	<0.158		mg/kg dry	0.158	0.398	1	07/05/07 20:10	SW846 8270C	7065633
4-Chloro-3-methylphenol	<0.143		mg/kg dry	0.143	0.398	1	07/05/07 20:10	SW846 8270C	7065633
4-Chloroaniline	<0.110		mg/kg dry	0.110	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<0.136		mg/kg dry	0.136	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<0.125		mg/kg dry	0.125	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<0.172		mg/kg dry	0.172	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2-Chloronaphthalene	<0.109		mg/kg dry	0.109	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2-Chlorophenol	<0.141		mg/kg dry	0.141	0.398	1	07/05/07 20:10	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<0.148		mg/kg dry	0.148	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Chrysene	<0.0466		mg/kg dry	0.0466	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Dibenz (a,h) anthracene	<0.0311		mg/kg dry	0.0311	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Dibenzofuran	<0.172		mg/kg dry	0.172	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Di-n-butyl phthalate	<0.157		mg/kg dry	0.157	0.398	1	07/05/07 20:10	SW846 8270C	7065633
1,4-Dichlorobenzene	<0.117		mg/kg dry	0.117	0.398	1	07/05/07 20:10	SW846 8270C	7065633
1,2-Dichlorobenzene	<0.110		mg/kg dry	0.110	0.398	1	07/05/07 20:10	SW846 8270C	7065633
1,3-Dichlorobenzene	<0.127		mg/kg dry	0.127	0.398	1	07/05/07 20:10	SW846 8270C	7065633
3,3-Dichlorobenzidine	<0.219		mg/kg dry	0.219	0.797	1	07/05/07 20:10	SW846 8270C	7065633
2,4-Dichlorophenol	<0.214		mg/kg dry	0.214	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Diethyl phthalate	<0.111		mg/kg dry	0.111	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2,4-Dimethylphenol	<0.136		mg/kg dry	0.136	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Dimethyl phthalate	<0.141		mg/kg dry	0.141	0.398	1	07/05/07 20:10	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-01 (SUB-1 (10'-11.5') - Soil) - cont. Sampled: 06/25/07 10:05									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
4,6-Dinitro-2-methylphenol	<0.234		mg/kg dry	0.234	0.995	1	07/05/07 20:10	SW846 8270C	7065633
2,4-Dinitrophenol	<0.317		mg/kg dry	0.317	0.995	1	07/05/07 20:10	SW846 8270C	7065633
2,6-Dinitrotoluene	<0.146		mg/kg dry	0.146	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2,4-Dinitrotoluene	<0.172		mg/kg dry	0.172	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Di-n-octyl phthalate	<0.158		mg/kg dry	0.158	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<0.194		mg/kg dry	0.194	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Fluoranthene	<0.0502		mg/kg dry	0.0502	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Fluorene	<0.0514		mg/kg dry	0.0514	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Hexachlorobenzene	<0.162		mg/kg dry	0.162	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Hexachlorobutadiene	<0.140		mg/kg dry	0.140	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Hexachlorocyclopentadiene	<0.151		mg/kg dry	0.151	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Hexachloroethane	<0.123		mg/kg dry	0.123	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.0406		mg/kg dry	0.0406	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Isophorone	<0.159		mg/kg dry	0.159	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2-Methylnaphthalene	<0.0430		mg/kg dry	0.0430	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2-Methylphenol	<0.139		mg/kg dry	0.139	0.398	1	07/05/07 20:10	SW846 8270C	7065633
3/4-Methylphenol	<0.151		mg/kg dry	0.151	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Naphthalene	<0.0478		mg/kg dry	0.0478	0.398	1	07/05/07 20:10	SW846 8270C	7065633
3-Nitroaniline	<0.131		mg/kg dry	0.131	0.995	1	07/05/07 20:10	SW846 8270C	7065633
2-Nitroaniline	<0.134		mg/kg dry	0.134	0.995	1	07/05/07 20:10	SW846 8270C	7065633
4-Nitroaniline	<0.139		mg/kg dry	0.139	0.995	1	07/05/07 20:10	SW846 8270C	7065633
Nitrobenzene	<0.134		mg/kg dry	0.134	0.398	1	07/05/07 20:10	SW846 8270C	7065633
4-Nitrophenol	<0.142		mg/kg dry	0.142	0.995	1	07/05/07 20:10	SW846 8270C	7065633
2-Nitrophenol	<0.237		mg/kg dry	0.237	0.398	1	07/05/07 20:10	SW846 8270C	7065633
N-Nitrosodiphenylamine	<0.221		mg/kg dry	0.221	0.398	1	07/05/07 20:10	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<0.135		mg/kg dry	0.135	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Pentachlorophenol	<0.180		mg/kg dry	0.180	0.995	1	07/05/07 20:10	SW846 8270C	7065633
Phenanthrene	<0.0478		mg/kg dry	0.0478	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Phenol	<0.139		mg/kg dry	0.139	0.398	1	07/05/07 20:10	SW846 8270C	7065633
Pyrene	<0.0562		mg/kg dry	0.0562	0.398	1	07/05/07 20:10	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<0.118		mg/kg dry	0.118	0.398	1	07/05/07 20:10	SW846 8270C	7065633
1-Methylnaphthalene	<0.0430		mg/kg dry	0.0430	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2,4,6-Trichlorophenol	<0.115		mg/kg dry	0.115	0.398	1	07/05/07 20:10	SW846 8270C	7065633
2,4,5-Trichlorophenol	<0.135		mg/kg dry	0.135	0.995	1	07/05/07 20:10	SW846 8270C	7065633
Surr: Terphenyl-d14 (49-123%)	*68 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*60 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*59 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*40 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*45 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*40 %*					*1*	*07/05/07 20:10*	*SW846 8270C*	*7065633*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-02 (SUB-2 (10'-11') - Soil) Sampled: 06/25/07 10:45									
General Chemistry Parameters									
% Dry Solids	**85.6**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**3.66**		mg/kg dry	0.983	1.14	1	07/02/07 19:35	SW846 6010B	7065535
Barium	**148**		mg/kg dry	0.343	2.29	1	07/02/07 19:35	SW846 6010B	7065535
Cadmium	<0.229		mg/kg dry	0.229	1.14	1	07/02/07 19:35	SW846 6010B	7065535
Chromium	**40.2**		mg/kg dry	0.343	1.14	1	07/02/07 19:35	SW846 6010B	7065535
Lead	**16.5**		mg/kg dry	1.03	1.14	1	07/02/07 19:35	SW846 6010B	7065535
Selenium	<1.71		mg/kg dry	1.71	2.29	1	07/02/07 19:35	SW846 6010B	7065535
Silver	<0.572		mg/kg dry	0.572	1.14	1	07/02/07 19:35	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0343		mg/kg dry	0.0343	0.114	1	07/05/07 09:11	SW846 7471A	7070076
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0411		mg/kg dry	0.0411	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Acenaphthylene	<0.0502		mg/kg dry	0.0502	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Anthracene	<0.0457	L	mg/kg dry	0.0457	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Benzo (a) anthracene	<0.0422		mg/kg dry	0.0422	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Benzo (a) pyrene	<0.0457		mg/kg dry	0.0457	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0434		mg/kg dry	0.0434	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Benzo (g,h,i) perylene	<0.0308		mg/kg dry	0.0308	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0525	L	mg/kg dry	0.0525	0.380	1	07/11/07 03:57	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.137		mg/kg dry	0.137	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Butyl benzyl phthalate	<0.150		mg/kg dry	0.150	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Carbazole	<0.151	L	mg/kg dry	0.151	0.380	1	07/11/07 03:57	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.137		mg/kg dry	0.137	0.380	1	07/11/07 03:57	SW846 8270C	7071161
4-Chloroaniline	<0.105		mg/kg dry	0.105	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.130		mg/kg dry	0.130	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.120		mg/kg dry	0.120	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.164		mg/kg dry	0.164	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2-Chloronaphthalene	<0.104		mg/kg dry	0.104	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2-Chlorophenol	<0.135		mg/kg dry	0.135	0.380	1	07/11/07 03:57	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.142	L	mg/kg dry	0.142	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Chrysene	<0.0445		mg/kg dry	0.0445	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0297		mg/kg dry	0.0297	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Dibenzofuran	<0.164	L	mg/kg dry	0.164	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Di-n-butyl phthalate	<0.150		mg/kg dry	0.150	0.380	1	07/11/07 03:57	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.112		mg/kg dry	0.112	0.380	1	07/11/07 03:57	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.105		mg/kg dry	0.105	0.380	1	07/11/07 03:57	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.121		mg/kg dry	0.121	0.380	1	07/11/07 03:57	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.209		mg/kg dry	0.209	0.761	1	07/11/07 03:57	SW846 8270C	7071161
2,4-Dichlorophenol	<0.204		mg/kg dry	0.204	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Diethyl phthalate	<0.106		mg/kg dry	0.106	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2,4-Dimethylphenol	<0.130		mg/kg dry	0.130	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Dimethyl phthalate	<0.135	L	mg/kg dry	0.135	0.380	1	07/11/07 03:57	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-02RE1 (SUB-2 (10'-11') - Soil) - cont. Sampled: 06/25/07 10:45									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
4,6-Dinitro-2-methylphenol	<0.224		mg/kg dry	0.224	0.951	1	07/11/07 03:57	SW846 8270C	7071161
2,4-Dinitrophenol	<0.303		mg/kg dry	0.303	0.951	1	07/11/07 03:57	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.139		mg/kg dry	0.139	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2,4-Dinitrotoluene	<0.164		mg/kg dry	0.164	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Di-n-octyl phthalate	<0.151		mg/kg dry	0.151	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.185		mg/kg dry	0.185	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Fluoranthene	<0.0479	L	mg/kg dry	0.0479	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Fluorene	<0.0491		mg/kg dry	0.0491	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Hexachlorobenzene	<0.155		mg/kg dry	0.155	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Hexachlorobutadiene	<0.134		mg/kg dry	0.134	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.144		mg/kg dry	0.144	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Hexachloroethane	<0.118		mg/kg dry	0.118	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	<0.0388		mg/kg dry	0.0388	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Isophorone	<0.152		mg/kg dry	0.152	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2-Methylnaphthalene	<0.0411		mg/kg dry	0.0411	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2-Methylphenol	<0.132		mg/kg dry	0.132	0.380	1	07/11/07 03:57	SW846 8270C	7071161
3/4-Methylphenol	<0.144		mg/kg dry	0.144	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Naphthalene	<0.0457		mg/kg dry	0.0457	0.380	1	07/11/07 03:57	SW846 8270C	7071161
3-Nitroaniline	<0.126		mg/kg dry	0.126	0.951	1	07/11/07 03:57	SW846 8270C	7071161
2-Nitroaniline	<0.128		mg/kg dry	0.128	0.951	1	07/11/07 03:57	SW846 8270C	7071161
4-Nitroaniline	<0.132		mg/kg dry	0.132	0.951	1	07/11/07 03:57	SW846 8270C	7071161
Nitrobenzene	<0.128		mg/kg dry	0.128	0.380	1	07/11/07 03:57	SW846 8270C	7071161
4-Nitrophenol	<0.136		mg/kg dry	0.136	0.951	1	07/11/07 03:57	SW846 8270C	7071161
2-Nitrophenol	<0.226		mg/kg dry	0.226	0.380	1	07/11/07 03:57	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.211		mg/kg dry	0.211	0.380	1	07/11/07 03:57	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.129		mg/kg dry	0.129	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Pentachlorophenol	<0.172		mg/kg dry	0.172	0.951	1	07/11/07 03:57	SW846 8270C	7071161
Phenanthrene	<0.0457		mg/kg dry	0.0457	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Phenol	<0.132		mg/kg dry	0.132	0.380	1	07/11/07 03:57	SW846 8270C	7071161
Pyrene	<0.0537		mg/kg dry	0.0537	0.380	1	07/11/07 03:57	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.113		mg/kg dry	0.113	0.380	1	07/11/07 03:57	SW846 8270C	7071161
1-Methylnaphthalene	<0.0411		mg/kg dry	0.0411	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.110		mg/kg dry	0.110	0.380	1	07/11/07 03:57	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.129		mg/kg dry	0.129	0.951	1	07/11/07 03:57	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*75 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*84 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*74 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*68 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*74 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*73 %*					*1*	*07/11/07 03:57*	*SW846 8270C*	*7071161*

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-03 (SUB-3 (8'-10') - Soil) Sampled: 06/25/07 11:25									
General Chemistry Parameters									
% Dry Solids	**86.0**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**9.44**		mg/kg dry	0.952	1.11	1	07/06/07 09:57	SW846 6010B	7065534
Barium	**105**		mg/kg dry	0.332	2.21	1	07/06/07 09:57	SW846 6010B	7065534
Cadmium	**0.687**	J	mg/kg dry	0.221	1.11	1	07/06/07 09:57	SW846 6010B	7065534
Chromium	**28.0**		mg/kg dry	0.332	1.11	1	07/06/07 09:57	SW846 6010B	7065534
Lead	**16.5**		mg/kg dry	0.997	1.11	1	07/06/07 09:57	SW846 6010B	7065534
Selenium	**3.81**		mg/kg dry	1.66	2.21	1	07/06/07 09:57	SW846 6010B	7065534
Silver	<0.554		mg/kg dry	0.554	1.11	1	07/06/07 09:57	SW846 6010B	7065534
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0727**	J	mg/kg dry	0.0336	0.112	1	07/06/07 08:28	SW846 7471A	7070075
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.411		mg/kg dry	0.411	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Acenaphthylene	<0.502		mg/kg dry	0.502	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Anthracene	<0.457		mg/kg dry	0.457	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Benzo (a) anthracene	<0.422		mg/kg dry	0.422	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Benzo (a) pyrene	<0.457		mg/kg dry	0.457	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.434		mg/kg dry	0.434	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.308		mg/kg dry	0.308	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.525		mg/kg dry	0.525	3.80	10	07/06/07 22:20	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<1.37		mg/kg dry	1.37	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Butyl benzyl phthalate	<1.50		mg/kg dry	1.50	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Carbazole	<1.51		mg/kg dry	1.51	3.80	10	07/06/07 22:20	SW846 8270C	7065633
4-Chloro-3-methylphenol	<1.37		mg/kg dry	1.37	3.80	10	07/06/07 22:20	SW846 8270C	7065633
4-Chloroaniline	<1.05		mg/kg dry	1.05	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<1.30		mg/kg dry	1.30	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<1.20		mg/kg dry	1.20	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<1.64		mg/kg dry	1.64	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2-Chloronaphthalene	<1.04		mg/kg dry	1.04	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2-Chlorophenol	<1.35		mg/kg dry	1.35	3.80	10	07/06/07 22:20	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<1.42		mg/kg dry	1.42	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Chrysene	<0.445		mg/kg dry	0.445	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Dibenz (a,h) anthracene	<0.297		mg/kg dry	0.297	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Dibenzofuran	<1.64		mg/kg dry	1.64	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Di-n-butyl phthalate	<1.50		mg/kg dry	1.50	3.80	10	07/06/07 22:20	SW846 8270C	7065633
1,4-Dichlorobenzene	<1.12		mg/kg dry	1.12	3.80	10	07/06/07 22:20	SW846 8270C	7065633
1,2-Dichlorobenzene	<1.05		mg/kg dry	1.05	3.80	10	07/06/07 22:20	SW846 8270C	7065633
1,3-Dichlorobenzene	<1.21		mg/kg dry	1.21	3.80	10	07/06/07 22:20	SW846 8270C	7065633
3,3-Dichlorobenzidine	<2.09		mg/kg dry	2.09	7.62	10	07/06/07 22:20	SW846 8270C	7065633
2,4-Dichlorophenol	<2.04		mg/kg dry	2.04	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Diethyl phthalate	<1.06		mg/kg dry	1.06	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2,4-Dimethylphenol	<1.30		mg/kg dry	1.30	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Dimethyl phthalate	<1.35		mg/kg dry	1.35	3.80	10	07/06/07 22:20	SW846 8270C	7065633

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-03RE1 (SUB-3 (8'-10') - Soil) - cont. Sampled: 06/25/07 11:25									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
4,6-Dinitro-2-methylphenol	<2.24		mg/kg dry	2.24	9.51	10	07/06/07 22:20	SW846 8270C	7065633
2,4-Dinitrophenol	<3.03		mg/kg dry	3.03	9.51	10	07/06/07 22:20	SW846 8270C	7065633
2,6-Dinitrotoluene	<1.39		mg/kg dry	1.39	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2,4-Dinitrotoluene	<1.64		mg/kg dry	1.64	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Di-n-octyl phthalate	<1.51		mg/kg dry	1.51	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<1.85		mg/kg dry	1.85	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Fluoranthene	<0.480		mg/kg dry	0.480	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Fluorene	<0.491		mg/kg dry	0.491	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Hexachlorobenzene	<1.55		mg/kg dry	1.55	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Hexachlorobutadiene	<1.34		mg/kg dry	1.34	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Hexachlorocyclopentadiene	<1.44		mg/kg dry	1.44	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Hexachloroethane	<1.18		mg/kg dry	1.18	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.388		mg/kg dry	0.388	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Isophorone	<1.52		mg/kg dry	1.52	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2-Methylnaphthalene	<0.411		mg/kg dry	0.411	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2-Methylphenol	<1.32		mg/kg dry	1.32	3.80	10	07/06/07 22:20	SW846 8270C	7065633
3/4-Methylphenol	<1.44		mg/kg dry	1.44	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Naphthalene	<0.457		mg/kg dry	0.457	3.80	10	07/06/07 22:20	SW846 8270C	7065633
3-Nitroaniline	<1.26		mg/kg dry	1.26	9.51	10	07/06/07 22:20	SW846 8270C	7065633
2-Nitroaniline	<1.28		mg/kg dry	1.28	9.51	10	07/06/07 22:20	SW846 8270C	7065633
4-Nitroaniline	<1.32		mg/kg dry	1.32	9.51	10	07/06/07 22:20	SW846 8270C	7065633
Nitrobenzene	<1.28		mg/kg dry	1.28	3.80	10	07/06/07 22:20	SW846 8270C	7065633
4-Nitrophenol	<1.36		mg/kg dry	1.36	9.51	10	07/06/07 22:20	SW846 8270C	7065633
2-Nitrophenol	<2.26		mg/kg dry	2.26	3.80	10	07/06/07 22:20	SW846 8270C	7065633
N-Nitrosodiphenylamine	<2.11		mg/kg dry	2.11	3.80	10	07/06/07 22:20	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<1.29		mg/kg dry	1.29	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Pentachlorophenol	<1.72		mg/kg dry	1.72	9.51	10	07/06/07 22:20	SW846 8270C	7065633
Phenanthrene	<0.457		mg/kg dry	0.457	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Phenol	<1.32		mg/kg dry	1.32	3.80	10	07/06/07 22:20	SW846 8270C	7065633
Pyrene	<0.537		mg/kg dry	0.537	3.80	10	07/06/07 22:20	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<1.13		mg/kg dry	1.13	3.80	10	07/06/07 22:20	SW846 8270C	7065633
1-Methylnaphthalene	<0.411		mg/kg dry	0.411	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2,4,6-Trichlorophenol	<1.10		mg/kg dry	1.10	3.80	10	07/06/07 22:20	SW846 8270C	7065633
2,4,5-Trichlorophenol	<1.29		mg/kg dry	1.29	9.51	10	07/06/07 22:20	SW846 8270C	7065633
Surr: Terphenyl-d14 (49-123%)	*78 %*					*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*	*Z3*				*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*	*Z3*				*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*45 %*					*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*	*Z3*				*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*40 %*					*10*	*07/06/07 22:20*	*SW846 8270C*	*7065633*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-04 (SS-1 (0-2') - Soil) Sampled: 06/25/07 13:15									
General Chemistry Parameters									
% Dry Solids	**93.4**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**5.53**		mg/kg dry	0.897	1.04	1	07/02/07 19:40	SW846 6010B	7065535
Barium	**254**		mg/kg dry	0.313	2.09	1	07/02/07 19:40	SW846 6010B	7065535
Cadmium	<0.209		mg/kg dry	0.209	1.04	1	07/02/07 19:40	SW846 6010B	7065535
Chromium	**31.8**		mg/kg dry	0.313	1.04	1	07/02/07 19:40	SW846 6010B	7065535
Lead	**21.5**		mg/kg dry	0.939	1.04	1	07/02/07 19:40	SW846 6010B	7065535
Selenium	<1.57		mg/kg dry	1.57	2.09	1	07/02/07 19:40	SW846 6010B	7065535
Silver	<0.522		mg/kg dry	0.522	1.04	1	07/02/07 19:40	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0529**	J	mg/kg dry	0.0324	0.108	1	07/05/07 09:14	SW846 7471A	7070076
Sample ID: NQF3703-05 (SS-2 (0-2') - Soil) Sampled: 06/25/07 13:30									
General Chemistry Parameters									
% Dry Solids	**95.4**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**0.893**	J	mg/kg dry	0.893	1.04	1	07/02/07 19:44	SW846 6010B	7065535
Barium	**118**		mg/kg dry	0.311	2.08	1	07/02/07 19:44	SW846 6010B	7065535
Cadmium	<0.208		mg/kg dry	0.208	1.04	1	07/02/07 19:44	SW846 6010B	7065535
Chromium	**9.49**		mg/kg dry	0.311	1.04	1	07/02/07 19:44	SW846 6010B	7065535
Lead	**10.6**		mg/kg dry	0.934	1.04	1	07/02/07 19:44	SW846 6010B	7065535
Selenium	<1.56		mg/kg dry	1.56	2.08	1	07/02/07 19:44	SW846 6010B	7065535
Silver	<0.519		mg/kg dry	0.519	1.04	1	07/02/07 19:44	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0305		mg/kg dry	0.0305	0.102	1	07/05/07 09:17	SW846 7471A	7070076
Sample ID: NQF3703-06 (SS-3 (0-2') - Soil) Sampled: 06/25/07 13:40									
General Chemistry Parameters									
% Dry Solids	**95.3**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	<0.883		mg/kg dry	0.883	1.03	1	07/02/07 19:49	SW846 6010B	7065535
Barium	**64.9**		mg/kg dry	0.308	2.05	1	07/02/07 19:49	SW846 6010B	7065535
Cadmium	<0.205		mg/kg dry	0.205	1.03	1	07/02/07 19:49	SW846 6010B	7065535
Chromium	**12.7**		mg/kg dry	0.308	1.03	1	07/02/07 19:49	SW846 6010B	7065535
Lead	**8.38**		mg/kg dry	0.924	1.03	1	07/02/07 19:49	SW846 6010B	7065535
Selenium	<1.54		mg/kg dry	1.54	2.05	1	07/02/07 19:49	SW846 6010B	7065535
Silver	<0.513		mg/kg dry	0.513	1.03	1	07/02/07 19:49	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0311		mg/kg dry	0.0311	0.104	1	07/05/07 09:19	SW846 7471A	7070076
Sample ID: NQF3703-07 (SS-4 (0-2') - Soil) Sampled: 06/25/07 13:45									

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-07 (SS-4 (0-2') - Soil) - cont. Sampled: 06/25/07 13:45									
General Chemistry Parameters									
% Dry Solids	**94.8**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**15.7**		mg/kg dry	0.872	1.01	1	07/02/07 19:54	SW846 6010B	7065535
Barium	**268**		mg/kg dry	0.304	2.03	1	07/02/07 19:54	SW846 6010B	7065535
Cadmium	<0.203		mg/kg dry	0.203	1.01	1	07/02/07 19:54	SW846 6010B	7065535
Chromium	**30.8**		mg/kg dry	0.304	1.01	1	07/02/07 19:54	SW846 6010B	7065535
Lead	**18.7**		mg/kg dry	0.913	1.01	1	07/02/07 19:54	SW846 6010B	7065535
Selenium	**1.70**	J	mg/kg dry	1.52	2.03	1	07/02/07 19:54	SW846 6010B	7065535
Silver	<0.507		mg/kg dry	0.507	1.01	1	07/02/07 19:54	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0315		mg/kg dry	0.0315	0.105	1	07/05/07 09:21	SW846 7471A	7070076
Sample ID: NQF3703-08 (SS-5 (0-2') - Soil) Sampled: 06/25/07 14:35									
General Chemistry Parameters									
% Dry Solids	**88.8**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**2.95**		mg/kg dry	0.955	1.11	1	07/02/07 19:59	SW846 6010B	7065535
Barium	**32.6**		mg/kg dry	0.333	2.22	1	07/02/07 19:59	SW846 6010B	7065535
Cadmium	<0.222		mg/kg dry	0.222	1.11	1	07/02/07 19:59	SW846 6010B	7065535
Chromium	**17.7**		mg/kg dry	0.333	1.11	1	07/02/07 19:59	SW846 6010B	7065535
Lead	**13.9**		mg/kg dry	1.00	1.11	1	07/02/07 19:59	SW846 6010B	7065535
Selenium	<1.67		mg/kg dry	1.67	2.22	1	07/02/07 19:59	SW846 6010B	7065535
Silver	<0.555		mg/kg dry	0.555	1.11	1	07/02/07 19:59	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0576**	J	mg/kg dry	0.0333	0.111	1	07/05/07 09:23	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000555		mg/kg dry	0.000555	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
delta-BHC	<0.000666		mg/kg dry	0.000666	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
alpha-BHC	<0.000444		mg/kg dry	0.000444	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
beta-BHC	<0.00167		mg/kg dry	0.00167	0.00366	1	07/06/07 14:36	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000888		mg/kg dry	0.000888	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
alpha-Chlordane	<0.00178		mg/kg dry	0.00178	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
gamma-Chlordane	<0.000777		mg/kg dry	0.000777	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Chlordane	<0.0133		mg/kg dry	0.0133	0.0741	1	07/06/07 14:36	SW846 8081A	7065631
4,4'-DDD	<0.000666		mg/kg dry	0.000666	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
4,4'-DDE	<0.000777		mg/kg dry	0.000777	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
4,4'-DDT	<0.000777		mg/kg dry	0.000777	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Dieldrin	<0.000555		mg/kg dry	0.000555	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Endosulfan I	<0.000888		mg/kg dry	0.000888	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Endosulfan II	<0.00111		mg/kg dry	0.00111	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Endosulfan sulfate	<0.000666		mg/kg dry	0.000666	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Endrin	<0.000888		mg/kg dry	0.000888	0.00189	1	07/06/07 14:36	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-08 (SS-5 (0-2') - Soil) - cont. Sampled: 06/25/07 14:35									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Endrin aldehyde	<0.000666		mg/kg dry	0.000666	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Endrin ketone	<0.00167		mg/kg dry	0.00167	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Heptachlor	<0.000888		mg/kg dry	0.000888	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Heptachlor epoxide	<0.00167		mg/kg dry	0.00167	0.00189	1	07/06/07 14:36	SW846 8081A	7065631
Methoxychlor	<0.00111		mg/kg dry	0.00111	0.00366	1	07/06/07 14:36	SW846 8081A	7065631
Toxaphene	<0.0322		mg/kg dry	0.0322	0.0741	1	07/06/07 14:36	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*132 %*					*1*	*07/06/07 14:36*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*106 %*					*1*	*07/06/07 14:36*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0135		mg/kg dry	0.0135	0.0751	1	07/06/07 19:08	SW846 8151A	7065630
2,4,5-T	<0.0113		mg/kg dry	0.0113	0.0372	1	07/06/07 19:08	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0124		mg/kg dry	0.0124	0.0191	1	07/06/07 19:08	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*70 %*					*1*	*07/06/07 19:08*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-08 (SS-5 (0-2') - Soil) - cont. Sampled: 06/25/07 14:35

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-09 (SUB-4 (2'-3') - Soil) Sampled: 06/25/07 14:36									
General Chemistry Parameters									
% Dry Solids	**89.2**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	<0.962		mg/kg dry	0.962	1.12	1	07/02/07 20:04	SW846 6010B	7065535
Barium	**17.9**		mg/kg dry	0.336	2.24	1	07/02/07 20:04	SW846 6010B	7065535
Cadmium	<0.224		mg/kg dry	0.224	1.12	1	07/02/07 20:04	SW846 6010B	7065535
Chromium	**12.3**		mg/kg dry	0.336	1.12	1	07/02/07 20:04	SW846 6010B	7065535
Lead	**10.6**		mg/kg dry	1.01	1.12	1	07/02/07 20:04	SW846 6010B	7065535
Selenium	<1.68		mg/kg dry	1.68	2.24	1	07/02/07 20:04	SW846 6010B	7065535
Silver	<0.559		mg/kg dry	0.559	1.12	1	07/02/07 20:04	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0329		mg/kg dry	0.0329	0.110	1	07/05/07 09:29	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000554		mg/kg dry	0.000554	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
delta-BHC	<0.000665		mg/kg dry	0.000665	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
alpha-BHC	<0.000443		mg/kg dry	0.000443	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
beta-BHC	<0.00166		mg/kg dry	0.00166	0.00366	1	07/06/07 15:05	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000887		mg/kg dry	0.000887	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
alpha-Chlordane	<0.00177		mg/kg dry	0.00177	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
gamma-Chlordane	<0.000776		mg/kg dry	0.000776	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Chlordane	<0.0133		mg/kg dry	0.0133	0.0739	1	07/06/07 15:05	SW846 8081A	7065631
4,4'-DDD	<0.000665		mg/kg dry	0.000665	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
4,4'-DDE	<0.000776		mg/kg dry	0.000776	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
4,4'-DDT	<0.000776		mg/kg dry	0.000776	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Dieldrin	<0.000554		mg/kg dry	0.000554	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endosulfan I	<0.000887		mg/kg dry	0.000887	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endosulfan II	<0.00111		mg/kg dry	0.00111	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endosulfan sulfate	<0.000665		mg/kg dry	0.000665	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endrin	<0.000887		mg/kg dry	0.000887	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endrin aldehyde	<0.000665		mg/kg dry	0.000665	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Endrin ketone	<0.00166		mg/kg dry	0.00166	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Heptachlor	<0.000887		mg/kg dry	0.000887	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Heptachlor epoxide	<0.00166		mg/kg dry	0.00166	0.00188	1	07/06/07 15:05	SW846 8081A	7065631
Methoxychlor	<0.00111		mg/kg dry	0.00111	0.00366	1	07/06/07 15:05	SW846 8081A	7065631
Toxaphene	<0.0321		mg/kg dry	0.0321	0.0739	1	07/06/07 15:05	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*110 %*					*1*	*07/06/07 15:05*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*84 %*					*1*	*07/06/07 15:05*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0135		mg/kg dry	0.0135	0.0748	1	07/06/07 19:39	SW846 8151A	7065630
2,4,5-T	<0.0112		mg/kg dry	0.0112	0.0370	1	07/06/07 19:39	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0123		mg/kg dry	0.0123	0.0191	1	07/06/07 19:39	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*66 %*					*1*	*07/06/07 19:39*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-09 (SUB-4 (2'-3') - Soil) - cont. Sampled: 06/25/07 14:36

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-10 (SS-6 (0-2') - Soil) Sampled: 06/26/07 08:40									
General Chemistry Parameters									
% Dry Solids	**92.0**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**1.20**		mg/kg dry	0.940	1.09	1	07/02/07 20:08	SW846 6010B	7065535
Barium	**37.0**		mg/kg dry	0.328	2.19	1	07/02/07 20:08	SW846 6010B	7065535
Cadmium	<0.219		mg/kg dry	0.219	1.09	1	07/02/07 20:08	SW846 6010B	7065535
Chromium	**8.18**		mg/kg dry	0.328	1.09	1	07/02/07 20:08	SW846 6010B	7065535
Lead	**43.9**		mg/kg dry	0.984	1.09	1	07/02/07 20:08	SW846 6010B	7065535
Selenium	<1.64		mg/kg dry	1.64	2.19	1	07/02/07 20:08	SW846 6010B	7065535
Silver	<0.547		mg/kg dry	0.547	1.09	1	07/02/07 20:08	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0477**	J	mg/kg dry	0.0317	0.106	1	07/05/07 09:31	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000528		mg/kg dry	0.000528	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
delta-BHC	<0.000634		mg/kg dry	0.000634	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
alpha-BHC	<0.000422		mg/kg dry	0.000422	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
beta-BHC	<0.00158		mg/kg dry	0.00158	0.00348	1	07/06/07 15:34	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000845		mg/kg dry	0.000845	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
alpha-Chlordane	<0.00169		mg/kg dry	0.00169	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
gamma-Chlordane	<0.000739		mg/kg dry	0.000739	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Chlordane	<0.0127		mg/kg dry	0.0127	0.0704	1	07/06/07 15:34	SW846 8081A	7065631
4,4'-DDD	<0.000634		mg/kg dry	0.000634	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
4,4'-DDE	<0.000739		mg/kg dry	0.000739	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
4,4'-DDT	<0.000739		mg/kg dry	0.000739	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Dieldrin	<0.000528		mg/kg dry	0.000528	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endosulfan I	<0.000845		mg/kg dry	0.000845	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endosulfan II	<0.00106		mg/kg dry	0.00106	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endosulfan sulfate	<0.000634		mg/kg dry	0.000634	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endrin	<0.000845		mg/kg dry	0.000845	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endrin aldehyde	<0.000634		mg/kg dry	0.000634	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Endrin ketone	<0.00158		mg/kg dry	0.00158	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Heptachlor	<0.000845		mg/kg dry	0.000845	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Heptachlor epoxide	<0.00158		mg/kg dry	0.00158	0.00180	1	07/06/07 15:34	SW846 8081A	7065631
Methoxychlor	<0.00106		mg/kg dry	0.00106	0.00348	1	07/06/07 15:34	SW846 8081A	7065631
Toxaphene	<0.0306		mg/kg dry	0.0306	0.0704	1	07/06/07 15:34	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*164 %*					*1*	*07/06/07 15:34*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*112 %*					*1*	*07/06/07 15:34*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0130		mg/kg dry	0.0130	0.0725	1	07/11/07 02:53	SW846 8151A	7070741
2,4,5-T	<0.0109		mg/kg dry	0.0109	0.0359	1	07/11/07 02:53	SW846 8151A	7070741
2,4,5-TP (Silvex)	<0.0120		mg/kg dry	0.0120	0.0185	1	07/11/07 02:53	SW846 8151A	7070741
Surr: Dichloroacetic Acid (27-162%)	*62 %*					*1*	*07/11/07 02:53*	*SW846 8151A*	*7070741*

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	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-10 (SS-6 (0-2') - Soil) - cont. Sampled: 06/26/07 08:40

Subcontracted Analysis

See Attached Report

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-11 (SS-7 (0-2') - Soil) Sampled: 06/26/07 08:50									
General Chemistry Parameters									
% Dry Solids	**81.5**		%	0.500	0.500	1	07/09/07 18:52	SW-846	7070856
Total Metals by EPA Method 6010B									
Arsenic	**11.2**		mg/kg dry	1.03	1.20	1	07/06/07 10:01	SW846 6010B	7065534
Barium	**38.1**		mg/kg dry	0.360	2.40	1	07/06/07 10:01	SW846 6010B	7065534
Cadmium	**1.49**		mg/kg dry	0.240	1.20	1	07/06/07 10:01	SW846 6010B	7065534
Chromium	**19.6**		mg/kg dry	0.360	1.20	1	07/06/07 10:01	SW846 6010B	7065534
Lead	**69.9**		mg/kg dry	1.08	1.20	1	07/06/07 10:01	SW846 6010B	7065534
Selenium	**6.65**		mg/kg dry	1.80	2.40	1	07/06/07 10:01	SW846 6010B	7065534
Silver	<0.600		mg/kg dry	0.600	1.20	1	07/06/07 10:01	SW846 6010B	7065534
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0450**	J	mg/kg dry	0.0357	0.119	1	07/06/07 08:30	SW846 7471A	7070075
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000605		mg/kg dry	0.000605	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
delta-BHC	<0.000726		mg/kg dry	0.000726	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
alpha-BHC	<0.000484		mg/kg dry	0.000484	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
beta-BHC	<0.00181		mg/kg dry	0.00181	0.00399	1	07/06/07 16:04	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000967		mg/kg dry	0.000967	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
alpha-Chlordane	<0.00193		mg/kg dry	0.00193	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
gamma-Chlordane	<0.000846		mg/kg dry	0.000846	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Chlordane	<0.0145		mg/kg dry	0.0145	0.0807	1	07/06/07 16:04	SW846 8081A	7065631
4,4'-DDD	<0.000726		mg/kg dry	0.000726	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
4,4'-DDE	<0.000846		mg/kg dry	0.000846	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
4,4'-DDT	<0.000846		mg/kg dry	0.000846	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Dieldrin	<0.000605		mg/kg dry	0.000605	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endosulfan I	<0.000967		mg/kg dry	0.000967	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endosulfan II	<0.00121		mg/kg dry	0.00121	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endosulfan sulfate	<0.000726		mg/kg dry	0.000726	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endrin	<0.000967		mg/kg dry	0.000967	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endrin aldehyde	<0.000726		mg/kg dry	0.000726	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Endrin ketone	<0.00181		mg/kg dry	0.00181	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Heptachlor	<0.000967		mg/kg dry	0.000967	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Heptachlor epoxide	<0.00181		mg/kg dry	0.00181	0.00206	1	07/06/07 16:04	SW846 8081A	7065631
Methoxychlor	<0.00121		mg/kg dry	0.00121	0.00399	1	07/06/07 16:04	SW846 8081A	7065631
Toxaphene	<0.0351		mg/kg dry	0.0351	0.0807	1	07/06/07 16:04	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*136 %*					*1*	*07/06/07 16:04*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*108 %*					*1*	*07/06/07 16:04*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0147		mg/kg dry	0.0147	0.0818	1	07/06/07 20:10	SW846 8151A	7065630
2,4,5-T	<0.0123		mg/kg dry	0.0123	0.0405	1	07/06/07 20:10	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0135		mg/kg dry	0.0135	0.0209	1	07/06/07 20:10	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*71 %*					*1*	*07/06/07 20:10*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-11 (SS-7 (0-2') - Soil) - cont. Sampled: 06/26/07 08:50

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-12 (SUB-5 (2'-3') - Soil) Sampled: 06/26/07 08:51									
General Chemistry Parameters									
% Dry Solids	**92.3**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**3.66**		mg/kg dry	0.905	1.05	1	07/06/07 10:06	SW846 6010B	7065534
Barium	**28.5**		mg/kg dry	0.316	2.10	1	07/06/07 10:06	SW846 6010B	7065534
Cadmium	**0.547**	J	mg/kg dry	0.210	1.05	1	07/06/07 10:06	SW846 6010B	7065534
Chromium	**13.0**		mg/kg dry	0.316	1.05	1	07/06/07 10:06	SW846 6010B	7065534
Lead	**5.57**		mg/kg dry	0.947	1.05	1	07/06/07 10:06	SW846 6010B	7065534
Selenium	**3.28**		mg/kg dry	1.58	2.10	1	07/06/07 10:06	SW846 6010B	7065534
Silver	<0.526		mg/kg dry	0.526	1.05	1	07/06/07 10:06	SW846 6010B	7065534
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0327		mg/kg dry	0.0327	0.109	1	07/06/07 08:32	SW846 7471A	7070075
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000538		mg/kg dry	0.000538	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
delta-BHC	<0.000646		mg/kg dry	0.000646	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
alpha-BHC	<0.000430		mg/kg dry	0.000430	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
beta-BHC	<0.00161		mg/kg dry	0.00161	0.00355	1	07/06/07 16:33	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000861		mg/kg dry	0.000861	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
alpha-Chlordane	<0.00172		mg/kg dry	0.00172	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
gamma-Chlordane	<0.000753		mg/kg dry	0.000753	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Chlordane	<0.0129		mg/kg dry	0.0129	0.0718	1	07/06/07 16:33	SW846 8081A	7065631
4,4'-DDD	<0.000646		mg/kg dry	0.000646	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
4,4'-DDE	<0.000753		mg/kg dry	0.000753	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
4,4'-DDT	<0.000753		mg/kg dry	0.000753	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Dieldrin	<0.000538		mg/kg dry	0.000538	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endosulfan I	<0.000861		mg/kg dry	0.000861	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endosulfan II	<0.00108		mg/kg dry	0.00108	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endosulfan sulfate	<0.000646		mg/kg dry	0.000646	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endrin	<0.000861		mg/kg dry	0.000861	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endrin aldehyde	<0.000646		mg/kg dry	0.000646	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Endrin ketone	<0.00161		mg/kg dry	0.00161	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Heptachlor	<0.000861		mg/kg dry	0.000861	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Heptachlor epoxide	<0.00161		mg/kg dry	0.00161	0.00183	1	07/06/07 16:33	SW846 8081A	7065631
Methoxychlor	<0.00108		mg/kg dry	0.00108	0.00355	1	07/06/07 16:33	SW846 8081A	7065631
Toxaphene	<0.0312		mg/kg dry	0.0312	0.0718	1	07/06/07 16:33	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*118 %*					*1*	*07/06/07 16:33*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*114 %*					*1*	*07/06/07 16:33*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0130		mg/kg dry	0.0130	0.0723	1	07/06/07 20:41	SW846 8151A	7065630
2,4,5-T	<0.0108		mg/kg dry	0.0108	0.0358	1	07/06/07 20:41	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0119		mg/kg dry	0.0119	0.0184	1	07/06/07 20:41	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*65 %*					*1*	*07/06/07 20:41*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-12 (SUB-5 (2'-3') - Soil) - cont. Sampled: 06/26/07 08:51

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-13 (SS-8 (0-2') - Soil) Sampled: 06/26/07 09:10									
General Chemistry Parameters									
% Dry Solids	**91.4**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	<0.932		mg/kg dry	0.932	1.08	1	07/02/07 20:13	SW846 6010B	7065535
Barium	**95.2**		mg/kg dry	0.325	2.17	1	07/02/07 20:13	SW846 6010B	7065535
Cadmium	<0.217		mg/kg dry	0.217	1.08	1	07/02/07 20:13	SW846 6010B	7065535
Chromium	**18.3**		mg/kg dry	0.325	1.08	1	07/02/07 20:13	SW846 6010B	7065535
Lead	**13.0**		mg/kg dry	0.975	1.08	1	07/02/07 20:13	SW846 6010B	7065535
Selenium	<1.62		mg/kg dry	1.62	2.17	1	07/02/07 20:13	SW846 6010B	7065535
Silver	<0.542		mg/kg dry	0.542	1.08	1	07/02/07 20:13	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0484**	J	mg/kg dry	0.0330	0.110	1	07/05/07 09:33	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000536		mg/kg dry	0.000536	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
delta-BHC	<0.000643		mg/kg dry	0.000643	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
alpha-BHC	<0.000429		mg/kg dry	0.000429	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
beta-BHC	<0.00161		mg/kg dry	0.00161	0.00354	1	07/06/07 17:02	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000858		mg/kg dry	0.000858	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
alpha-Chlordane	<0.00172		mg/kg dry	0.00172	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
gamma-Chlordane	<0.000751		mg/kg dry	0.000751	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Chlordane	<0.0129		mg/kg dry	0.0129	0.0715	1	07/06/07 17:02	SW846 8081A	7065631
4,4'-DDD	<0.000643		mg/kg dry	0.000643	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
4,4'-DDE	<0.000751		mg/kg dry	0.000751	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
4,4'-DDT	<0.000751		mg/kg dry	0.000751	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Dieldrin	<0.000536		mg/kg dry	0.000536	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endosulfan I	<0.000858		mg/kg dry	0.000858	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endosulfan II	<0.00107		mg/kg dry	0.00107	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endosulfan sulfate	<0.000643		mg/kg dry	0.000643	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endrin	<0.000858		mg/kg dry	0.000858	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endrin aldehyde	<0.000643		mg/kg dry	0.000643	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Endrin ketone	<0.00161		mg/kg dry	0.00161	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Heptachlor	<0.000858		mg/kg dry	0.000858	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Heptachlor epoxide	<0.00161		mg/kg dry	0.00161	0.00182	1	07/06/07 17:02	SW846 8081A	7065631
Methoxychlor	<0.00107		mg/kg dry	0.00107	0.00354	1	07/06/07 17:02	SW846 8081A	7065631
Toxaphene	<0.0311		mg/kg dry	0.0311	0.0715	1	07/06/07 17:02	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*98 %*					*1*	*07/06/07 17:02*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*100 %*					*1*	*07/06/07 17:02*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0131		mg/kg dry	0.0131	0.0730	1	07/06/07 21:12	SW846 8151A	7065630
2,4,5-T	<0.0109		mg/kg dry	0.0109	0.0361	1	07/06/07 21:12	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0120		mg/kg dry	0.0120	0.0186	1	07/06/07 21:12	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*69 %*					*1*	*07/06/07 21:12*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-13 (SS-8 (0-2') - Soil) - cont. Sampled: 06/26/07 09:10

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-14 (SUB-6 (6'-8') - Soil) Sampled: 06/26/07 09:15									
General Chemistry Parameters									
% Dry Solids	**81.4**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	<1.01		mg/kg dry	1.01	1.17	1	07/02/07 20:18	SW846 6010B	7065535
Barium	**164**		mg/kg dry	0.352	2.34	1	07/02/07 20:18	SW846 6010B	7065535
Cadmium	<0.234		mg/kg dry	0.234	1.17	1	07/02/07 20:18	SW846 6010B	7065535
Chromium	**20.8**		mg/kg dry	0.352	1.17	1	07/02/07 20:18	SW846 6010B	7065535
Lead	**27.8**		mg/kg dry	1.06	1.17	1	07/02/07 20:18	SW846 6010B	7065535
Selenium	<1.76		mg/kg dry	1.76	2.34	1	07/02/07 20:18	SW846 6010B	7065535
Silver	<0.586		mg/kg dry	0.586	1.17	1	07/02/07 20:18	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.277**		mg/kg dry	0.0354	0.118	1	07/05/07 09:35	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000603		mg/kg dry	0.000603	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
delta-BHC	<0.000724		mg/kg dry	0.000724	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
alpha-BHC	<0.000483		mg/kg dry	0.000483	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
beta-BHC	<0.00181		mg/kg dry	0.00181	0.00398	1	07/06/07 18:59	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000965		mg/kg dry	0.000965	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
alpha-Chlordane	<0.00193		mg/kg dry	0.00193	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
gamma-Chlordane	<0.000844		mg/kg dry	0.000844	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Chlordane	<0.0145		mg/kg dry	0.0145	0.0805	1	07/06/07 18:59	SW846 8081A	7065631
4,4'-DDD	<0.000724		mg/kg dry	0.000724	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
4,4'-DDE	<0.000844		mg/kg dry	0.000844	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
4,4'-DDT	<0.000844		mg/kg dry	0.000844	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Dieldrin	<0.000603		mg/kg dry	0.000603	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endosulfan I	<0.000965		mg/kg dry	0.000965	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endosulfan II	<0.00121		mg/kg dry	0.00121	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endosulfan sulfate	<0.000724		mg/kg dry	0.000724	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endrin	<0.000965		mg/kg dry	0.000965	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endrin aldehyde	<0.000724		mg/kg dry	0.000724	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Endrin ketone	<0.00181		mg/kg dry	0.00181	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Heptachlor	<0.000965		mg/kg dry	0.000965	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Heptachlor epoxide	<0.00181		mg/kg dry	0.00181	0.00205	1	07/06/07 18:59	SW846 8081A	7065631
Methoxychlor	<0.00121		mg/kg dry	0.00121	0.00398	1	07/06/07 18:59	SW846 8081A	7065631
Toxaphene	<0.0350		mg/kg dry	0.0350	0.0805	1	07/06/07 18:59	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*126 %*					*1*	*07/06/07 18:59*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*106 %*					*1*	*07/06/07 18:59*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0147		mg/kg dry	0.0147	0.0819	1	07/06/07 22:14	SW846 8151A	7065630
2,4,5-T	<0.0123		mg/kg dry	0.0123	0.0405	1	07/06/07 22:14	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0135		mg/kg dry	0.0135	0.0209	1	07/06/07 22:14	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*104 %*					*1*	*07/06/07 22:14*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-14 (SUB-6 (6'-8') - Soil) - cont. Sampled: 06/26/07 09:15

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-15 (SS-9 (0-2') - Soil) Sampled: 06/26/07 09:25									
General Chemistry Parameters									
% Dry Solids	**95.5**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**8.76**	M8	mg/kg dry	0.874	1.02	1	07/06/07 10:12	SW846 6010B	7065534
Barium	**11.2**		mg/kg dry	0.305	2.03	1	07/06/07 10:12	SW846 6010B	7065534
Cadmium	**0.427**	J	mg/kg dry	0.203	1.02	1	07/06/07 10:12	SW846 6010B	7065534
Chromium	**11.5**		mg/kg dry	0.305	1.02	1	07/06/07 10:12	SW846 6010B	7065534
Lead	**13.2**		mg/kg dry	0.915	1.02	1	07/06/07 10:12	SW846 6010B	7065534
Selenium	**2.72**		mg/kg dry	1.52	2.03	1	07/06/07 10:12	SW846 6010B	7065534
Silver	<0.508		mg/kg dry	0.508	1.02	1	07/06/07 10:12	SW846 6010B	7065534
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0316		mg/kg dry	0.0316	0.105	1	07/06/07 08:35	SW846 7471A	7070075
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000515		mg/kg dry	0.000515	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
delta-BHC	<0.000618		mg/kg dry	0.000618	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
alpha-BHC	<0.000412		mg/kg dry	0.000412	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
beta-BHC	<0.00154		mg/kg dry	0.00154	0.00340	1	07/06/07 19:28	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000824		mg/kg dry	0.000824	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
alpha-Chlordane	<0.00165		mg/kg dry	0.00165	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
gamma-Chlordane	<0.000721		mg/kg dry	0.000721	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Chlordane	<0.0124		mg/kg dry	0.0124	0.0687	1	07/06/07 19:28	SW846 8081A	7065631
4,4'-DDD	<0.000618		mg/kg dry	0.000618	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
4,4'-DDE	<0.000721		mg/kg dry	0.000721	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
4,4'-DDT	<0.000721		mg/kg dry	0.000721	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Dieldrin	<0.000515		mg/kg dry	0.000515	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endosulfan I	<0.000824		mg/kg dry	0.000824	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endosulfan II	<0.00103		mg/kg dry	0.00103	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endosulfan sulfate	<0.000618		mg/kg dry	0.000618	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endrin	<0.000824		mg/kg dry	0.000824	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endrin aldehyde	<0.000618		mg/kg dry	0.000618	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Endrin ketone	<0.00154		mg/kg dry	0.00154	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Heptachlor	<0.000824		mg/kg dry	0.000824	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Heptachlor epoxide	<0.00154		mg/kg dry	0.00154	0.00175	1	07/06/07 19:28	SW846 8081A	7065631
Methoxychlor	<0.00103		mg/kg dry	0.00103	0.00340	1	07/06/07 19:28	SW846 8081A	7065631
Toxaphene	<0.0299		mg/kg dry	0.0299	0.0687	1	07/06/07 19:28	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*92 %*					*1*	*07/06/07 19:28*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*118 %*					*1*	*07/06/07 19:28*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0126		mg/kg dry	0.0126	0.0698	1	07/06/07 22:45	SW846 8151A	7065630
2,4,5-T	<0.0105		mg/kg dry	0.0105	0.0346	1	07/06/07 22:45	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0115		mg/kg dry	0.0115	0.0178	1	07/06/07 22:45	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*74 %*					*1*	*07/06/07 22:45*	*SW846 8151A*	*7065630*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-15 (SS-9 (0-2') - Soil) - cont. Sampled: 06/26/07 09:25

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-16 (SS-10 (0-2) - Soil) Sampled: 06/26/07 09:45									
General Chemistry Parameters									
% Dry Solids	**94.7**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**1.05**		mg/kg dry	0.905	1.05	1	07/02/07 20:39	SW846 6010B	7065535
Barium	**73.0**		mg/kg dry	0.316	2.10	1	07/02/07 20:39	SW846 6010B	7065535
Cadmium	<0.210		mg/kg dry	0.210	1.05	1	07/02/07 20:39	SW846 6010B	7065535
Chromium	**7.24**		mg/kg dry	0.316	1.05	1	07/02/07 20:39	SW846 6010B	7065535
Lead	**9.55**		mg/kg dry	0.947	1.05	1	07/02/07 20:39	SW846 6010B	7065535
Selenium	<1.58		mg/kg dry	1.58	2.10	1	07/02/07 20:39	SW846 6010B	7065535
Silver	<0.526		mg/kg dry	0.526	1.05	1	07/02/07 20:39	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0310		mg/kg dry	0.0310	0.103	1	07/05/07 09:37	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000522		mg/kg dry	0.000522	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
delta-BHC	<0.000626		mg/kg dry	0.000626	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
alpha-BHC	<0.000418		mg/kg dry	0.000418	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
beta-BHC	<0.00157		mg/kg dry	0.00157	0.00344	1	07/06/07 19:57	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000835		mg/kg dry	0.000835	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
alpha-Chlordane	<0.00167		mg/kg dry	0.00167	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
gamma-Chlordane	<0.000731		mg/kg dry	0.000731	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Chlordane	<0.0125		mg/kg dry	0.0125	0.0696	1	07/06/07 19:57	SW846 8081A	7065631
4,4'-DDD	<0.000626		mg/kg dry	0.000626	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
4,4'-DDE	<0.000731		mg/kg dry	0.000731	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
4,4'-DDT	<0.000731		mg/kg dry	0.000731	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Dieldrin	<0.000522		mg/kg dry	0.000522	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endosulfan I	<0.000835		mg/kg dry	0.000835	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endosulfan II	<0.00104		mg/kg dry	0.00104	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endosulfan sulfate	<0.000626		mg/kg dry	0.000626	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endrin	<0.000835		mg/kg dry	0.000835	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endrin aldehyde	<0.000626		mg/kg dry	0.000626	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Endrin ketone	<0.00157		mg/kg dry	0.00157	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Heptachlor	<0.000835		mg/kg dry	0.000835	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Heptachlor epoxide	<0.00157		mg/kg dry	0.00157	0.00177	1	07/06/07 19:57	SW846 8081A	7065631
Methoxychlor	<0.00104		mg/kg dry	0.00104	0.00344	1	07/06/07 19:57	SW846 8081A	7065631
Toxaphene	<0.0303		mg/kg dry	0.0303	0.0696	1	07/06/07 19:57	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*214 %*	*Z2*				*1*	*07/06/07 19:57*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*130 %*					*1*	*07/06/07 19:57*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0127		mg/kg dry	0.0127	0.0704	1	07/06/07 23:16	SW846 8151A	7065630
2,4,5-T	<0.0106		mg/kg dry	0.0106	0.0348	1	07/06/07 23:16	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0116		mg/kg dry	0.0116	0.0180	1	07/06/07 23:16	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*60 %*					*1*	*07/06/07 23:16*	*SW846 8151A*	*7065630*

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch

Sample ID: NQF3703-16 (SS-10 (0-2) - Soil) - cont. Sampled: 06/26/07 09:45

Subcontracted Analysis

See Attached Report

Sample ID: NQF3703-17 (SS-11 (0-2') BG - Soil) Sampled: 06/26/07 10:05

Subcontracted Analysis

See Attached Report

Sample ID: NQF3703-18 (SUB-7 (2'4') BG - Soil) Sampled: 06/26/07 10:06

Subcontracted Analysis

See Attached Report

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-19 (SS-12 (0-2) - Soil) Sampled: 06/26/07 13:00									
General Chemistry Parameters									
% Dry Solids	**84.6**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**5.07**		mg/kg dry	1.01	1.18	1	07/02/07 20:44	SW846 6010B	7065535
Barium	**189**		mg/kg dry	0.354	2.36	1	07/02/07 20:44	SW846 6010B	7065535
Cadmium	<0.236		mg/kg dry	0.236	1.18	1	07/02/07 20:44	SW846 6010B	7065535
Chromium	**42.5**		mg/kg dry	0.354	1.18	1	07/02/07 20:44	SW846 6010B	7065535
Lead	**46.5**		mg/kg dry	1.06	1.18	1	07/02/07 20:44	SW846 6010B	7065535
Selenium	<1.77		mg/kg dry	1.77	2.36	1	07/02/07 20:44	SW846 6010B	7065535
Silver	<0.590		mg/kg dry	0.590	1.18	1	07/02/07 20:44	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.512**		mg/kg dry	0.0345	0.115	1	07/05/07 09:40	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000575		mg/kg dry	0.000575	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
delta-BHC	<0.000690		mg/kg dry	0.000690	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
alpha-BHC	<0.000460		mg/kg dry	0.000460	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
beta-BHC	<0.00173		mg/kg dry	0.00173	0.00380	1	07/06/07 20:26	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000920		mg/kg dry	0.000920	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
alpha-Chlordane	<0.00184		mg/kg dry	0.00184	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
gamma-Chlordane	<0.000805		mg/kg dry	0.000805	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Chlordane	<0.0138		mg/kg dry	0.0138	0.0767	1	07/06/07 20:26	SW846 8081A	7065631
4,4'-DDD	<0.000690		mg/kg dry	0.000690	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
4,4'-DDE	<0.000805		mg/kg dry	0.000805	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
4,4'-DDT	<0.000805		mg/kg dry	0.000805	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Dieldrin	**0.0130**		mg/kg dry	0.000575	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endosulfan I	<0.000920		mg/kg dry	0.000920	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endosulfan II	<0.00115		mg/kg dry	0.00115	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endosulfan sulfate	<0.000690		mg/kg dry	0.000690	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endrin	<0.000920		mg/kg dry	0.000920	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endrin aldehyde	<0.000690		mg/kg dry	0.000690	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Endrin ketone	<0.00173		mg/kg dry	0.00173	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Heptachlor	<0.000920		mg/kg dry	0.000920	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Heptachlor epoxide	<0.00173		mg/kg dry	0.00173	0.00196	1	07/06/07 20:26	SW846 8081A	7065631
Methoxychlor	<0.00115		mg/kg dry	0.00115	0.00380	1	07/06/07 20:26	SW846 8081A	7065631
Toxaphene	<0.0334		mg/kg dry	0.0334	0.0767	1	07/06/07 20:26	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*94 %*					*1*	*07/06/07 20:26*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*126 %*					*1*	*07/06/07 20:26*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0142		mg/kg dry	0.0142	0.0788	1	07/06/07 23:47	SW846 8151A	7065630
2,4,5-T	<0.0118		mg/kg dry	0.0118	0.0390	1	07/06/07 23:47	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0130		mg/kg dry	0.0130	0.0201	1	07/06/07 23:47	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*126 %*					*1*	*07/06/07 23:47*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-19RE1 (SS-12 (0-2) - Soil) - cont. Sampled: 06/26/07 13:00									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Acenaphthene	<0.413	RL1	mg/kg dry	0.413	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Acenaphthylene	<0.504	RL1	mg/kg dry	0.504	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Anthracene	<0.459	RL1	mg/kg dry	0.459	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Benzo (a) anthracene	<0.424	RL1	mg/kg dry	0.424	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Benzo (a) pyrene	<0.459	RL1	mg/kg dry	0.459	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.436	RL1	mg/kg dry	0.436	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.310	RL1	mg/kg dry	0.310	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.527	RL1	mg/kg dry	0.527	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<1.38	RL1	mg/kg dry	1.38	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Butyl benzyl phthalate	<1.50	RL1	mg/kg dry	1.50	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Carbazole	<1.51	RL1	mg/kg dry	1.51	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4-Chloro-3-methylphenol	<1.38	RL1	mg/kg dry	1.38	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4-Chloroaniline	<1.05	RL1	mg/kg dry	1.05	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<1.31	RL1	mg/kg dry	1.31	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<1.20	RL1	mg/kg dry	1.20	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<1.65	RL1	mg/kg dry	1.65	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2-Chloronaphthalene	<1.04	RL1	mg/kg dry	1.04	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2-Chlorophenol	<1.35	RL1	mg/kg dry	1.35	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<1.42	RL1	mg/kg dry	1.42	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Chrysene	<0.447	RL1	mg/kg dry	0.447	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Dibenz (a,h) anthracene	<0.298	RL1	mg/kg dry	0.298	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Dibenzofuran	<1.65	RL1	mg/kg dry	1.65	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Di-n-butyl phthalate	<1.50	RL1	mg/kg dry	1.50	3.82	10	07/06/07 22:49	SW846 8270C	7065633
1,4-Dichlorobenzene	<1.12	RL1	mg/kg dry	1.12	3.82	10	07/06/07 22:49	SW846 8270C	7065633
1,2-Dichlorobenzene	<1.05	RL1	mg/kg dry	1.05	3.82	10	07/06/07 22:49	SW846 8270C	7065633
1,3-Dichlorobenzene	<1.22	RL1	mg/kg dry	1.22	3.82	10	07/06/07 22:49	SW846 8270C	7065633
3,3-Dichlorobenzidine	<2.10	RL1	mg/kg dry	2.10	7.65	10	07/06/07 22:49	SW846 8270C	7065633
2,4-Dichlorophenol	<2.05	RL1	mg/kg dry	2.05	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Diethyl phthalate	<1.07	RL1	mg/kg dry	1.07	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2,4-Dimethylphenol	<1.31	RL1	mg/kg dry	1.31	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Dimethyl phthalate	<1.35	RL1	mg/kg dry	1.35	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4,6-Dinitro-2-methylphenol	<2.25	RL1	mg/kg dry	2.25	9.55	10	07/06/07 22:49	SW846 8270C	7065633
2,4-Dinitrophenol	<3.04	RL1	mg/kg dry	3.04	9.55	10	07/06/07 22:49	SW846 8270C	7065633
2,6-Dinitrotoluene	<1.40	RL1	mg/kg dry	1.40	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2,4-Dinitrotoluene	<1.65	RL1	mg/kg dry	1.65	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Di-n-octyl phthalate	<1.51	RL1	mg/kg dry	1.51	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<1.86	RL1	mg/kg dry	1.86	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Fluoranthene	<0.482	RL1	mg/kg dry	0.482	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Fluorene	<0.493	RL1	mg/kg dry	0.493	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Hexachlorobenzene	<1.56	RL1	mg/kg dry	1.56	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Hexachlorobutadiene	<1.34	RL1	mg/kg dry	1.34	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Hexachlorocyclopentadiene	<1.44	RL1	mg/kg dry	1.44	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Hexachloroethane	<1.18	RL1	mg/kg dry	1.18	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.390	RL1	mg/kg dry	0.390	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Isophorone	<1.52	RL1	mg/kg dry	1.52	3.82	10	07/06/07 22:49	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-19RE1 (SS-12 (0-2) - Soil) - cont. Sampled: 06/26/07 13:00									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2-Methylnaphthalene	<0.413	RL1	mg/kg dry	0.413	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2-Methylphenol	<1.33	RL1	mg/kg dry	1.33	3.82	10	07/06/07 22:49	SW846 8270C	7065633
3/4-Methylphenol	<1.44	RL1	mg/kg dry	1.44	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Naphthalene	<0.459	RL1	mg/kg dry	0.459	3.82	10	07/06/07 22:49	SW846 8270C	7065633
3-Nitroaniline	<1.26	RL1	mg/kg dry	1.26	9.55	10	07/06/07 22:49	SW846 8270C	7065633
2-Nitroaniline	<1.28	RL1	mg/kg dry	1.28	9.55	10	07/06/07 22:49	SW846 8270C	7065633
4-Nitroaniline	<1.33	RL1	mg/kg dry	1.33	9.55	10	07/06/07 22:49	SW846 8270C	7065633
Nitrobenzene	<1.28	RL1	mg/kg dry	1.28	3.82	10	07/06/07 22:49	SW846 8270C	7065633
4-Nitrophenol	<1.36	RL1	mg/kg dry	1.36	9.55	10	07/06/07 22:49	SW846 8270C	7065633
2-Nitrophenol	<2.27	RL1	mg/kg dry	2.27	3.82	10	07/06/07 22:49	SW846 8270C	7065633
N-Nitrosodiphenylamine	<2.12	RL1	mg/kg dry	2.12	3.82	10	07/06/07 22:49	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<1.30	RL1	mg/kg dry	1.30	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Pentachlorophenol	<1.73	RL1	mg/kg dry	1.73	9.55	10	07/06/07 22:49	SW846 8270C	7065633
Phenanthrene	<0.459	RL1	mg/kg dry	0.459	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Phenol	<1.33	RL1	mg/kg dry	1.33	3.82	10	07/06/07 22:49	SW846 8270C	7065633
Pyrene	<0.539	RL1	mg/kg dry	0.539	3.82	10	07/06/07 22:49	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<1.14	RL1	mg/kg dry	1.14	3.82	10	07/06/07 22:49	SW846 8270C	7065633
1-Methylnaphthalene	<0.413	RL1	mg/kg dry	0.413	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2,4,6-Trichlorophenol	<1.10	RL1	mg/kg dry	1.10	3.82	10	07/06/07 22:49	SW846 8270C	7065633
2,4,5-Trichlorophenol	<1.30	RL1	mg/kg dry	1.30	9.55	10	07/06/07 22:49	SW846 8270C	7065633
Surr: Terphenyl-d14 (49-123%)	*78 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*47 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*57 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*45 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*40 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*40 %*					*10*	*07/06/07 22:49*	*SW846 8270C*	*7065633*
Sample ID: NQF3703-20 (SUB-7 (6'-8') - Soil) Sampled: 06/26/07 13:10									
General Chemistry Parameters									
% Dry Solids	**82.6**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**1.86**		mg/kg dry	1.01	1.18	1	07/02/07 20:49	SW846 6010B	7065535
Barium	**157**		mg/kg dry	0.353	2.35	1	07/02/07 20:49	SW846 6010B	7065535
Cadmium	<0.235		mg/kg dry	0.235	1.18	1	07/02/07 20:49	SW846 6010B	7065535
Chromium	**27.2**		mg/kg dry	0.353	1.18	1	07/02/07 20:49	SW846 6010B	7065535
Lead	**22.7**		mg/kg dry	1.06	1.18	1	07/02/07 20:49	SW846 6010B	7065535
Selenium	<1.76		mg/kg dry	1.76	2.35	1	07/02/07 20:49	SW846 6010B	7065535
Silver	<0.588		mg/kg dry	0.588	1.18	1	07/02/07 20:49	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0580**	J	mg/kg dry	0.0351	0.117	1	07/05/07 09:42	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000593		mg/kg dry	0.000593	0.00202	1	07/06/07 20:55	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-20 (SUB-7 (6'-8') - Soil) - cont. Sampled: 06/26/07 13:10									
Organochlorine Pesticides by EPA Method 8081A - cont.									
delta-BHC	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
alpha-BHC	<0.000474		mg/kg dry	0.000474	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
beta-BHC	<0.00178		mg/kg dry	0.00178	0.00391	1	07/06/07 20:55	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
alpha-Chlordane	<0.00190		mg/kg dry	0.00190	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
gamma-Chlordane	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Chlordane	<0.0142		mg/kg dry	0.0142	0.0791	1	07/06/07 20:55	SW846 8081A	7065631
4,4'-DDD	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
4,4'-DDE	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
4,4'-DDT	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Dieldrin	<0.000593		mg/kg dry	0.000593	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endosulfan I	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endosulfan II	<0.00119		mg/kg dry	0.00119	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endosulfan sulfate	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endrin	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endrin aldehyde	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Endrin ketone	<0.00178		mg/kg dry	0.00178	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Heptachlor	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Heptachlor epoxide	<0.00178		mg/kg dry	0.00178	0.00202	1	07/06/07 20:55	SW846 8081A	7065631
Methoxychlor	<0.00119		mg/kg dry	0.00119	0.00391	1	07/06/07 20:55	SW846 8081A	7065631
Toxaphene	<0.0344		mg/kg dry	0.0344	0.0791	1	07/06/07 20:55	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*108 %*					*1*	*07/06/07 20:55*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*110 %*					*1*	*07/06/07 20:55*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0145		mg/kg dry	0.0145	0.0808	1	07/07/07 00:19	SW846 8151A	7065630
2,4,5-T	<0.0121		mg/kg dry	0.0121	0.0400	1	07/07/07 00:19	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0133		mg/kg dry	0.0133	0.0206	1	07/07/07 00:19	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*97 %*					*1*	*07/07/07 00:19*	*SW846 8151A*	*7065630*
Volatile Organic Compounds by EPA Method 8260B									
Acetone	**0.0651**		mg/kg dry	0.0242	0.0605	1	07/06/07 00:45	SW846 8260B	7065514
Benzene	**0.00327**		mg/kg dry	0.000726	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Bromobenzene	<0.00123		mg/kg dry	0.00123	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Bromochloromethane	<0.000787		mg/kg dry	0.000787	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Bromodichloromethane	<0.000775		mg/kg dry	0.000775	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Bromoform	<0.000654		mg/kg dry	0.000654	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Bromomethane	<0.00126		mg/kg dry	0.00126	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
2-Butanone	<0.00758		mg/kg dry	0.00758	0.0605	1	07/06/07 00:45	SW846 8260B	7065514
sec-Butylbenzene	<0.000666		mg/kg dry	0.000666	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
n-Butylbenzene	<0.000654		mg/kg dry	0.000654	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
tert-Butylbenzene	<0.000775		mg/kg dry	0.000775	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Carbon disulfide	**0.00173**	J	mg/kg dry	0.000642	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
Carbon Tetrachloride	<0.000872		mg/kg dry	0.000872	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Chlorobenzene	<0.000678		mg/kg dry	0.000678	0.00242	1	07/06/07 00:45	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-20 (SUB-7 (6'-8') - Soil) - cont. Sampled: 06/26/07 13:10									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Chlorodibromomethane	<0.000981		mg/kg dry	0.000981	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Chloroethane	<0.00127		mg/kg dry	0.00127	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
Chloroform	<0.00109		mg/kg dry	0.00109	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Chloromethane	<0.000872		mg/kg dry	0.000872	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
2-Chlorotoluene	<0.000666		mg/kg dry	0.000666	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
4-Chlorotoluene	<0.000605		mg/kg dry	0.000605	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2-Dibromo-3-chloropropane	<0.00179		mg/kg dry	0.00179	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
1,2-Dibromoethane (EDB)	<0.000738		mg/kg dry	0.000738	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Dibromomethane	<0.000690		mg/kg dry	0.000690	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,4-Dichlorobenzene	<0.000630		mg/kg dry	0.000630	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,3-Dichlorobenzene	<0.000726		mg/kg dry	0.000726	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2-Dichlorobenzene	<0.000593		mg/kg dry	0.000593	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Dichlorodifluoromethane	<0.000751		mg/kg dry	0.000751	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1-Dichloroethane	<0.000847		mg/kg dry	0.000847	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2-Dichloroethane	<0.000654		mg/kg dry	0.000654	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
cis-1,2-Dichloroethene	<0.00100		mg/kg dry	0.00100	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1-Dichloroethene	<0.000605		mg/kg dry	0.000605	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
trans-1,2-Dichloroethene	<0.000630		mg/kg dry	0.000630	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,3-Dichloropropane	<0.000642		mg/kg dry	0.000642	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2-Dichloropropane	<0.000605		mg/kg dry	0.000605	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
2,2-Dichloropropane	<0.000896		mg/kg dry	0.000896	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
cis-1,3-Dichloropropene	<0.000702		mg/kg dry	0.000702	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
trans-1,3-Dichloropropene	<0.000799		mg/kg dry	0.000799	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1-Dichloropropene	<0.000787		mg/kg dry	0.000787	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Ethylbenzene	<0.000763		mg/kg dry	0.000763	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Hexachlorobutadiene	<0.000775		mg/kg dry	0.000775	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
2-Hexanone	<0.00479		mg/kg dry	0.00479	0.0605	1	07/06/07 00:45	SW846 8260B	7065514
Isopropylbenzene	<0.000666		mg/kg dry	0.000666	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
p-Isopropyltoluene	**0.00102**	J	mg/kg dry	0.000823	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Methyl tert-Butyl Ether	<0.000642		mg/kg dry	0.000642	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Methylene Chloride	<0.00288		mg/kg dry	0.00288	0.0121	1	07/06/07 00:45	SW846 8260B	7065514
4-Methyl-2-pentanone	<0.00479		mg/kg dry	0.00479	0.0605	1	07/06/07 00:45	SW846 8260B	7065514
Naphthalene	<0.000981		mg/kg dry	0.000981	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
n-Propylbenzene	<0.000811		mg/kg dry	0.000811	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Styrene	<0.000666		mg/kg dry	0.000666	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1,1,2-Tetrachloroethane	<0.000872		mg/kg dry	0.000872	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1,2,2-Tetrachloroethane	<0.000690		mg/kg dry	0.000690	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Tetrachloroethene	<0.000908		mg/kg dry	0.000908	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Toluene	**0.00123**	J	mg/kg dry	0.000799	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2,3-Trichlorobenzene	<0.00100		mg/kg dry	0.00100	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2,4-Trichlorobenzene	<0.000787		mg/kg dry	0.000787	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,1,2-Trichloroethane	<0.000969		mg/kg dry	0.000969	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
1,1,1-Trichloroethane	<0.000872		mg/kg dry	0.000872	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Trichloroethene	<0.000726		mg/kg dry	0.000726	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Trichlorofluoromethane	<0.00105		mg/kg dry	0.00105	0.00242	1	07/06/07 00:45	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-20 (SUB-7 (6'-8') - Soil) - cont. Sampled: 06/26/07 13:10									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,2,3-Trichloropropane	<0.00110		mg/kg dry	0.00110	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,3,5-Trimethylbenzene	<0.000617		mg/kg dry	0.000617	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
1,2,4-Trimethylbenzene	<0.000714		mg/kg dry	0.000714	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Vinyl chloride	<0.000908		mg/kg dry	0.000908	0.00242	1	07/06/07 00:45	SW846 8260B	7065514
Xylenes, total	<0.00157		mg/kg dry	0.00157	0.00605	1	07/06/07 00:45	SW846 8260B	7065514
Surr: 1,2-Dichloroethane-d4 (54-145%)	*99 %*					*1*	*07/06/07 00:45*	*SW846 8260B*	*7065514*
Surr: Dibromofluoromethane (67-129%)	*100 %*					*1*	*07/06/07 00:45*	*SW846 8260B*	*7065514*
Surr: Toluene-d8 (66-142%)	*104 %*					*1*	*07/06/07 00:45*	*SW846 8260B*	*7065514*
Surr: 4-Bromofluorobenzene (68-150%)	*120 %*					*1*	*07/06/07 00:45*	*SW846 8260B*	*7065514*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0428		mg/kg dry	0.0428	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Acenaphthylene	<0.0524		mg/kg dry	0.0524	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Anthracene	<0.0476	L	mg/kg dry	0.0476	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Benzo (a) anthracene	<0.0440		mg/kg dry	0.0440	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Benzo (a) pyrene	<0.0476		mg/kg dry	0.0476	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0452		mg/kg dry	0.0452	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Benzo (g,h,i) perylene	<0.0321		mg/kg dry	0.0321	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0547	L	mg/kg dry	0.0547	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.143		mg/kg dry	0.143	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Butyl benzyl phthalate	<0.156		mg/kg dry	0.156	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Carbazole	<0.157	L	mg/kg dry	0.157	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.143		mg/kg dry	0.143	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4-Chloroaniline	<0.109		mg/kg dry	0.109	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.136		mg/kg dry	0.136	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.125		mg/kg dry	0.125	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.171		mg/kg dry	0.171	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2-Chloronaphthalene	<0.108		mg/kg dry	0.108	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2-Chlorophenol	<0.140		mg/kg dry	0.140	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.148	L	mg/kg dry	0.148	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Chrysene	<0.0464		mg/kg dry	0.0464	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0309		mg/kg dry	0.0309	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Dibenzofuran	<0.171	L	mg/kg dry	0.171	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Di-n-butyl phthalate	<0.156		mg/kg dry	0.156	0.396	1	07/11/07 04:19	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.117		mg/kg dry	0.117	0.396	1	07/11/07 04:19	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.109		mg/kg dry	0.109	0.396	1	07/11/07 04:19	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.126		mg/kg dry	0.126	0.396	1	07/11/07 04:19	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.218		mg/kg dry	0.218	0.794	1	07/11/07 04:19	SW846 8270C	7071161
2,4-Dichlorophenol	<0.213		mg/kg dry	0.213	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Diethyl phthalate	<0.111		mg/kg dry	0.111	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2,4-Dimethylphenol	<0.136		mg/kg dry	0.136	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Dimethyl phthalate	<0.140	L	mg/kg dry	0.140	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.233		mg/kg dry	0.233	0.991	1	07/11/07 04:19	SW846 8270C	7071161
2,4-Dinitrophenol	<0.315		mg/kg dry	0.315	0.991	1	07/11/07 04:19	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.145		mg/kg dry	0.145	0.396	1	07/11/07 04:19	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-20RE1 (SUB-7 (6'-8') - Soil) - cont. Sampled: 06/26/07 13:10									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.171		mg/kg dry	0.171	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Di-n-octyl phthalate	<0.157		mg/kg dry	0.157	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.193		mg/kg dry	0.193	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Fluoranthene	<0.0500	L	mg/kg dry	0.0500	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Fluorene	<0.0512		mg/kg dry	0.0512	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Hexachlorobenzene	<0.162		mg/kg dry	0.162	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Hexachlorobutadiene	<0.139		mg/kg dry	0.139	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.150		mg/kg dry	0.150	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Hexachloroethane	<0.123		mg/kg dry	0.123	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	<0.0405		mg/kg dry	0.0405	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Isophorone	<0.158		mg/kg dry	0.158	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2-Methylnaphthalene	<0.0428		mg/kg dry	0.0428	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2-Methylphenol	<0.138		mg/kg dry	0.138	0.396	1	07/11/07 04:19	SW846 8270C	7071161
3/4-Methylphenol	<0.150		mg/kg dry	0.150	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Naphthalene	<0.0476		mg/kg dry	0.0476	0.396	1	07/11/07 04:19	SW846 8270C	7071161
3-Nitroaniline	<0.131		mg/kg dry	0.131	0.991	1	07/11/07 04:19	SW846 8270C	7071161
2-Nitroaniline	<0.133		mg/kg dry	0.133	0.991	1	07/11/07 04:19	SW846 8270C	7071161
4-Nitroaniline	<0.138		mg/kg dry	0.138	0.991	1	07/11/07 04:19	SW846 8270C	7071161
Nitrobenzene	<0.133		mg/kg dry	0.133	0.396	1	07/11/07 04:19	SW846 8270C	7071161
4-Nitrophenol	<0.142		mg/kg dry	0.142	0.991	1	07/11/07 04:19	SW846 8270C	7071161
2-Nitrophenol	<0.236		mg/kg dry	0.236	0.396	1	07/11/07 04:19	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.220		mg/kg dry	0.220	0.396	1	07/11/07 04:19	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.134		mg/kg dry	0.134	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Pentachlorophenol	<0.180		mg/kg dry	0.180	0.991	1	07/11/07 04:19	SW846 8270C	7071161
Phenanthrene	<0.0476		mg/kg dry	0.0476	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Phenol	<0.138		mg/kg dry	0.138	0.396	1	07/11/07 04:19	SW846 8270C	7071161
Pyrene	<0.0559		mg/kg dry	0.0559	0.396	1	07/11/07 04:19	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.118		mg/kg dry	0.118	0.396	1	07/11/07 04:19	SW846 8270C	7071161
1-Methylnaphthalene	<0.0428		mg/kg dry	0.0428	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.114		mg/kg dry	0.114	0.396	1	07/11/07 04:19	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.134		mg/kg dry	0.134	0.991	1	07/11/07 04:19	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*80 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*81 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*71 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*73 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*67 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*75 %*					*1*	*07/11/07 04:19*	*SW846 8270C*	*7071161*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-21 (SS-13 (0-2) - Soil) Sampled: 06/26/07 13:30									
General Chemistry Parameters									
% Dry Solids	**87.0**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**7.29**		mg/kg dry	0.967	1.12	1	07/02/07 20:53	SW846 6010B	7065535
Barium	**263**		mg/kg dry	0.337	2.25	1	07/02/07 20:53	SW846 6010B	7065535
Cadmium	<0.225		mg/kg dry	0.225	1.12	1	07/02/07 20:53	SW846 6010B	7065535
Chromium	**39.3**		mg/kg dry	0.337	1.12	1	07/02/07 20:53	SW846 6010B	7065535
Lead	**26.9**		mg/kg dry	1.01	1.12	1	07/02/07 20:53	SW846 6010B	7065535
Selenium	<1.69		mg/kg dry	1.69	2.25	1	07/02/07 20:53	SW846 6010B	7065535
Silver	<0.562		mg/kg dry	0.562	1.12	1	07/02/07 20:53	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0506**	J	mg/kg dry	0.0340	0.113	1	07/05/07 09:44	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000566		mg/kg dry	0.000566	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
delta-BHC	<0.000679		mg/kg dry	0.000679	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
alpha-BHC	<0.000453		mg/kg dry	0.000453	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
beta-BHC	<0.00170		mg/kg dry	0.00170	0.00373	1	07/06/07 21:24	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000905		mg/kg dry	0.000905	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
alpha-Chlordane	<0.00181		mg/kg dry	0.00181	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
gamma-Chlordane	<0.000792		mg/kg dry	0.000792	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Chlordane	<0.0136		mg/kg dry	0.0136	0.0755	1	07/06/07 21:24	SW846 8081A	7065631
4,4'-DDD	<0.000679		mg/kg dry	0.000679	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
4,4'-DDE	<0.000792		mg/kg dry	0.000792	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
4,4'-DDT	<0.000792		mg/kg dry	0.000792	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Dieldrin	<0.000566		mg/kg dry	0.000566	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endosulfan I	<0.000905		mg/kg dry	0.000905	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endosulfan II	<0.00113		mg/kg dry	0.00113	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endosulfan sulfate	<0.000679		mg/kg dry	0.000679	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endrin	<0.000905		mg/kg dry	0.000905	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endrin aldehyde	<0.000679		mg/kg dry	0.000679	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Endrin ketone	<0.00170		mg/kg dry	0.00170	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Heptachlor	<0.000905		mg/kg dry	0.000905	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Heptachlor epoxide	<0.00170		mg/kg dry	0.00170	0.00192	1	07/06/07 21:24	SW846 8081A	7065631
Methoxychlor	<0.00113		mg/kg dry	0.00113	0.00373	1	07/06/07 21:24	SW846 8081A	7065631
Toxaphene	<0.0328		mg/kg dry	0.0328	0.0755	1	07/06/07 21:24	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*100 %*					*1*	*07/06/07 21:24*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*100 %*					*1*	*07/06/07 21:24*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0138		mg/kg dry	0.0138	0.0767	1	07/07/07 00:50	SW846 8151A	7065630
2,4,5-T	<0.0115		mg/kg dry	0.0115	0.0379	1	07/07/07 00:50	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0126		mg/kg dry	0.0126	0.0195	1	07/07/07 00:50	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*118 %*					*1*	*07/07/07 00:50*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-21RE1 (SS-13 (0-2) - Soil) - cont. Sampled: 06/26/07 13:30									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Acenaphthene	<0.0400		mg/kg dry	0.0400	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Acenaphthylene	<0.0489		mg/kg dry	0.0489	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Anthracene	<0.0445	L	mg/kg dry	0.0445	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Benzo (a) anthracene	**0.0641**	J	mg/kg dry	0.0411	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Benzo (a) pyrene	**0.0915**	J	mg/kg dry	0.0445	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0422		mg/kg dry	0.0422	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Benzo (g,h,i) perylene	**0.0541**	J	mg/kg dry	0.0300	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0511	L	mg/kg dry	0.0511	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.133		mg/kg dry	0.133	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Butyl benzyl phthalate	<0.146		mg/kg dry	0.146	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Carbazole	<0.147	L	mg/kg dry	0.147	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.133		mg/kg dry	0.133	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4-Chloroaniline	<0.102		mg/kg dry	0.102	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.127		mg/kg dry	0.127	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.117		mg/kg dry	0.117	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.160		mg/kg dry	0.160	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2-Chloronaphthalene	<0.101		mg/kg dry	0.101	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2-Chlorophenol	<0.131		mg/kg dry	0.131	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.138	L	mg/kg dry	0.138	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Chrysene	**0.0904**	J	mg/kg dry	0.0434	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0289		mg/kg dry	0.0289	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Dibenzofuran	<0.160	L	mg/kg dry	0.160	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Di-n-butyl phthalate	<0.146		mg/kg dry	0.146	0.370	1	07/11/07 04:40	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.109		mg/kg dry	0.109	0.370	1	07/11/07 04:40	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.102		mg/kg dry	0.102	0.370	1	07/11/07 04:40	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.118		mg/kg dry	0.118	0.370	1	07/11/07 04:40	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.203		mg/kg dry	0.203	0.741	1	07/11/07 04:40	SW846 8270C	7071161
2,4-Dichlorophenol	<0.199		mg/kg dry	0.199	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Diethyl phthalate	<0.103		mg/kg dry	0.103	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2,4-Dimethylphenol	<0.127		mg/kg dry	0.127	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Dimethyl phthalate	<0.131	L	mg/kg dry	0.131	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.218		mg/kg dry	0.218	0.926	1	07/11/07 04:40	SW846 8270C	7071161
2,4-Dinitrophenol	<0.295		mg/kg dry	0.295	0.926	1	07/11/07 04:40	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.136		mg/kg dry	0.136	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2,4-Dinitrotoluene	<0.160		mg/kg dry	0.160	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Di-n-octyl phthalate	<0.147		mg/kg dry	0.147	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.180		mg/kg dry	0.180	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Fluoranthene	**0.163**	J, L	mg/kg dry	0.0467	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Fluorene	<0.0478		mg/kg dry	0.0478	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Hexachlorobenzene	<0.151		mg/kg dry	0.151	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Hexachlorobutadiene	<0.130		mg/kg dry	0.130	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.140		mg/kg dry	0.140	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Hexachloroethane	<0.114		mg/kg dry	0.114	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	**0.0467**	J	mg/kg dry	0.0378	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Isophorone	<0.148		mg/kg dry	0.148	0.370	1	07/11/07 04:40	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-21RE1 (SS-13 (0-2) - Soil) - cont. Sampled: 06/26/07 13:30									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2-Methylnaphthalene	<0.0400		mg/kg dry	0.0400	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2-Methylphenol	<0.129		mg/kg dry	0.129	0.370	1	07/11/07 04:40	SW846 8270C	7071161
3/4-Methylphenol	<0.140		mg/kg dry	0.140	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Naphthalene	<0.0445		mg/kg dry	0.0445	0.370	1	07/11/07 04:40	SW846 8270C	7071161
3-Nitroaniline	<0.122		mg/kg dry	0.122	0.926	1	07/11/07 04:40	SW846 8270C	7071161
2-Nitroaniline	<0.125		mg/kg dry	0.125	0.926	1	07/11/07 04:40	SW846 8270C	7071161
4-Nitroaniline	<0.129		mg/kg dry	0.129	0.926	1	07/11/07 04:40	SW846 8270C	7071161
Nitrobenzene	<0.125		mg/kg dry	0.125	0.370	1	07/11/07 04:40	SW846 8270C	7071161
4-Nitrophenol	<0.132		mg/kg dry	0.132	0.926	1	07/11/07 04:40	SW846 8270C	7071161
2-Nitrophenol	<0.220		mg/kg dry	0.220	0.370	1	07/11/07 04:40	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.206		mg/kg dry	0.206	0.370	1	07/11/07 04:40	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.126		mg/kg dry	0.126	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Pentachlorophenol	<0.168		mg/kg dry	0.168	0.926	1	07/11/07 04:40	SW846 8270C	7071161
Phenanthrene	**0.0634**	J	mg/kg dry	0.0445	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Phenol	<0.129		mg/kg dry	0.129	0.370	1	07/11/07 04:40	SW846 8270C	7071161
Pyrene	**0.129**	J	mg/kg dry	0.0522	0.370	1	07/11/07 04:40	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.110		mg/kg dry	0.110	0.370	1	07/11/07 04:40	SW846 8270C	7071161
1-Methylnaphthalene	<0.0400		mg/kg dry	0.0400	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.107		mg/kg dry	0.107	0.370	1	07/11/07 04:40	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.126		mg/kg dry	0.126	0.926	1	07/11/07 04:40	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*78 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*88 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*75 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*74 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*69 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*73 %*					*1*	*07/11/07 04:40*	*SW846 8270C*	*7071161*
Sample ID: NQF3703-22 (SUB-8 (4'-6') - Soil) Sampled: 06/26/07 13:40									
General Chemistry Parameters									
% Dry Solids	**83.2**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**6.07**		mg/kg dry	0.996	1.16	1	07/02/07 20:58	SW846 6010B	7065535
Barium	**156**		mg/kg dry	0.347	2.32	1	07/02/07 20:58	SW846 6010B	7065535
Cadmium	<0.232		mg/kg dry	0.232	1.16	1	07/02/07 20:58	SW846 6010B	7065535
Chromium	**29.5**		mg/kg dry	0.347	1.16	1	07/02/07 20:58	SW846 6010B	7065535
Lead	**18.6**		mg/kg dry	1.04	1.16	1	07/02/07 20:58	SW846 6010B	7065535
Selenium	<1.74		mg/kg dry	1.74	2.32	1	07/02/07 20:58	SW846 6010B	7065535
Silver	<0.579		mg/kg dry	0.579	1.16	1	07/02/07 20:58	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0352**	J	mg/kg dry	0.0348	0.116	1	07/05/07 09:46	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000593		mg/kg dry	0.000593	0.00202	1	07/06/07 21:54	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-22 (SUB-8 (4'-6') - Soil) - cont. Sampled: 06/26/07 13:40									
Organochlorine Pesticides by EPA Method 8081A - cont.									
delta-BHC	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
alpha-BHC	<0.000474		mg/kg dry	0.000474	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
beta-BHC	<0.00178		mg/kg dry	0.00178	0.00391	1	07/06/07 21:54	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
alpha-Chlordane	<0.00190		mg/kg dry	0.00190	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
gamma-Chlordane	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Chlordane	<0.0142		mg/kg dry	0.0142	0.0791	1	07/06/07 21:54	SW846 8081A	7065631
4,4'-DDD	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
4,4'-DDE	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
4,4'-DDT	<0.000830		mg/kg dry	0.000830	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Dieldrin	<0.000593		mg/kg dry	0.000593	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endosulfan I	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endosulfan II	<0.00119		mg/kg dry	0.00119	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endosulfan sulfate	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endrin	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endrin aldehyde	<0.000712		mg/kg dry	0.000712	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Endrin ketone	<0.00178		mg/kg dry	0.00178	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Heptachlor	<0.000949		mg/kg dry	0.000949	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Heptachlor epoxide	<0.00178		mg/kg dry	0.00178	0.00202	1	07/06/07 21:54	SW846 8081A	7065631
Methoxychlor	<0.00119		mg/kg dry	0.00119	0.00391	1	07/06/07 21:54	SW846 8081A	7065631
Toxaphene	<0.0344		mg/kg dry	0.0344	0.0791	1	07/06/07 21:54	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*142 %*					*1*	*07/06/07 21:54*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*78 %*					*1*	*07/06/07 21:54*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0144		mg/kg dry	0.0144	0.0802	1	07/07/07 01:21	SW846 8151A	7065630
2,4,5-T	<0.0120		mg/kg dry	0.0120	0.0397	1	07/07/07 01:21	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0132		mg/kg dry	0.0132	0.0204	1	07/07/07 01:21	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*76 %*					*1*	*07/07/07 01:21*	*SW846 8151A*	*7065630*
Volatile Organic Compounds by EPA Method 8260B									
Acetone	**0.0426**	J	mg/kg dry	0.0240	0.0601	1	07/06/07 01:16	SW846 8260B	7065514
Benzene	<0.000721		mg/kg dry	0.000721	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Bromobenzene	<0.00123		mg/kg dry	0.00123	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Bromochloromethane	<0.000781		mg/kg dry	0.000781	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Bromodichloromethane	<0.000769		mg/kg dry	0.000769	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Bromoform	<0.000649		mg/kg dry	0.000649	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Bromomethane	<0.00125		mg/kg dry	0.00125	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
2-Butanone	<0.00752		mg/kg dry	0.00752	0.0601	1	07/06/07 01:16	SW846 8260B	7065514
sec-Butylbenzene	<0.000661		mg/kg dry	0.000661	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
n-Butylbenzene	<0.000649		mg/kg dry	0.000649	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
tert-Butylbenzene	<0.000769		mg/kg dry	0.000769	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Carbon disulfide	**0.00183**	J	mg/kg dry	0.000637	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
Carbon Tetrachloride	<0.000865		mg/kg dry	0.000865	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Chlorobenzene	<0.000673		mg/kg dry	0.000673	0.00240	1	07/06/07 01:16	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-22 (SUB-8 (4'-6') - Soil) - cont. Sampled: 06/26/07 13:40									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Chlorodibromomethane	<0.000974		mg/kg dry	0.000974	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Chloroethane	<0.00126		mg/kg dry	0.00126	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
Chloroform	<0.00108		mg/kg dry	0.00108	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Chloromethane	<0.000865		mg/kg dry	0.000865	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
2-Chlorotoluene	<0.000661		mg/kg dry	0.000661	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
4-Chlorotoluene	<0.000601		mg/kg dry	0.000601	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2-Dibromo-3-chloropropane	<0.00178		mg/kg dry	0.00178	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
1,2-Dibromoethane (EDB)	<0.000733		mg/kg dry	0.000733	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Dibromomethane	<0.000685		mg/kg dry	0.000685	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,4-Dichlorobenzene	<0.000625		mg/kg dry	0.000625	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,3-Dichlorobenzene	<0.000721		mg/kg dry	0.000721	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2-Dichlorobenzene	<0.000589		mg/kg dry	0.000589	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Dichlorodifluoromethane	<0.000745		mg/kg dry	0.000745	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1-Dichloroethane	<0.000841		mg/kg dry	0.000841	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2-Dichloroethane	<0.000649		mg/kg dry	0.000649	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
cis-1,2-Dichloroethene	<0.000998		mg/kg dry	0.000998	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1-Dichloroethene	<0.000601		mg/kg dry	0.000601	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
trans-1,2-Dichloroethene	<0.000625		mg/kg dry	0.000625	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,3-Dichloropropane	<0.000637		mg/kg dry	0.000637	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2-Dichloropropane	<0.000601		mg/kg dry	0.000601	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
2,2-Dichloropropane	<0.000889		mg/kg dry	0.000889	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
cis-1,3-Dichloropropene	<0.000697		mg/kg dry	0.000697	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
trans-1,3-Dichloropropene	<0.000793		mg/kg dry	0.000793	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1-Dichloropropene	<0.000781		mg/kg dry	0.000781	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Ethylbenzene	<0.000757		mg/kg dry	0.000757	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Hexachlorobutadiene	<0.000769		mg/kg dry	0.000769	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
2-Hexanone	<0.00476		mg/kg dry	0.00476	0.0601	1	07/06/07 01:16	SW846 8260B	7065514
Isopropylbenzene	<0.000661		mg/kg dry	0.000661	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
p-Isopropyltoluene	<0.000817		mg/kg dry	0.000817	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Methyl tert-Butyl Ether	<0.000637		mg/kg dry	0.000637	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Methylene Chloride	<0.00286		mg/kg dry	0.00286	0.0120	1	07/06/07 01:16	SW846 8260B	7065514
4-Methyl-2-pentanone	<0.00476		mg/kg dry	0.00476	0.0601	1	07/06/07 01:16	SW846 8260B	7065514
Naphthalene	<0.000974		mg/kg dry	0.000974	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
n-Propylbenzene	<0.000805		mg/kg dry	0.000805	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Styrene	<0.000661		mg/kg dry	0.000661	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1,1,2-Tetrachloroethane	<0.000865		mg/kg dry	0.000865	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1,2,2-Tetrachloroethane	<0.000685		mg/kg dry	0.000685	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Tetrachloroethene	<0.000901		mg/kg dry	0.000901	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Toluene	<0.000793		mg/kg dry	0.000793	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2,3-Trichlorobenzene	<0.000998		mg/kg dry	0.000998	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2,4-Trichlorobenzene	<0.000781		mg/kg dry	0.000781	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,1,2-Trichloroethane	<0.000962		mg/kg dry	0.000962	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
1,1,1-Trichloroethane	<0.000865		mg/kg dry	0.000865	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Trichloroethene	<0.000721		mg/kg dry	0.000721	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Trichlorofluoromethane	<0.00105		mg/kg dry	0.00105	0.00240	1	07/06/07 01:16	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-22 (SUB-8 (4'-6') - Soil) - cont. Sampled: 06/26/07 13:40									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,2,3-Trichloropropane	<0.00109		mg/kg dry	0.00109	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,3,5-Trimethylbenzene	<0.000613		mg/kg dry	0.000613	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
1,2,4-Trimethylbenzene	<0.000709		mg/kg dry	0.000709	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Vinyl chloride	<0.000901		mg/kg dry	0.000901	0.00240	1	07/06/07 01:16	SW846 8260B	7065514
Xylenes, total	<0.00156		mg/kg dry	0.00156	0.00601	1	07/06/07 01:16	SW846 8260B	7065514
Surr: 1,2-Dichloroethane-d4 (54-145%)	*102 %*					*1*	*07/06/07 01:16*	*SW846 8260B*	*7065514*
Surr: Dibromofluoromethane (67-129%)	*101 %*					*1*	*07/06/07 01:16*	*SW846 8260B*	*7065514*
Surr: Toluene-d8 (66-142%)	*98 %*					*1*	*07/06/07 01:16*	*SW846 8260B*	*7065514*
Surr: 4-Bromofluorobenzene (68-150%)	*101 %*					*1*	*07/06/07 01:16*	*SW846 8260B*	*7065514*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0415		mg/kg dry	0.0415	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Acenaphthylene	<0.0508		mg/kg dry	0.0508	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Anthracene	<0.0462	L	mg/kg dry	0.0462	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Benzo (a) anthracene	<0.0427		mg/kg dry	0.0427	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Benzo (a) pyrene	<0.0462		mg/kg dry	0.0462	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0438		mg/kg dry	0.0438	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Benzo (g,h,i) perylene	<0.0312		mg/kg dry	0.0312	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0531	L	mg/kg dry	0.0531	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.138		mg/kg dry	0.138	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Butyl benzyl phthalate	<0.151		mg/kg dry	0.151	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Carbazole	<0.152	L	mg/kg dry	0.152	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.138		mg/kg dry	0.138	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4-Chloroaniline	<0.106		mg/kg dry	0.106	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.132		mg/kg dry	0.132	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.121		mg/kg dry	0.121	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.166		mg/kg dry	0.166	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2-Chloronaphthalene	<0.105		mg/kg dry	0.105	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2-Chlorophenol	<0.136		mg/kg dry	0.136	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.143	L	mg/kg dry	0.143	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Chrysene	<0.0450		mg/kg dry	0.0450	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0300		mg/kg dry	0.0300	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Dibenzofuran	<0.166	L	mg/kg dry	0.166	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Di-n-butyl phthalate	<0.151		mg/kg dry	0.151	0.384	1	07/11/07 05:02	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.113		mg/kg dry	0.113	0.384	1	07/11/07 05:02	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.106		mg/kg dry	0.106	0.384	1	07/11/07 05:02	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.122		mg/kg dry	0.122	0.384	1	07/11/07 05:02	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.211		mg/kg dry	0.211	0.770	1	07/11/07 05:02	SW846 8270C	7071161
2,4-Dichlorophenol	<0.207		mg/kg dry	0.207	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Diethyl phthalate	<0.107		mg/kg dry	0.107	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2,4-Dimethylphenol	<0.132		mg/kg dry	0.132	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Dimethyl phthalate	<0.136	L	mg/kg dry	0.136	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.226		mg/kg dry	0.226	0.961	1	07/11/07 05:02	SW846 8270C	7071161
2,4-Dinitrophenol	<0.306		mg/kg dry	0.306	0.961	1	07/11/07 05:02	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.141		mg/kg dry	0.141	0.384	1	07/11/07 05:02	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-22RE1 (SUB-8 (4'-6') - Soil) - cont. Sampled: 06/26/07 13:40									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.166		mg/kg dry	0.166	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Di-n-octyl phthalate	<0.152		mg/kg dry	0.152	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.187		mg/kg dry	0.187	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Fluoranthene	<0.0485	L	mg/kg dry	0.0485	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Fluorene	<0.0496		mg/kg dry	0.0496	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Hexachlorobenzene	<0.157		mg/kg dry	0.157	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Hexachlorobutadiene	<0.135		mg/kg dry	0.135	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.145		mg/kg dry	0.145	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Hexachloroethane	<0.119		mg/kg dry	0.119	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	<0.0392		mg/kg dry	0.0392	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Isophorone	<0.153		mg/kg dry	0.153	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2-Methylnaphthalene	<0.0415		mg/kg dry	0.0415	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2-Methylphenol	<0.134		mg/kg dry	0.134	0.384	1	07/11/07 05:02	SW846 8270C	7071161
3/4-Methylphenol	<0.145		mg/kg dry	0.145	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Naphthalene	<0.0462		mg/kg dry	0.0462	0.384	1	07/11/07 05:02	SW846 8270C	7071161
3-Nitroaniline	<0.127		mg/kg dry	0.127	0.961	1	07/11/07 05:02	SW846 8270C	7071161
2-Nitroaniline	<0.129		mg/kg dry	0.129	0.961	1	07/11/07 05:02	SW846 8270C	7071161
4-Nitroaniline	<0.134		mg/kg dry	0.134	0.961	1	07/11/07 05:02	SW846 8270C	7071161
Nitrobenzene	<0.129		mg/kg dry	0.129	0.384	1	07/11/07 05:02	SW846 8270C	7071161
4-Nitrophenol	<0.137		mg/kg dry	0.137	0.961	1	07/11/07 05:02	SW846 8270C	7071161
2-Nitrophenol	<0.228		mg/kg dry	0.228	0.384	1	07/11/07 05:02	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.213		mg/kg dry	0.213	0.384	1	07/11/07 05:02	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.130		mg/kg dry	0.130	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Pentachlorophenol	<0.174		mg/kg dry	0.174	0.961	1	07/11/07 05:02	SW846 8270C	7071161
Phenanthrene	<0.0462		mg/kg dry	0.0462	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Phenol	<0.134		mg/kg dry	0.134	0.384	1	07/11/07 05:02	SW846 8270C	7071161
Pyrene	<0.0542		mg/kg dry	0.0542	0.384	1	07/11/07 05:02	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.114		mg/kg dry	0.114	0.384	1	07/11/07 05:02	SW846 8270C	7071161
1-Methylnaphthalene	<0.0415		mg/kg dry	0.0415	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.111		mg/kg dry	0.111	0.384	1	07/11/07 05:02	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.130		mg/kg dry	0.130	0.961	1	07/11/07 05:02	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*86 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*87 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*77 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*75 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*77 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*79 %*					*1*	*07/11/07 05:02*	*SW846 8270C*	*7071161*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-23 (FD-1 - Soil) Sampled: 06/26/07									
General Chemistry Parameters									
% Dry Solids	**86.6**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**5.59**		mg/kg dry	0.997	1.16	1	07/02/07 21:03	SW846 6010B	7065535
Barium	**136**		mg/kg dry	0.348	2.32	1	07/02/07 21:03	SW846 6010B	7065535
Cadmium	<0.232		mg/kg dry	0.232	1.16	1	07/02/07 21:03	SW846 6010B	7065535
Chromium	**26.9**		mg/kg dry	0.348	1.16	1	07/02/07 21:03	SW846 6010B	7065535
Lead	**18.0**		mg/kg dry	1.04	1.16	1	07/02/07 21:03	SW846 6010B	7065535
Selenium	<1.74		mg/kg dry	1.74	2.32	1	07/02/07 21:03	SW846 6010B	7065535
Silver	<0.580		mg/kg dry	0.580	1.16	1	07/02/07 21:03	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0373**	J	mg/kg dry	0.0341	0.114	1	07/05/07 09:48	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000561		mg/kg dry	0.000561	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
delta-BHC	<0.000673		mg/kg dry	0.000673	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
alpha-BHC	<0.000449		mg/kg dry	0.000449	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
beta-BHC	<0.00168		mg/kg dry	0.00168	0.00370	1	07/06/07 22:23	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000897		mg/kg dry	0.000897	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
alpha-Chlordane	<0.00179		mg/kg dry	0.00179	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
gamma-Chlordane	<0.000785		mg/kg dry	0.000785	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Chlordane	<0.0135		mg/kg dry	0.0135	0.0748	1	07/06/07 22:23	SW846 8081A	7065631
4,4'-DDD	<0.000673		mg/kg dry	0.000673	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
4,4'-DDE	<0.000785		mg/kg dry	0.000785	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
4,4'-DDT	<0.000785		mg/kg dry	0.000785	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Dieldrin	<0.000561		mg/kg dry	0.000561	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endosulfan I	<0.000897		mg/kg dry	0.000897	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endosulfan II	<0.00112		mg/kg dry	0.00112	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endosulfan sulfate	<0.000673		mg/kg dry	0.000673	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endrin	<0.000897		mg/kg dry	0.000897	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endrin aldehyde	<0.000673		mg/kg dry	0.000673	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Endrin ketone	<0.00168		mg/kg dry	0.00168	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Heptachlor	<0.000897		mg/kg dry	0.000897	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Heptachlor epoxide	<0.00168		mg/kg dry	0.00168	0.00191	1	07/06/07 22:23	SW846 8081A	7065631
Methoxychlor	<0.00112		mg/kg dry	0.00112	0.00370	1	07/06/07 22:23	SW846 8081A	7065631
Toxaphene	<0.0325		mg/kg dry	0.0325	0.0748	1	07/06/07 22:23	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*128 %*					*1*	*07/06/07 22:23*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*92 %*					*1*	*07/06/07 22:23*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0139		mg/kg dry	0.0139	0.0770	1	07/07/07 01:52	SW846 8151A	7065630
2,4,5-T	<0.0115		mg/kg dry	0.0115	0.0381	1	07/07/07 01:52	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0127		mg/kg dry	0.0127	0.0196	1	07/07/07 01:52	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*105 %*					*1*	*07/07/07 01:52*	*SW846 8151A*	*7065630*
Volatile Organic Compounds by EPA Method 8260B									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-23 (FD-1 - Soil) - cont. Sampled: 06/26/07									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Acetone	**0.0375**	J	mg/kg dry	0.0171	0.0427	1	07/05/07 08:19	SW846 8260B	7065291
Benzene	**0.00423**		mg/kg dry	0.000512	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Bromobenzene	<0.000871		mg/kg dry	0.000871	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Bromochloromethane	<0.000555		mg/kg dry	0.000555	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Bromodichloromethane	<0.000547		mg/kg dry	0.000547	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Bromoform	<0.000461		mg/kg dry	0.000461	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Bromomethane	<0.000888		mg/kg dry	0.000888	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
2-Butanone	<0.00535		mg/kg dry	0.00535	0.0427	1	07/05/07 08:19	SW846 8260B	7065291
sec-Butylbenzene	<0.000470		mg/kg dry	0.000470	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
n-Butylbenzene	<0.000461		mg/kg dry	0.000461	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
tert-Butylbenzene	<0.000547		mg/kg dry	0.000547	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Carbon disulfide	<0.000453		mg/kg dry	0.000453	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
Carbon Tetrachloride	<0.000615		mg/kg dry	0.000615	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Chlorobenzene	<0.000478		mg/kg dry	0.000478	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Chlorodibromomethane	<0.000692		mg/kg dry	0.000692	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Chloroethane	<0.000897		mg/kg dry	0.000897	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
Chloroform	<0.000769		mg/kg dry	0.000769	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Chloromethane	<0.000615		mg/kg dry	0.000615	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
2-Chlorotoluene	<0.000470		mg/kg dry	0.000470	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
4-Chlorotoluene	<0.000427		mg/kg dry	0.000427	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2-Dibromo-3-chloropropane	<0.00126		mg/kg dry	0.00126	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
1,2-Dibromoethane (EDB)	<0.000521		mg/kg dry	0.000521	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Dibromomethane	<0.000487		mg/kg dry	0.000487	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,4-Dichlorobenzene	<0.000444		mg/kg dry	0.000444	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,3-Dichlorobenzene	<0.000512		mg/kg dry	0.000512	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2-Dichlorobenzene	<0.000419		mg/kg dry	0.000419	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Dichlorodifluoromethane	<0.000530		mg/kg dry	0.000530	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1-Dichloroethane	<0.000598		mg/kg dry	0.000598	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2-Dichloroethane	<0.000461		mg/kg dry	0.000461	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
cis-1,2-Dichloroethene	<0.000709		mg/kg dry	0.000709	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1-Dichloroethene	<0.000427		mg/kg dry	0.000427	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
trans-1,2-Dichloroethene	<0.000444		mg/kg dry	0.000444	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,3-Dichloropropane	<0.000453		mg/kg dry	0.000453	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2-Dichloropropane	<0.000427		mg/kg dry	0.000427	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
2,2-Dichloropropane	<0.000632		mg/kg dry	0.000632	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
cis-1,3-Dichloropropene	<0.000495		mg/kg dry	0.000495	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
trans-1,3-Dichloropropene	<0.000564		mg/kg dry	0.000564	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1-Dichloropropene	<0.000555		mg/kg dry	0.000555	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Ethylbenzene	<0.000538		mg/kg dry	0.000538	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Hexachlorobutadiene	<0.000547		mg/kg dry	0.000547	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
2-Hexanone	<0.00338		mg/kg dry	0.00338	0.0427	1	07/05/07 08:19	SW846 8260B	7065291
Isopropylbenzene	<0.000470		mg/kg dry	0.000470	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
p-Isopropyltoluene	<0.000581		mg/kg dry	0.000581	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Methyl tert-Butyl Ether	<0.000453		mg/kg dry	0.000453	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Methylene Chloride	<0.00203		mg/kg dry	0.00203	0.00854	1	07/05/07 08:19	SW846 8260B	7065291

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-23 (FD-1 - Soil) - cont. Sampled: 06/26/07									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	<0.00338		mg/kg dry	0.00338	0.0427	1	07/05/07 08:19	SW846 8260B	7065291
Naphthalene	**0.00408**	J	mg/kg dry	0.000692	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
n-Propylbenzene	<0.000572		mg/kg dry	0.000572	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Styrene	<0.000470		mg/kg dry	0.000470	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1,1,2-Tetrachloroethane	<0.000615		mg/kg dry	0.000615	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1,2,2-Tetrachloroethane	<0.000487		mg/kg dry	0.000487	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Tetrachloroethene	<0.000641		mg/kg dry	0.000641	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Toluene	<0.000564		mg/kg dry	0.000564	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2,3-Trichlorobenzene	<0.000709		mg/kg dry	0.000709	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2,4-Trichlorobenzene	<0.000555		mg/kg dry	0.000555	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,1,2-Trichloroethane	<0.000683		mg/kg dry	0.000683	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
1,1,1-Trichloroethane	<0.000615		mg/kg dry	0.000615	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Trichloroethene	<0.000512		mg/kg dry	0.000512	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Trichlorofluoromethane	<0.000743		mg/kg dry	0.000743	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2,3-Trichloropropane	<0.000777		mg/kg dry	0.000777	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,3,5-Trimethylbenzene	<0.000436		mg/kg dry	0.000436	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
1,2,4-Trimethylbenzene	<0.000504		mg/kg dry	0.000504	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Vinyl chloride	<0.000641		mg/kg dry	0.000641	0.00171	1	07/05/07 08:19	SW846 8260B	7065291
Xylenes, total	<0.00111		mg/kg dry	0.00111	0.00427	1	07/05/07 08:19	SW846 8260B	7065291
Surr: 1,2-Dichloroethane-d4 (54-145%)	*93 %*					*1*	*07/05/07 08:19*	*SW846 8260B*	*7065291*
Surr: Dibromofluoromethane (67-129%)	*97 %*					*1*	*07/05/07 08:19*	*SW846 8260B*	*7065291*
Surr: Toluene-d8 (66-142%)	*105 %*					*1*	*07/05/07 08:19*	*SW846 8260B*	*7065291*
Surr: 4-Bromofluorobenzene (68-150%)	*111 %*					*1*	*07/05/07 08:19*	*SW846 8260B*	*7065291*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0403		mg/kg dry	0.0403	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Acenaphthylene	<0.0493		mg/kg dry	0.0493	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Anthracene	<0.0448	L	mg/kg dry	0.0448	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Benzo (a) anthracene	<0.0415		mg/kg dry	0.0415	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Benzo (a) pyrene	<0.0448		mg/kg dry	0.0448	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0426		mg/kg dry	0.0426	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Benzo (g,h,i) perylene	<0.0303		mg/kg dry	0.0303	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0516	L	mg/kg dry	0.0516	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.134		mg/kg dry	0.134	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Butyl benzyl phthalate	<0.147		mg/kg dry	0.147	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Carbazole	<0.148	L	mg/kg dry	0.148	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.134		mg/kg dry	0.134	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4-Chloroaniline	<0.103		mg/kg dry	0.103	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.128		mg/kg dry	0.128	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.118		mg/kg dry	0.118	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.161		mg/kg dry	0.161	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2-Chloronaphthalene	<0.102		mg/kg dry	0.102	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2-Chlorophenol	<0.132		mg/kg dry	0.132	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.139	L	mg/kg dry	0.139	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Chrysene	<0.0437		mg/kg dry	0.0437	0.373	1	07/11/07 05:24	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-23RE1 (FD-1 - Soil) - cont. Sampled: 06/26/07									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Dibenz (a,h) anthracene	<0.0291		mg/kg dry	0.0291	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Dibenzofuran	<0.161	L	mg/kg dry	0.161	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Di-n-butyl phthalate	<0.147		mg/kg dry	0.147	0.373	1	07/11/07 05:24	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.110		mg/kg dry	0.110	0.373	1	07/11/07 05:24	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.103		mg/kg dry	0.103	0.373	1	07/11/07 05:24	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.119		mg/kg dry	0.119	0.373	1	07/11/07 05:24	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.205		mg/kg dry	0.205	0.748	1	07/11/07 05:24	SW846 8270C	7071161
2,4-Dichlorophenol	<0.201		mg/kg dry	0.201	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Diethyl phthalate	<0.104		mg/kg dry	0.104	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2,4-Dimethylphenol	<0.128		mg/kg dry	0.128	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Dimethyl phthalate	<0.132	L	mg/kg dry	0.132	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.220		mg/kg dry	0.220	0.934	1	07/11/07 05:24	SW846 8270C	7071161
2,4-Dinitrophenol	<0.297		mg/kg dry	0.297	0.934	1	07/11/07 05:24	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.137		mg/kg dry	0.137	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2,4-Dinitrotoluene	<0.161		mg/kg dry	0.161	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Di-n-octyl phthalate	<0.148		mg/kg dry	0.148	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.182		mg/kg dry	0.182	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Fluoranthene	<0.0471	L	mg/kg dry	0.0471	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Fluorene	<0.0482		mg/kg dry	0.0482	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Hexachlorobenzene	<0.152		mg/kg dry	0.152	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Hexachlorobutadiene	<0.131		mg/kg dry	0.131	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.141		mg/kg dry	0.141	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Hexachloroethane	<0.115		mg/kg dry	0.115	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	<0.0381		mg/kg dry	0.0381	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Isophorone	<0.149		mg/kg dry	0.149	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2-Methylnaphthalene	<0.0403		mg/kg dry	0.0403	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2-Methylphenol	<0.130		mg/kg dry	0.130	0.373	1	07/11/07 05:24	SW846 8270C	7071161
3/4-Methylphenol	<0.141		mg/kg dry	0.141	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Naphthalene	<0.0448		mg/kg dry	0.0448	0.373	1	07/11/07 05:24	SW846 8270C	7071161
3-Nitroaniline	<0.123		mg/kg dry	0.123	0.934	1	07/11/07 05:24	SW846 8270C	7071161
2-Nitroaniline	<0.126		mg/kg dry	0.126	0.934	1	07/11/07 05:24	SW846 8270C	7071161
4-Nitroaniline	<0.130		mg/kg dry	0.130	0.934	1	07/11/07 05:24	SW846 8270C	7071161
Nitrobenzene	<0.126		mg/kg dry	0.126	0.373	1	07/11/07 05:24	SW846 8270C	7071161
4-Nitrophenol	<0.133		mg/kg dry	0.133	0.934	1	07/11/07 05:24	SW846 8270C	7071161
2-Nitrophenol	<0.222		mg/kg dry	0.222	0.373	1	07/11/07 05:24	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.207		mg/kg dry	0.207	0.373	1	07/11/07 05:24	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.127		mg/kg dry	0.127	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Pentachlorophenol	<0.169		mg/kg dry	0.169	0.934	1	07/11/07 05:24	SW846 8270C	7071161
Phenanthrene	<0.0448		mg/kg dry	0.0448	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Phenol	<0.130		mg/kg dry	0.130	0.373	1	07/11/07 05:24	SW846 8270C	7071161
Pyrene	<0.0527		mg/kg dry	0.0527	0.373	1	07/11/07 05:24	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.111		mg/kg dry	0.111	0.373	1	07/11/07 05:24	SW846 8270C	7071161
1-Methylnaphthalene	<0.0403		mg/kg dry	0.0403	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.108		mg/kg dry	0.108	0.373	1	07/11/07 05:24	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.127		mg/kg dry	0.127	0.934	1	07/11/07 05:24	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-23RE1 (FD-1 - Soil) - cont. Sampled: 06/26/07									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Surr: Terphenyl-d14 (49-123%)	*82 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*83 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*73 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*73 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*70 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*75 %*					*1*	*07/11/07 05:24*	*SW846 8270C*	*7071161*
Sample ID: NQF3703-24 (SS-14 (0-2') - Soil) Sampled: 06/26/07 14:00									
General Chemistry Parameters									
% Dry Solids	**83.0**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**1.94**		mg/kg dry	0.992	1.15	1	07/02/07 21:08	SW846 6010B	7065535
Barium	**232**		mg/kg dry	0.346	2.31	1	07/02/07 21:08	SW846 6010B	7065535
Cadmium	<0.231		mg/kg dry	0.231	1.15	1	07/02/07 21:08	SW846 6010B	7065535
Chromium	**17.0**		mg/kg dry	0.346	1.15	1	07/02/07 21:08	SW846 6010B	7065535
Lead	**115**		mg/kg dry	1.04	1.15	1	07/02/07 21:08	SW846 6010B	7065535
Selenium	<1.73		mg/kg dry	1.73	2.31	1	07/02/07 21:08	SW846 6010B	7065535
Silver	<0.577		mg/kg dry	0.577	1.15	1	07/02/07 21:08	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.245**		mg/kg dry	0.0356	0.119	1	07/05/07 09:54	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000602		mg/kg dry	0.000602	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
delta-BHC	<0.000723		mg/kg dry	0.000723	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
alpha-BHC	<0.000482		mg/kg dry	0.000482	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
beta-BHC	<0.00181		mg/kg dry	0.00181	0.00397	1	07/06/07 22:52	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000964		mg/kg dry	0.000964	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
alpha-Chlordane	<0.00193		mg/kg dry	0.00193	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
gamma-Chlordane	<0.000843		mg/kg dry	0.000843	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Chlordane	<0.0145		mg/kg dry	0.0145	0.0803	1	07/06/07 22:52	SW846 8081A	7065631
4,4'-DDD	<0.000723		mg/kg dry	0.000723	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
4,4'-DDE	<0.000843		mg/kg dry	0.000843	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
4,4'-DDT	<0.000843		mg/kg dry	0.000843	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Dieldrin	<0.000602		mg/kg dry	0.000602	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endosulfan I	<0.000964		mg/kg dry	0.000964	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endosulfan II	<0.00120		mg/kg dry	0.00120	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endosulfan sulfate	<0.000723		mg/kg dry	0.000723	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endrin	<0.000964		mg/kg dry	0.000964	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endrin aldehyde	<0.000723		mg/kg dry	0.000723	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Endrin ketone	<0.00181		mg/kg dry	0.00181	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Heptachlor	<0.000964		mg/kg dry	0.000964	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Heptachlor epoxide	<0.00181		mg/kg dry	0.00181	0.00205	1	07/06/07 22:52	SW846 8081A	7065631
Methoxychlor	<0.00120		mg/kg dry	0.00120	0.00397	1	07/06/07 22:52	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-24 (SS-14 (0-2') - Soil) - cont. Sampled: 06/26/07 14:00									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Toxaphene	<0.0349		mg/kg dry	0.0349	0.0803	1	07/06/07 22:52	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*144 %*					*1*	*07/06/07 22:52*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*104 %*					*1*	*07/06/07 22:52*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	**0.0153**	J	mg/kg dry	0.0145	0.0804	1	07/07/07 02:23	SW846 8151A	7065630
2,4,5-T	<0.0120		mg/kg dry	0.0120	0.0398	1	07/07/07 02:23	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0133		mg/kg dry	0.0133	0.0205	1	07/07/07 02:23	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*60 %*					*1*	*07/07/07 02:23*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0413		mg/kg dry	0.0413	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Acenaphthylene	<0.0504		mg/kg dry	0.0504	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Anthracene	<0.0458	L	mg/kg dry	0.0458	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Benzo (a) anthracene	<0.0424		mg/kg dry	0.0424	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Benzo (a) pyrene	**0.0905**	J	mg/kg dry	0.0458	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Benzo (b) fluoranthene	**0.0947**	J	mg/kg dry	0.0435	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Benzo (g,h,i) perylene	**0.0726**	J	mg/kg dry	0.0309	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Benzo (k) fluoranthene	**0.0917**	J, L	mg/kg dry	0.0527	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.138		mg/kg dry	0.138	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Butyl benzyl phthalate	<0.150		mg/kg dry	0.150	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Carbazole	<0.151	L	mg/kg dry	0.151	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.138		mg/kg dry	0.138	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4-Chloroaniline	<0.105		mg/kg dry	0.105	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.131		mg/kg dry	0.131	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.120		mg/kg dry	0.120	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.165		mg/kg dry	0.165	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2-Chloronaphthalene	<0.104		mg/kg dry	0.104	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2-Chlorophenol	<0.135		mg/kg dry	0.135	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.142	L	mg/kg dry	0.142	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Chrysene	**0.108**	J	mg/kg dry	0.0447	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0298		mg/kg dry	0.0298	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Dibenzofuran	<0.165	L	mg/kg dry	0.165	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Di-n-butyl phthalate	<0.150		mg/kg dry	0.150	0.382	1	07/11/07 05:46	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.112		mg/kg dry	0.112	0.382	1	07/11/07 05:46	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.105		mg/kg dry	0.105	0.382	1	07/11/07 05:46	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.121		mg/kg dry	0.121	0.382	1	07/11/07 05:46	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.210		mg/kg dry	0.210	0.764	1	07/11/07 05:46	SW846 8270C	7071161
2,4-Dichlorophenol	<0.205		mg/kg dry	0.205	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Diethyl phthalate	<0.107		mg/kg dry	0.107	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2,4-Dimethylphenol	<0.131		mg/kg dry	0.131	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Dimethyl phthalate	<0.135	L	mg/kg dry	0.135	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.225		mg/kg dry	0.225	0.955	1	07/11/07 05:46	SW846 8270C	7071161
2,4-Dinitrophenol	<0.304		mg/kg dry	0.304	0.955	1	07/11/07 05:46	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.140		mg/kg dry	0.140	0.382	1	07/11/07 05:46	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-24RE1 (SS-14 (0-2') - Soil) - cont. Sampled: 06/26/07 14:00									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.165		mg/kg dry	0.165	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Di-n-octyl phthalate	<0.151		mg/kg dry	0.151	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.186		mg/kg dry	0.186	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Fluoranthene	**0.229**	J, L	mg/kg dry	0.0481	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Fluorene	<0.0493		mg/kg dry	0.0493	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Hexachlorobenzene	<0.156		mg/kg dry	0.156	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Hexachlorobutadiene	<0.134		mg/kg dry	0.134	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.144		mg/kg dry	0.144	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Hexachloroethane	<0.118		mg/kg dry	0.118	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	**0.0600**	J	mg/kg dry	0.0390	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Isophorone	<0.152		mg/kg dry	0.152	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2-Methylnaphthalene	<0.0413		mg/kg dry	0.0413	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2-Methylphenol	<0.133		mg/kg dry	0.133	0.382	1	07/11/07 05:46	SW846 8270C	7071161
3/4-Methylphenol	<0.144		mg/kg dry	0.144	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Naphthalene	<0.0458		mg/kg dry	0.0458	0.382	1	07/11/07 05:46	SW846 8270C	7071161
3-Nitroaniline	<0.126		mg/kg dry	0.126	0.955	1	07/11/07 05:46	SW846 8270C	7071161
2-Nitroaniline	<0.128		mg/kg dry	0.128	0.955	1	07/11/07 05:46	SW846 8270C	7071161
4-Nitroaniline	<0.133		mg/kg dry	0.133	0.955	1	07/11/07 05:46	SW846 8270C	7071161
Nitrobenzene	<0.128		mg/kg dry	0.128	0.382	1	07/11/07 05:46	SW846 8270C	7071161
4-Nitrophenol	<0.136		mg/kg dry	0.136	0.955	1	07/11/07 05:46	SW846 8270C	7071161
2-Nitrophenol	<0.227		mg/kg dry	0.227	0.382	1	07/11/07 05:46	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.212		mg/kg dry	0.212	0.382	1	07/11/07 05:46	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.129		mg/kg dry	0.129	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Pentachlorophenol	<0.173		mg/kg dry	0.173	0.955	1	07/11/07 05:46	SW846 8270C	7071161
Phenanthrene	**0.100**	J	mg/kg dry	0.0458	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Phenol	<0.133		mg/kg dry	0.133	0.382	1	07/11/07 05:46	SW846 8270C	7071161
Pyrene	**0.169**	J	mg/kg dry	0.0539	0.382	1	07/11/07 05:46	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.113		mg/kg dry	0.113	0.382	1	07/11/07 05:46	SW846 8270C	7071161
1-Methylnaphthalene	<0.0413		mg/kg dry	0.0413	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.110		mg/kg dry	0.110	0.382	1	07/11/07 05:46	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.129		mg/kg dry	0.129	0.955	1	07/11/07 05:46	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*68 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*73 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*67 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*62 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*61 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*64 %*					*1*	*07/11/07 05:46*	*SW846 8270C*	*7071161*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-25 (SUB-9 (8'-10') - Soil) Sampled: 06/26/07 14:10									
General Chemistry Parameters									
% Dry Solids	**84.3**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**3.37**		mg/kg dry	1.03	1.20	1	07/02/07 21:13	SW846 6010B	7065535
Barium	**153**		mg/kg dry	0.359	2.39	1	07/02/07 21:13	SW846 6010B	7065535
Cadmium	<0.239		mg/kg dry	0.239	1.20	1	07/02/07 21:13	SW846 6010B	7065535
Chromium	**23.0**		mg/kg dry	0.359	1.20	1	07/02/07 21:13	SW846 6010B	7065535
Lead	**16.9**		mg/kg dry	1.08	1.20	1	07/02/07 21:13	SW846 6010B	7065535
Selenium	<1.79		mg/kg dry	1.79	2.39	1	07/02/07 21:13	SW846 6010B	7065535
Silver	<0.598		mg/kg dry	0.598	1.20	1	07/02/07 21:13	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0441**	J	mg/kg dry	0.0348	0.116	1	07/05/07 09:56	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000588		mg/kg dry	0.000588	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
delta-BHC	<0.000705		mg/kg dry	0.000705	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
alpha-BHC	<0.000470		mg/kg dry	0.000470	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
beta-BHC	<0.00176		mg/kg dry	0.00176	0.00388	1	07/06/07 23:21	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000941		mg/kg dry	0.000941	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
alpha-Chlordane	<0.00188		mg/kg dry	0.00188	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
gamma-Chlordane	<0.000823		mg/kg dry	0.000823	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Chlordane	<0.0141		mg/kg dry	0.0141	0.0784	1	07/06/07 23:21	SW846 8081A	7065631
4,4'-DDD	<0.000705		mg/kg dry	0.000705	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
4,4'-DDE	<0.000823		mg/kg dry	0.000823	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
4,4'-DDT	<0.000823		mg/kg dry	0.000823	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Dieldrin	<0.000588		mg/kg dry	0.000588	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endosulfan I	<0.000941		mg/kg dry	0.000941	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endosulfan II	<0.00118		mg/kg dry	0.00118	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endosulfan sulfate	<0.000705		mg/kg dry	0.000705	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endrin	<0.000941		mg/kg dry	0.000941	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endrin aldehyde	<0.000705		mg/kg dry	0.000705	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Endrin ketone	<0.00176		mg/kg dry	0.00176	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Heptachlor	<0.000941		mg/kg dry	0.000941	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Heptachlor epoxide	<0.00176		mg/kg dry	0.00176	0.00200	1	07/06/07 23:21	SW846 8081A	7065631
Methoxychlor	<0.00118		mg/kg dry	0.00118	0.00388	1	07/06/07 23:21	SW846 8081A	7065631
Toxaphene	<0.0341		mg/kg dry	0.0341	0.0784	1	07/06/07 23:21	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*146 %*					*1*	*07/06/07 23:21*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*96 %*					*1*	*07/06/07 23:21*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0142		mg/kg dry	0.0142	0.0791	1	07/07/07 02:55	SW846 8151A	7065630
2,4,5-T	<0.0119		mg/kg dry	0.0119	0.0391	1	07/07/07 02:55	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0130		mg/kg dry	0.0130	0.0202	1	07/07/07 02:55	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*61 %*					*1*	*07/07/07 02:55*	*SW846 8151A*	*7065630*
Volatile Organic Compounds by EPA Method 8260B									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-25 (SUB-9 (8'-10') - Soil) - cont. Sampled: 06/26/07 14:10									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Acetone	**0.0608**		mg/kg dry	0.0237	0.0593	1	07/06/07 01:47	SW846 8260B	7065514
Benzene	<0.000712		mg/kg dry	0.000712	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Bromobenzene	<0.00121		mg/kg dry	0.00121	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Bromochloromethane	<0.000771		mg/kg dry	0.000771	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Bromodichloromethane	<0.000759		mg/kg dry	0.000759	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Bromoform	<0.000641		mg/kg dry	0.000641	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Bromomethane	<0.00123		mg/kg dry	0.00123	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
2-Butanone	<0.00743		mg/kg dry	0.00743	0.0593	1	07/06/07 01:47	SW846 8260B	7065514
sec-Butylbenzene	<0.000652		mg/kg dry	0.000652	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
n-Butylbenzene	<0.000641		mg/kg dry	0.000641	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
tert-Butylbenzene	<0.000759		mg/kg dry	0.000759	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Carbon disulfide	**0.00317**	J	mg/kg dry	0.000629	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
Carbon Tetrachloride	<0.000854		mg/kg dry	0.000854	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Chlorobenzene	<0.000664		mg/kg dry	0.000664	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Chlorodibromomethane	<0.000961		mg/kg dry	0.000961	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Chloroethane	<0.00125		mg/kg dry	0.00125	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
Chloroform	<0.00107		mg/kg dry	0.00107	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Chloromethane	<0.000854		mg/kg dry	0.000854	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
2-Chlorotoluene	<0.000652		mg/kg dry	0.000652	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
4-Chlorotoluene	<0.000593		mg/kg dry	0.000593	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2-Dibromo-3-chloropropane	<0.00176		mg/kg dry	0.00176	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
1,2-Dibromoethane (EDB)	<0.000724		mg/kg dry	0.000724	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Dibromomethane	<0.000676		mg/kg dry	0.000676	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,4-Dichlorobenzene	<0.000617		mg/kg dry	0.000617	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,3-Dichlorobenzene	<0.000712		mg/kg dry	0.000712	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2-Dichlorobenzene	<0.000581		mg/kg dry	0.000581	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Dichlorodifluoromethane	<0.000735		mg/kg dry	0.000735	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1-Dichloroethane	<0.000830		mg/kg dry	0.000830	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2-Dichloroethane	<0.000641		mg/kg dry	0.000641	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
cis-1,2-Dichloroethene	<0.000985		mg/kg dry	0.000985	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1-Dichloroethene	<0.000593		mg/kg dry	0.000593	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
trans-1,2-Dichloroethene	<0.000617		mg/kg dry	0.000617	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,3-Dichloropropane	<0.000629		mg/kg dry	0.000629	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2-Dichloropropane	<0.000593		mg/kg dry	0.000593	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
2,2-Dichloropropane	<0.000878		mg/kg dry	0.000878	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
cis-1,3-Dichloropropene	<0.000688		mg/kg dry	0.000688	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
trans-1,3-Dichloropropene	<0.000783		mg/kg dry	0.000783	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1-Dichloropropene	<0.000771		mg/kg dry	0.000771	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Ethylbenzene	<0.000747		mg/kg dry	0.000747	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Hexachlorobutadiene	<0.000759		mg/kg dry	0.000759	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
2-Hexanone	<0.00470		mg/kg dry	0.00470	0.0593	1	07/06/07 01:47	SW846 8260B	7065514
Isopropylbenzene	<0.000652		mg/kg dry	0.000652	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
p-Isopropyltoluene	<0.000807		mg/kg dry	0.000807	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Methyl tert-Butyl Ether	<0.000629		mg/kg dry	0.000629	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Methylene Chloride	<0.00282		mg/kg dry	0.00282	0.0119	1	07/06/07 01:47	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-25 (SUB-9 (8'-10') - Soil) - cont. Sampled: 06/26/07 14:10									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	<0.00470		mg/kg dry	0.00470	0.0593	1	07/06/07 01:47	SW846 8260B	7065514
Naphthalene	<0.000961		mg/kg dry	0.000961	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
n-Propylbenzene	<0.000795		mg/kg dry	0.000795	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Styrene	<0.000652		mg/kg dry	0.000652	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1,1,2-Tetrachloroethane	<0.000854		mg/kg dry	0.000854	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1,2,2-Tetrachloroethane	<0.000676		mg/kg dry	0.000676	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Tetrachloroethene	<0.000890		mg/kg dry	0.000890	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Toluene	<0.000783		mg/kg dry	0.000783	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2,3-Trichlorobenzene	<0.000985		mg/kg dry	0.000985	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2,4-Trichlorobenzene	<0.000771		mg/kg dry	0.000771	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,1,2-Trichloroethane	<0.000949		mg/kg dry	0.000949	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
1,1,1-Trichloroethane	<0.000854		mg/kg dry	0.000854	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Trichloroethene	<0.000712		mg/kg dry	0.000712	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Trichlorofluoromethane	<0.00103		mg/kg dry	0.00103	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2,3-Trichloropropane	<0.00108		mg/kg dry	0.00108	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,3,5-Trimethylbenzene	<0.000605		mg/kg dry	0.000605	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
1,2,4-Trimethylbenzene	<0.000700		mg/kg dry	0.000700	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Vinyl chloride	<0.000890		mg/kg dry	0.000890	0.00237	1	07/06/07 01:47	SW846 8260B	7065514
Xylenes, total	<0.00154		mg/kg dry	0.00154	0.00593	1	07/06/07 01:47	SW846 8260B	7065514
Surr: 1,2-Dichloroethane-d4 (54-145%)	*101 %*					*1*	*07/06/07 01:47*	*SW846 8260B*	*7065514*
Surr: Dibromofluoromethane (67-129%)	*101 %*					*1*	*07/06/07 01:47*	*SW846 8260B*	*7065514*
Surr: Toluene-d8 (66-142%)	*98 %*					*1*	*07/06/07 01:47*	*SW846 8260B*	*7065514*
Surr: 4-Bromofluorobenzene (68-150%)	*100 %*					*1*	*07/06/07 01:47*	*SW846 8260B*	*7065514*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.210	RL1	mg/kg dry	0.210	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Acenaphthylene	<0.257	RL1	mg/kg dry	0.257	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Anthracene	<0.234	RL1	mg/kg dry	0.234	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Benzo (a) anthracene	<0.216	RL1	mg/kg dry	0.216	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Benzo (a) pyrene	<0.234	RL1	mg/kg dry	0.234	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.222	RL1	mg/kg dry	0.222	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.158	RL1	mg/kg dry	0.158	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.269	RL1	mg/kg dry	0.269	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<0.701	RL1	mg/kg dry	0.701	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Butyl benzyl phthalate	<0.765	RL1	mg/kg dry	0.765	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Carbazole	<0.771	RL1	mg/kg dry	0.771	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4-Chloro-3-methylphenol	<0.701	RL1	mg/kg dry	0.701	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4-Chloroaniline	<0.537	RL1	mg/kg dry	0.537	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<0.666	RL1	mg/kg dry	0.666	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<0.613	RL1	mg/kg dry	0.613	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<0.841	RL1	mg/kg dry	0.841	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2-Chloronaphthalene	<0.531	RL1	mg/kg dry	0.531	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2-Chlorophenol	<0.689	RL1	mg/kg dry	0.689	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<0.724	RL1	mg/kg dry	0.724	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Chrysene	<0.228	RL1	mg/kg dry	0.228	1.94	5	07/06/07 17:29	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-25RE1 (SUB-9 (8'-10') - Soil) - cont. Sampled: 06/26/07 14:10									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Dibenz (a,h) anthracene	<0.152	RL1	mg/kg dry	0.152	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Dibenzofuran	<0.841	RL1	mg/kg dry	0.841	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Di-n-butyl phthalate	<0.765	RL1	mg/kg dry	0.765	1.94	5	07/06/07 17:29	SW846 8270C	7065633
1,4-Dichlorobenzene	<0.572	RL1	mg/kg dry	0.572	1.94	5	07/06/07 17:29	SW846 8270C	7065633
1,2-Dichlorobenzene	<0.537	RL1	mg/kg dry	0.537	1.94	5	07/06/07 17:29	SW846 8270C	7065633
1,3-Dichlorobenzene	<0.619	RL1	mg/kg dry	0.619	1.94	5	07/06/07 17:29	SW846 8270C	7065633
3,3-Dichlorobenzidine	<1.07	RL1	mg/kg dry	1.07	3.90	5	07/06/07 17:29	SW846 8270C	7065633
2,4-Dichlorophenol	<1.05	RL1	mg/kg dry	1.05	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Diethyl phthalate	<0.543	RL1	mg/kg dry	0.543	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2,4-Dimethylphenol	<0.666	RL1	mg/kg dry	0.666	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Dimethyl phthalate	<0.689	RL1	mg/kg dry	0.689	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4,6-Dinitro-2-methylphenol	<1.14	RL1	mg/kg dry	1.14	4.86	5	07/06/07 17:29	SW846 8270C	7065633
2,4-Dinitrophenol	<1.55	RL1	mg/kg dry	1.55	4.86	5	07/06/07 17:29	SW846 8270C	7065633
2,6-Dinitrotoluene	<0.712	RL1	mg/kg dry	0.712	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2,4-Dinitrotoluene	<0.841	RL1	mg/kg dry	0.841	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Di-n-octyl phthalate	<0.771	RL1	mg/kg dry	0.771	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<0.946	RL1	mg/kg dry	0.946	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Fluoranthene	<0.245	RL1	mg/kg dry	0.245	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Fluorene	<0.251	RL1	mg/kg dry	0.251	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Hexachlorobenzene	<0.794	RL1	mg/kg dry	0.794	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Hexachlorobutadiene	<0.683	RL1	mg/kg dry	0.683	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Hexachlorocyclopentadiene	<0.736	RL1	mg/kg dry	0.736	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Hexachloroethane	<0.601	RL1	mg/kg dry	0.601	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.199	RL1	mg/kg dry	0.199	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Isophorone	<0.777	RL1	mg/kg dry	0.777	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2-Methylnaphthalene	<0.210	RL1	mg/kg dry	0.210	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2-Methylphenol	<0.677	RL1	mg/kg dry	0.677	1.94	5	07/06/07 17:29	SW846 8270C	7065633
3/4-Methylphenol	<0.736	RL1	mg/kg dry	0.736	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Naphthalene	<0.234	RL1	mg/kg dry	0.234	1.94	5	07/06/07 17:29	SW846 8270C	7065633
3-Nitroaniline	<0.642	RL1	mg/kg dry	0.642	4.86	5	07/06/07 17:29	SW846 8270C	7065633
2-Nitroaniline	<0.654	RL1	mg/kg dry	0.654	4.86	5	07/06/07 17:29	SW846 8270C	7065633
4-Nitroaniline	<0.677	RL1	mg/kg dry	0.677	4.86	5	07/06/07 17:29	SW846 8270C	7065633
Nitrobenzene	<0.654	RL1	mg/kg dry	0.654	1.94	5	07/06/07 17:29	SW846 8270C	7065633
4-Nitrophenol	<0.695	RL1	mg/kg dry	0.695	4.86	5	07/06/07 17:29	SW846 8270C	7065633
2-Nitrophenol	<1.16	RL1	mg/kg dry	1.16	1.94	5	07/06/07 17:29	SW846 8270C	7065633
N-Nitrosodiphenylamine	<1.08	RL1	mg/kg dry	1.08	1.94	5	07/06/07 17:29	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<0.660	RL1	mg/kg dry	0.660	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Pentachlorophenol	<0.882	RL1	mg/kg dry	0.882	4.86	5	07/06/07 17:29	SW846 8270C	7065633
Phenanthrene	<0.234	RL1	mg/kg dry	0.234	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Phenol	<0.677	RL1	mg/kg dry	0.677	1.94	5	07/06/07 17:29	SW846 8270C	7065633
Pyrene	<0.274	RL1	mg/kg dry	0.274	1.94	5	07/06/07 17:29	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<0.578	RL1	mg/kg dry	0.578	1.94	5	07/06/07 17:29	SW846 8270C	7065633
1-Methylnaphthalene	<0.210	RL1	mg/kg dry	0.210	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2,4,6-Trichlorophenol	<0.561	RL1	mg/kg dry	0.561	1.94	5	07/06/07 17:29	SW846 8270C	7065633
2,4,5-Trichlorophenol	<0.660	RL1	mg/kg dry	0.660	4.86	5	07/06/07 17:29	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-25RE1 (SUB-9 (8'-10') - Soil) - cont. Sampled: 06/26/07 14:10									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Surr: Terphenyl-d14 (49-123%)	*66 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*46 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*60 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*48 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*40 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*44 %*					*5*	*07/06/07 17:29*	*SW846 8270C*	*7065633*
Sample ID: NQF3703-26 (SS-15 (0-2') - Soil) Sampled: 06/26/07 14:35									
General Chemistry Parameters									
% Dry Solids	**85.8**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**3.78**		mg/kg dry	1.01	1.17	1	07/02/07 21:17	SW846 6010B	7065535
Barium	**199**		mg/kg dry	0.352	2.35	1	07/02/07 21:17	SW846 6010B	7065535
Cadmium	<0.235		mg/kg dry	0.235	1.17	1	07/02/07 21:17	SW846 6010B	7065535
Chromium	**25.6**		mg/kg dry	0.352	1.17	1	07/02/07 21:17	SW846 6010B	7065535
Lead	**24.3**		mg/kg dry	1.06	1.17	1	07/02/07 21:17	SW846 6010B	7065535
Selenium	<1.76		mg/kg dry	1.76	2.35	1	07/02/07 21:17	SW846 6010B	7065535
Silver	<0.587		mg/kg dry	0.587	1.17	1	07/02/07 21:17	SW846 6010B	7065535
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0748**	J	mg/kg dry	0.0350	0.117	1	07/05/07 09:58	SW846 7471A	7070076
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000572		mg/kg dry	0.000572	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
delta-BHC	<0.000686		mg/kg dry	0.000686	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
alpha-BHC	<0.000458		mg/kg dry	0.000458	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
beta-BHC	<0.00172		mg/kg dry	0.00172	0.00377	1	07/07/07 01:18	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000915		mg/kg dry	0.000915	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
alpha-Chlordane	<0.00183		mg/kg dry	0.00183	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
gamma-Chlordane	<0.000801		mg/kg dry	0.000801	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Chlordane	<0.0137		mg/kg dry	0.0137	0.0763	1	07/07/07 01:18	SW846 8081A	7065631
4,4'-DDD	<0.000686		mg/kg dry	0.000686	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
4,4'-DDE	<0.000801		mg/kg dry	0.000801	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
4,4'-DDT	<0.000801		mg/kg dry	0.000801	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Dieldrin	<0.000572		mg/kg dry	0.000572	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endosulfan I	<0.000915		mg/kg dry	0.000915	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endosulfan II	<0.00114		mg/kg dry	0.00114	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endosulfan sulfate	<0.000686		mg/kg dry	0.000686	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endrin	<0.000915		mg/kg dry	0.000915	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endrin aldehyde	<0.000686		mg/kg dry	0.000686	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Endrin ketone	<0.00172		mg/kg dry	0.00172	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Heptachlor	<0.000915		mg/kg dry	0.000915	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Heptachlor epoxide	<0.00172		mg/kg dry	0.00172	0.00194	1	07/07/07 01:18	SW846 8081A	7065631
Methoxychlor	<0.00114		mg/kg dry	0.00114	0.00377	1	07/07/07 01:18	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-26 (SS-15 (0-2') - Soil) - cont. Sampled: 06/26/07 14:35									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Toxaphene	<0.0332		mg/kg dry	0.0332	0.0763	1	07/07/07 01:18	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*136 %*					*1*	*07/07/07 01:18*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*104 %*					*1*	*07/07/07 01:18*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0140		mg/kg dry	0.0140	0.0777	1	07/07/07 03:57	SW846 8151A	7065630
2,4,5-T	<0.0117		mg/kg dry	0.0117	0.0385	1	07/07/07 03:57	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0128		mg/kg dry	0.0128	0.0198	1	07/07/07 03:57	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*78 %*					*1*	*07/07/07 03:57*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0409		mg/kg dry	0.0409	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Acenaphthylene	<0.0500		mg/kg dry	0.0500	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Anthracene	<0.0455	L	mg/kg dry	0.0455	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Benzo (a) anthracene	<0.0420		mg/kg dry	0.0420	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Benzo (a) pyrene	<0.0455		mg/kg dry	0.0455	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Benzo (b) fluoranthene	<0.0432		mg/kg dry	0.0432	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Benzo (g,h,i) perylene	<0.0307		mg/kg dry	0.0307	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Benzo (k) fluoranthene	<0.0523	L	mg/kg dry	0.0523	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4-Bromophenyl phenyl ether	<0.136		mg/kg dry	0.136	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Butyl benzyl phthalate	<0.149		mg/kg dry	0.149	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Carbazole	<0.150	L	mg/kg dry	0.150	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4-Chloro-3-methylphenol	<0.136		mg/kg dry	0.136	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4-Chloroaniline	<0.105		mg/kg dry	0.105	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Bis(2-chloroethoxy)methane	<0.130		mg/kg dry	0.130	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Bis(2-chloroethyl)ether	<0.119		mg/kg dry	0.119	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Bis(2-chloroisopropyl)ether	<0.164		mg/kg dry	0.164	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2-Chloronaphthalene	<0.103		mg/kg dry	0.103	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2-Chlorophenol	<0.134		mg/kg dry	0.134	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4-Chlorophenyl phenyl ether	<0.141	L	mg/kg dry	0.141	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Chrysene	<0.0443		mg/kg dry	0.0443	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Dibenz (a,h) anthracene	<0.0295		mg/kg dry	0.0295	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Dibenzofuran	<0.164	L	mg/kg dry	0.164	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Di-n-butyl phthalate	<0.149		mg/kg dry	0.149	0.378	1	07/11/07 06:08	SW846 8270C	7071161
1,4-Dichlorobenzene	<0.111		mg/kg dry	0.111	0.378	1	07/11/07 06:08	SW846 8270C	7071161
1,2-Dichlorobenzene	<0.105		mg/kg dry	0.105	0.378	1	07/11/07 06:08	SW846 8270C	7071161
1,3-Dichlorobenzene	<0.120		mg/kg dry	0.120	0.378	1	07/11/07 06:08	SW846 8270C	7071161
3,3-Dichlorobenzidine	<0.208		mg/kg dry	0.208	0.758	1	07/11/07 06:08	SW846 8270C	7071161
2,4-Dichlorophenol	<0.203		mg/kg dry	0.203	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Diethyl phthalate	<0.106		mg/kg dry	0.106	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2,4-Dimethylphenol	<0.130		mg/kg dry	0.130	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Dimethyl phthalate	<0.134	L	mg/kg dry	0.134	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4,6-Dinitro-2-methylphenol	<0.223		mg/kg dry	0.223	0.947	1	07/11/07 06:08	SW846 8270C	7071161
2,4-Dinitrophenol	<0.301		mg/kg dry	0.301	0.947	1	07/11/07 06:08	SW846 8270C	7071161
2,6-Dinitrotoluene	<0.139		mg/kg dry	0.139	0.378	1	07/11/07 06:08	SW846 8270C	7071161

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-26RE1 (SS-15 (0-2') - Soil) - cont. Sampled: 06/26/07 14:35									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.164		mg/kg dry	0.164	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Di-n-octyl phthalate	<0.150		mg/kg dry	0.150	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Bis(2-ethylhexyl)phthalate	<0.184		mg/kg dry	0.184	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Fluoranthene	<0.0477	L	mg/kg dry	0.0477	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Fluorene	<0.0489		mg/kg dry	0.0489	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Hexachlorobenzene	<0.155		mg/kg dry	0.155	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Hexachlorobutadiene	<0.133		mg/kg dry	0.133	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Hexachlorocyclopentadiene	<0.143		mg/kg dry	0.143	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Hexachloroethane	<0.117		mg/kg dry	0.117	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Indeno (1,2,3-cd) pyrene	<0.0386		mg/kg dry	0.0386	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Isophorone	<0.151		mg/kg dry	0.151	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2-Methylnaphthalene	<0.0409		mg/kg dry	0.0409	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2-Methylphenol	<0.132		mg/kg dry	0.132	0.378	1	07/11/07 06:08	SW846 8270C	7071161
3/4-Methylphenol	<0.143		mg/kg dry	0.143	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Naphthalene	<0.0455		mg/kg dry	0.0455	0.378	1	07/11/07 06:08	SW846 8270C	7071161
3-Nitroaniline	<0.125		mg/kg dry	0.125	0.947	1	07/11/07 06:08	SW846 8270C	7071161
2-Nitroaniline	<0.127		mg/kg dry	0.127	0.947	1	07/11/07 06:08	SW846 8270C	7071161
4-Nitroaniline	<0.132		mg/kg dry	0.132	0.947	1	07/11/07 06:08	SW846 8270C	7071161
Nitrobenzene	<0.127		mg/kg dry	0.127	0.378	1	07/11/07 06:08	SW846 8270C	7071161
4-Nitrophenol	<0.135		mg/kg dry	0.135	0.947	1	07/11/07 06:08	SW846 8270C	7071161
2-Nitrophenol	<0.225		mg/kg dry	0.225	0.378	1	07/11/07 06:08	SW846 8270C	7071161
N-Nitrosodiphenylamine	<0.210		mg/kg dry	0.210	0.378	1	07/11/07 06:08	SW846 8270C	7071161
N-Nitrosodi-n-propylamine	<0.128		mg/kg dry	0.128	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Pentachlorophenol	<0.172		mg/kg dry	0.172	0.947	1	07/11/07 06:08	SW846 8270C	7071161
Phenanthrene	<0.0455		mg/kg dry	0.0455	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Phenol	<0.132		mg/kg dry	0.132	0.378	1	07/11/07 06:08	SW846 8270C	7071161
Pyrene	<0.0534		mg/kg dry	0.0534	0.378	1	07/11/07 06:08	SW846 8270C	7071161
1,2,4-Trichlorobenzene	<0.112		mg/kg dry	0.112	0.378	1	07/11/07 06:08	SW846 8270C	7071161
1-Methylnaphthalene	<0.0409		mg/kg dry	0.0409	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2,4,6-Trichlorophenol	<0.109		mg/kg dry	0.109	0.378	1	07/11/07 06:08	SW846 8270C	7071161
2,4,5-Trichlorophenol	<0.128		mg/kg dry	0.128	0.947	1	07/11/07 06:08	SW846 8270C	7071161
Surr: Terphenyl-d14 (49-123%)	*85 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*
Surr: 2,4,6-Tribromophenol (26-116%)	*87 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*
Surr: Phenol-d5 (24-103%)	*74 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*
Surr: 2-Fluorobiphenyl (30-93%)	*77 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*
Surr: 2-Fluorophenol (27-93%)	*72 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*
Surr: Nitrobenzene-d5 (34-87%)	*75 %*					*1*	*07/11/07 06:08*	*SW846 8270C*	*7071161*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-27 (SUB-10 (4'-6') - Soil) Sampled: 06/26/07 14:40									
General Chemistry Parameters									
% Dry Solids	**78.3**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**6.93**		mg/kg dry	1.07	1.24	1	07/02/07 14:33	SW846 6010B	7070096
Barium	**231**		mg/kg dry	0.373	2.48	1	07/02/07 14:33	SW846 6010B	7070096
Cadmium	<0.248		mg/kg dry	0.248	1.24	1	07/02/07 14:33	SW846 6010B	7070096
Chromium	**24.5**	M1	mg/kg dry	0.373	1.24	1	07/02/07 14:33	SW846 6010B	7070096
Lead	**33.2**		mg/kg dry	1.12	1.24	1	07/02/07 14:33	SW846 6010B	7070096
Selenium	**1.89**	J	mg/kg dry	1.86	2.48	1	07/02/07 14:33	SW846 6010B	7070096
Silver	<0.621		mg/kg dry	0.621	1.24	1	07/02/07 14:33	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0519**	J	mg/kg dry	0.0378	0.126	1	07/05/07 11:23	SW846 7471A	7070078
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000636		mg/kg dry	0.000636	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
delta-BHC	<0.000764		mg/kg dry	0.000764	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
alpha-BHC	<0.000509		mg/kg dry	0.000509	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
beta-BHC	<0.00191		mg/kg dry	0.00191	0.00420	1	07/08/07 10:56	SW846 8081A	7070488
gamma-BHC (Lindane)	<0.00102		mg/kg dry	0.00102	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
alpha-Chlordane	<0.00204		mg/kg dry	0.00204	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
gamma-Chlordane	<0.000891		mg/kg dry	0.000891	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Chlordane	<0.0153		mg/kg dry	0.0153	0.0849	1	07/08/07 10:56	SW846 8081A	7070488
4,4'-DDD	<0.000764		mg/kg dry	0.000764	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
4,4'-DDE	<0.000891		mg/kg dry	0.000891	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
4,4'-DDT	<0.000891		mg/kg dry	0.000891	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Dieldrin	<0.000636		mg/kg dry	0.000636	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endosulfan I	<0.00102		mg/kg dry	0.00102	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endosulfan II	<0.00127		mg/kg dry	0.00127	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endosulfan sulfate	<0.000764		mg/kg dry	0.000764	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endrin	<0.00102		mg/kg dry	0.00102	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endrin aldehyde	<0.000764		mg/kg dry	0.000764	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Endrin ketone	<0.00191		mg/kg dry	0.00191	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Heptachlor	<0.00102		mg/kg dry	0.00102	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Heptachlor epoxide	<0.00191		mg/kg dry	0.00191	0.00216	1	07/08/07 10:56	SW846 8081A	7070488
Methoxychlor	<0.00127		mg/kg dry	0.00127	0.00420	1	07/08/07 10:56	SW846 8081A	7070488
Toxaphene	<0.0369		mg/kg dry	0.0369	0.0849	1	07/08/07 10:56	SW846 8081A	7070488
Surr: Tetrachloro-meta-xylene (27-165%)	*228 %*	*Z5*				*1*	*07/08/07 10:56*	*SW846 8081A*	*7070488*
Surr: Decachlorobiphenyl (37-171%)	*122 %*					*1*	*07/08/07 10:56*	*SW846 8081A*	*7070488*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0153		mg/kg dry	0.0153	0.0852	1	07/10/07 10:40	SW846 8151A	7070235
2,4,5-T	<0.0128		mg/kg dry	0.0128	0.0421	1	07/10/07 10:40	SW846 8151A	7070235
2,4,5-TP (Silvex)	<0.0140		mg/kg dry	0.0140	0.0217	1	07/10/07 10:40	SW846 8151A	7070235
Surr: Dichloroacetic Acid (27-162%)	*104 %*					*1*	*07/10/07 10:40*	*SW846 8151A*	*7070235*
Volatile Organic Compounds by EPA Method 8260B									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-27 (SUB-10 (4'-6') - Soil) - cont. Sampled: 06/26/07 14:40									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Acetone	**0.0363**	J	mg/kg dry	0.0255	0.0639	1	07/06/07 02:18	SW846 8260B	7065514
Benzene	<0.000766		mg/kg dry	0.000766	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Bromobenzene	<0.00130		mg/kg dry	0.00130	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Bromochloromethane	<0.000830		mg/kg dry	0.000830	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Bromodichloromethane	<0.000817		mg/kg dry	0.000817	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Bromoform	<0.000690		mg/kg dry	0.000690	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Bromomethane	<0.00133		mg/kg dry	0.00133	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
2-Butanone	<0.00799		mg/kg dry	0.00799	0.0639	1	07/06/07 02:18	SW846 8260B	7065514
sec-Butylbenzene	<0.000702		mg/kg dry	0.000702	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
n-Butylbenzene	<0.000690		mg/kg dry	0.000690	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
tert-Butylbenzene	<0.000817		mg/kg dry	0.000817	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Carbon disulfide	<0.000677		mg/kg dry	0.000677	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
Carbon Tetrachloride	<0.000920		mg/kg dry	0.000920	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Chlorobenzene	<0.000715		mg/kg dry	0.000715	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Chlorodibromomethane	<0.00103		mg/kg dry	0.00103	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Chloroethane	<0.00134		mg/kg dry	0.00134	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
Chloroform	<0.00115		mg/kg dry	0.00115	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Chloromethane	<0.000920		mg/kg dry	0.000920	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
2-Chlorotoluene	<0.000702		mg/kg dry	0.000702	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
4-Chlorotoluene	<0.000639		mg/kg dry	0.000639	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2-Dibromo-3-chloropropane	<0.00189		mg/kg dry	0.00189	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
1,2-Dibromoethane (EDB)	<0.000779		mg/kg dry	0.000779	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Dibromomethane	<0.000728		mg/kg dry	0.000728	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,4-Dichlorobenzene	<0.000664		mg/kg dry	0.000664	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,3-Dichlorobenzene	<0.000766		mg/kg dry	0.000766	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2-Dichlorobenzene	<0.000626		mg/kg dry	0.000626	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Dichlorodifluoromethane	<0.000792		mg/kg dry	0.000792	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1-Dichloroethane	<0.000894		mg/kg dry	0.000894	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2-Dichloroethane	<0.000690		mg/kg dry	0.000690	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
cis-1,2-Dichloroethene	<0.00106		mg/kg dry	0.00106	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1-Dichloroethene	<0.000639		mg/kg dry	0.000639	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
trans-1,2-Dichloroethene	<0.000664		mg/kg dry	0.000664	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,3-Dichloropropane	<0.000677		mg/kg dry	0.000677	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2-Dichloropropane	<0.000639		mg/kg dry	0.000639	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
2,2-Dichloropropane	<0.000945		mg/kg dry	0.000945	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
cis-1,3-Dichloropropene	<0.000741		mg/kg dry	0.000741	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
trans-1,3-Dichloropropene	<0.000843		mg/kg dry	0.000843	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1-Dichloropropene	<0.000830		mg/kg dry	0.000830	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Ethylbenzene	<0.000805		mg/kg dry	0.000805	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Hexachlorobutadiene	<0.000817		mg/kg dry	0.000817	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
2-Hexanone	<0.00506		mg/kg dry	0.00506	0.0639	1	07/06/07 02:18	SW846 8260B	7065514
Isopropylbenzene	<0.000702		mg/kg dry	0.000702	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
p-Isopropyltoluene	<0.000868		mg/kg dry	0.000868	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Methyl tert-Butyl Ether	<0.000677		mg/kg dry	0.000677	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Methylene Chloride	<0.00304		mg/kg dry	0.00304	0.0128	1	07/06/07 02:18	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-27 (SUB-10 (4'-6') - Soil) - cont. Sampled: 06/26/07 14:40									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	<0.00506		mg/kg dry	0.00506	0.0639	1	07/06/07 02:18	SW846 8260B	7065514
Naphthalene	<0.00103		mg/kg dry	0.00103	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
n-Propylbenzene	<0.000856		mg/kg dry	0.000856	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Styrene	<0.000702		mg/kg dry	0.000702	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1,1,2-Tetrachloroethane	<0.000920		mg/kg dry	0.000920	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1,2,2-Tetrachloroethane	<0.000728		mg/kg dry	0.000728	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Tetrachloroethene	<0.000958		mg/kg dry	0.000958	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Toluene	<0.000843		mg/kg dry	0.000843	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2,3-Trichlorobenzene	<0.00106		mg/kg dry	0.00106	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2,4-Trichlorobenzene	<0.000830		mg/kg dry	0.000830	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,1,2-Trichloroethane	<0.00102		mg/kg dry	0.00102	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
1,1,1-Trichloroethane	<0.000920		mg/kg dry	0.000920	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Trichloroethene	<0.000766		mg/kg dry	0.000766	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Trichlorofluoromethane	<0.00111		mg/kg dry	0.00111	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2,3-Trichloropropane	<0.00116		mg/kg dry	0.00116	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,3,5-Trimethylbenzene	<0.000651		mg/kg dry	0.000651	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
1,2,4-Trimethylbenzene	<0.000754		mg/kg dry	0.000754	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Vinyl chloride	<0.000958		mg/kg dry	0.000958	0.00255	1	07/06/07 02:18	SW846 8260B	7065514
Xylenes, total	<0.00166		mg/kg dry	0.00166	0.00639	1	07/06/07 02:18	SW846 8260B	7065514
Surr: 1,2-Dichloroethane-d4 (54-145%)	*102 %*					*1*	*07/06/07 02:18*	*SW846 8260B*	*7065514*
Surr: Dibromofluoromethane (67-129%)	*100 %*					*1*	*07/06/07 02:18*	*SW846 8260B*	*7065514*
Surr: Toluene-d8 (66-142%)	*98 %*					*1*	*07/06/07 02:18*	*SW846 8260B*	*7065514*
Surr: 4-Bromofluorobenzene (68-150%)	*98 %*					*1*	*07/06/07 02:18*	*SW846 8260B*	*7065514*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0458		mg/kg dry	0.0458	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Acenaphthylene	<0.0560		mg/kg dry	0.0560	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Anthracene	<0.0509		mg/kg dry	0.0509	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Benzo (a) anthracene	<0.0471		mg/kg dry	0.0471	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Benzo (a) pyrene	<0.0509		mg/kg dry	0.0509	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Benzo (b) fluoranthene	<0.0484		mg/kg dry	0.0484	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Benzo (g,h,i) perylene	<0.0344		mg/kg dry	0.0344	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Benzo (k) fluoranthene	<0.0586		mg/kg dry	0.0586	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4-Bromophenyl phenyl ether	<0.153		mg/kg dry	0.153	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Butyl benzyl phthalate	<0.167		mg/kg dry	0.167	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Carbazole	<0.168		mg/kg dry	0.168	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4-Chloro-3-methylphenol	<0.153		mg/kg dry	0.153	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4-Chloroaniline	<0.117		mg/kg dry	0.117	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Bis(2-chloroethoxy)methane	<0.145		mg/kg dry	0.145	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Bis(2-chloroethyl)ether	<0.134		mg/kg dry	0.134	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Bis(2-chloroisopropyl)ether	<0.183		mg/kg dry	0.183	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2-Chloronaphthalene	<0.116		mg/kg dry	0.116	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2-Chlorophenol	<0.150		mg/kg dry	0.150	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4-Chlorophenyl phenyl ether	<0.158		mg/kg dry	0.158	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Chrysene	<0.0496		mg/kg dry	0.0496	0.424	1	07/07/07 18:19	SW846 8270C	7070253

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-27 (SUB-10 (4'-6') - Soil) - cont. Sampled: 06/26/07 14:40									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Dibenz (a,h) anthracene	<0.0331		mg/kg dry	0.0331	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Dibenzofuran	<0.183		mg/kg dry	0.183	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Di-n-butyl phthalate	<0.167		mg/kg dry	0.167	0.424	1	07/07/07 18:19	SW846 8270C	7070253
1,4-Dichlorobenzene	<0.125		mg/kg dry	0.125	0.424	1	07/07/07 18:19	SW846 8270C	7070253
1,2-Dichlorobenzene	<0.117		mg/kg dry	0.117	0.424	1	07/07/07 18:19	SW846 8270C	7070253
1,3-Dichlorobenzene	<0.135		mg/kg dry	0.135	0.424	1	07/07/07 18:19	SW846 8270C	7070253
3,3-Dichlorobenzidine	<0.233		mg/kg dry	0.233	0.849	1	07/07/07 18:19	SW846 8270C	7070253
2,4-Dichlorophenol	<0.228		mg/kg dry	0.228	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Diethyl phthalate	<0.118		mg/kg dry	0.118	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2,4-Dimethylphenol	<0.145		mg/kg dry	0.145	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Dimethyl phthalate	<0.150		mg/kg dry	0.150	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4,6-Dinitro-2-methylphenol	<0.249		mg/kg dry	0.249	1.06	1	07/07/07 18:19	SW846 8270C	7070253
2,4-Dinitrophenol	<0.337		mg/kg dry	0.337	1.06	1	07/07/07 18:19	SW846 8270C	7070253
2,6-Dinitrotoluene	<0.155		mg/kg dry	0.155	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2,4-Dinitrotoluene	<0.183		mg/kg dry	0.183	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Di-n-octyl phthalate	<0.168		mg/kg dry	0.168	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Bis(2-ethylhexyl)phthalate	<0.206		mg/kg dry	0.206	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Fluoranthene	<0.0535		mg/kg dry	0.0535	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Fluorene	<0.0547		mg/kg dry	0.0547	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Hexachlorobenzene	<0.173		mg/kg dry	0.173	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Hexachlorobutadiene	<0.149		mg/kg dry	0.149	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Hexachlorocyclopentadiene	<0.160		mg/kg dry	0.160	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Hexachloroethane	<0.131		mg/kg dry	0.131	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Indeno (1,2,3-cd) pyrene	<0.0433		mg/kg dry	0.0433	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Isophorone	<0.169		mg/kg dry	0.169	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2-Methylnaphthalene	<0.0458		mg/kg dry	0.0458	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2-Methylphenol	<0.148		mg/kg dry	0.148	0.424	1	07/07/07 18:19	SW846 8270C	7070253
3/4-Methylphenol	<0.160		mg/kg dry	0.160	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Naphthalene	<0.0509		mg/kg dry	0.0509	0.424	1	07/07/07 18:19	SW846 8270C	7070253
3-Nitroaniline	<0.140		mg/kg dry	0.140	1.06	1	07/07/07 18:19	SW846 8270C	7070253
2-Nitroaniline	<0.143		mg/kg dry	0.143	1.06	1	07/07/07 18:19	SW846 8270C	7070253
4-Nitroaniline	<0.148		mg/kg dry	0.148	1.06	1	07/07/07 18:19	SW846 8270C	7070253
Nitrobenzene	<0.143		mg/kg dry	0.143	0.424	1	07/07/07 18:19	SW846 8270C	7070253
4-Nitrophenol	<0.151		mg/kg dry	0.151	1.06	1	07/07/07 18:19	SW846 8270C	7070253
2-Nitrophenol	<0.252		mg/kg dry	0.252	0.424	1	07/07/07 18:19	SW846 8270C	7070253
N-Nitrosodiphenylamine	<0.235		mg/kg dry	0.235	0.424	1	07/07/07 18:19	SW846 8270C	7070253
N-Nitrosodi-n-propylamine	<0.144		mg/kg dry	0.144	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Pentachlorophenol	<0.192		mg/kg dry	0.192	1.06	1	07/07/07 18:19	SW846 8270C	7070253
Phenanthrene	<0.0509		mg/kg dry	0.0509	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Phenol	<0.148		mg/kg dry	0.148	0.424	1	07/07/07 18:19	SW846 8270C	7070253
Pyrene	<0.0598		mg/kg dry	0.0598	0.424	1	07/07/07 18:19	SW846 8270C	7070253
1,2,4-Trichlorobenzene	<0.126		mg/kg dry	0.126	0.424	1	07/07/07 18:19	SW846 8270C	7070253
1-Methylnaphthalene	<0.0458		mg/kg dry	0.0458	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2,4,6-Trichlorophenol	<0.122		mg/kg dry	0.122	0.424	1	07/07/07 18:19	SW846 8270C	7070253
2,4,5-Trichlorophenol	<0.144		mg/kg dry	0.144	1.06	1	07/07/07 18:19	SW846 8270C	7070253

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-27 (SUB-10 (4'-6') - Soil) - cont. Sampled: 06/26/07 14:40									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Surr: Terphenyl-d14 (49-123%)	*95 %*					*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Surr: 2,4,6-Tribromophenol (26-116%)	*96 %*					*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Surr: Phenol-d5 (24-103%)	*91 %*					*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Surr: 2-Fluorobiphenyl (30-93%)	*91 %*					*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Surr: 2-Fluorophenol (27-93%)	*92 %*					*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Surr: Nitrobenzene-d5 (34-87%)	*90 %*	*Z10*				*1*	*07/07/07 18:19*	*SW846 8270C*	*7070253*
Sample ID: NQF3703-28 (SS-17 (0-2') - Soil) Sampled: 06/26/07 15:30									
General Chemistry Parameters									
% Dry Solids	**82.2**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**5.12**		mg/kg dry	1.04	1.21	1	07/06/07 10:37	SW846 6010B	7065534
Barium	**108**		mg/kg dry	0.362	2.41	1	07/06/07 10:37	SW846 6010B	7065534
Cadmium	**0.893**	J	mg/kg dry	0.241	1.21	1	07/06/07 10:37	SW846 6010B	7065534
Chromium	**30.9**		mg/kg dry	0.362	1.21	1	07/06/07 10:37	SW846 6010B	7065534
Lead	**18.0**		mg/kg dry	1.09	1.21	1	07/06/07 10:37	SW846 6010B	7065534
Selenium	**6.44**		mg/kg dry	1.81	2.41	1	07/06/07 10:37	SW846 6010B	7065534
Silver	<0.603		mg/kg dry	0.603	1.21	1	07/06/07 10:37	SW846 6010B	7065534
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0356		mg/kg dry	0.0356	0.119	1	07/06/07 08:41	SW846 7471A	7070075
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000608		mg/kg dry	0.000608	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
delta-BHC	<0.000729		mg/kg dry	0.000729	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
alpha-BHC	<0.000486		mg/kg dry	0.000486	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
beta-BHC	<0.00182		mg/kg dry	0.00182	0.00401	1	07/07/07 01:48	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000973		mg/kg dry	0.000973	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
alpha-Chlordane	<0.00195		mg/kg dry	0.00195	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
gamma-Chlordane	<0.000851		mg/kg dry	0.000851	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Chlordane	<0.0146		mg/kg dry	0.0146	0.0811	1	07/07/07 01:48	SW846 8081A	7065631
4,4'-DDD	<0.000729		mg/kg dry	0.000729	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
4,4'-DDE	<0.000851		mg/kg dry	0.000851	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
4,4'-DDT	<0.000851		mg/kg dry	0.000851	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Dieldrin	<0.000608		mg/kg dry	0.000608	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endosulfan I	<0.000973		mg/kg dry	0.000973	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endosulfan II	<0.00122		mg/kg dry	0.00122	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endosulfan sulfate	<0.000729		mg/kg dry	0.000729	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endrin	<0.000973		mg/kg dry	0.000973	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endrin aldehyde	<0.000729		mg/kg dry	0.000729	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Endrin ketone	<0.00182		mg/kg dry	0.00182	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Heptachlor	<0.000973		mg/kg dry	0.000973	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Heptachlor epoxide	<0.00182		mg/kg dry	0.00182	0.00207	1	07/07/07 01:48	SW846 8081A	7065631
Methoxychlor	<0.00122		mg/kg dry	0.00122	0.00401	1	07/07/07 01:48	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-28 (SS-17 (0-2') - Soil) - cont. Sampled: 06/26/07 15:30									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Toxaphene	<0.0353		mg/kg dry	0.0353	0.0811	1	07/07/07 01:48	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*130 %*					*1*	*07/07/07 01:48*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*114 %*					*1*	*07/07/07 01:48*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0146		mg/kg dry	0.0146	0.0811	1	07/07/07 04:28	SW846 8151A	7065630
2,4,5-T	<0.0122		mg/kg dry	0.0122	0.0401	1	07/07/07 04:28	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0134		mg/kg dry	0.0134	0.0207	1	07/07/07 04:28	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*69 %*					*1*	*07/07/07 04:28*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0423		mg/kg dry	0.0423	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Acenaphthylene	<0.0517		mg/kg dry	0.0517	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Anthracene	<0.0470		mg/kg dry	0.0470	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Benzo (a) anthracene	<0.0435		mg/kg dry	0.0435	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Benzo (a) pyrene	<0.0470		mg/kg dry	0.0470	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.0446		mg/kg dry	0.0446	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.0317		mg/kg dry	0.0317	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.0540		mg/kg dry	0.0540	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<0.141		mg/kg dry	0.141	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Butyl benzyl phthalate	<0.154		mg/kg dry	0.154	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Carbazole	<0.155		mg/kg dry	0.155	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4-Chloro-3-methylphenol	<0.141		mg/kg dry	0.141	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4-Chloroaniline	<0.108		mg/kg dry	0.108	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<0.134		mg/kg dry	0.134	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<0.123		mg/kg dry	0.123	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<0.169		mg/kg dry	0.169	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2-Chloronaphthalene	<0.107		mg/kg dry	0.107	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2-Chlorophenol	<0.139		mg/kg dry	0.139	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<0.146		mg/kg dry	0.146	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Chrysene	<0.0458		mg/kg dry	0.0458	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Dibenz (a,h) anthracene	<0.0305		mg/kg dry	0.0305	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Dibenzofuran	<0.169		mg/kg dry	0.169	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Di-n-butyl phthalate	<0.154		mg/kg dry	0.154	0.391	1	07/06/07 17:58	SW846 8270C	7065633
1,4-Dichlorobenzene	<0.115		mg/kg dry	0.115	0.391	1	07/06/07 17:58	SW846 8270C	7065633
1,2-Dichlorobenzene	<0.108		mg/kg dry	0.108	0.391	1	07/06/07 17:58	SW846 8270C	7065633
1,3-Dichlorobenzene	<0.125		mg/kg dry	0.125	0.391	1	07/06/07 17:58	SW846 8270C	7065633
3,3-Dichlorobenzidine	<0.215		mg/kg dry	0.215	0.783	1	07/06/07 17:58	SW846 8270C	7065633
2,4-Dichlorophenol	<0.210		mg/kg dry	0.210	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Diethyl phthalate	<0.109		mg/kg dry	0.109	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2,4-Dimethylphenol	<0.134		mg/kg dry	0.134	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Dimethyl phthalate	<0.139		mg/kg dry	0.139	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4,6-Dinitro-2-methylphenol	<0.230		mg/kg dry	0.230	0.978	1	07/06/07 17:58	SW846 8270C	7065633
2,4-Dinitrophenol	<0.311		mg/kg dry	0.311	0.978	1	07/06/07 17:58	SW846 8270C	7065633
2,6-Dinitrotoluene	<0.143		mg/kg dry	0.143	0.391	1	07/06/07 17:58	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-28 (SS-17 (0-2') - Soil) - cont. Sampled: 06/26/07 15:30									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.169		mg/kg dry	0.169	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Di-n-octyl phthalate	<0.155		mg/kg dry	0.155	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<0.190		mg/kg dry	0.190	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Fluoranthene	<0.0493		mg/kg dry	0.0493	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Fluorene	<0.0505		mg/kg dry	0.0505	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Hexachlorobenzene	<0.160		mg/kg dry	0.160	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Hexachlorobutadiene	<0.137		mg/kg dry	0.137	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Hexachlorocyclopentadiene	<0.148		mg/kg dry	0.148	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Hexachloroethane	<0.121		mg/kg dry	0.121	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.0399		mg/kg dry	0.0399	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Isophorone	<0.156		mg/kg dry	0.156	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2-Methylnaphthalene	<0.0423		mg/kg dry	0.0423	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2-Methylphenol	<0.136		mg/kg dry	0.136	0.391	1	07/06/07 17:58	SW846 8270C	7065633
3/4-Methylphenol	<0.148		mg/kg dry	0.148	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Naphthalene	<0.0470		mg/kg dry	0.0470	0.391	1	07/06/07 17:58	SW846 8270C	7065633
3-Nitroaniline	<0.129		mg/kg dry	0.129	0.978	1	07/06/07 17:58	SW846 8270C	7065633
2-Nitroaniline	<0.132		mg/kg dry	0.132	0.978	1	07/06/07 17:58	SW846 8270C	7065633
4-Nitroaniline	<0.136		mg/kg dry	0.136	0.978	1	07/06/07 17:58	SW846 8270C	7065633
Nitrobenzene	<0.132		mg/kg dry	0.132	0.391	1	07/06/07 17:58	SW846 8270C	7065633
4-Nitrophenol	<0.140		mg/kg dry	0.140	0.978	1	07/06/07 17:58	SW846 8270C	7065633
2-Nitrophenol	<0.233		mg/kg dry	0.233	0.391	1	07/06/07 17:58	SW846 8270C	7065633
N-Nitrosodiphenylamine	<0.217		mg/kg dry	0.217	0.391	1	07/06/07 17:58	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<0.133		mg/kg dry	0.133	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Pentachlorophenol	<0.177		mg/kg dry	0.177	0.978	1	07/06/07 17:58	SW846 8270C	7065633
Phenanthrene	<0.0470		mg/kg dry	0.0470	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Phenol	<0.136		mg/kg dry	0.136	0.391	1	07/06/07 17:58	SW846 8270C	7065633
Pyrene	<0.0552		mg/kg dry	0.0552	0.391	1	07/06/07 17:58	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<0.116		mg/kg dry	0.116	0.391	1	07/06/07 17:58	SW846 8270C	7065633
1-Methylnaphthalene	<0.0423		mg/kg dry	0.0423	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2,4,6-Trichlorophenol	<0.113		mg/kg dry	0.113	0.391	1	07/06/07 17:58	SW846 8270C	7065633
2,4,5-Trichlorophenol	<0.133		mg/kg dry	0.133	0.978	1	07/06/07 17:58	SW846 8270C	7065633
Surr: Terphenyl-d14 (49-123%)	*60 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*66 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*74 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*50 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*60 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*50 %*					*1*	*07/06/07 17:58*	*SW846 8270C*	*7065633*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-29 (SUB-11 (4-6) - Soil) Sampled: 06/26/07 15:35									
General Chemistry Parameters									
% Dry Solids	**82.9**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**7.81**		mg/kg dry	1.01	1.17	1	07/02/07 14:46	SW846 6010B	7070096
Barium	**70.1**		mg/kg dry	0.351	2.34	1	07/02/07 14:46	SW846 6010B	7070096
Cadmium	<0.234		mg/kg dry	0.234	1.17	1	07/02/07 14:46	SW846 6010B	7070096
Chromium	**24.2**		mg/kg dry	0.351	1.17	1	07/02/07 14:46	SW846 6010B	7070096
Lead	**16.0**		mg/kg dry	1.05	1.17	1	07/02/07 14:46	SW846 6010B	7070096
Selenium	<1.75		mg/kg dry	1.75	2.34	1	07/02/07 14:46	SW846 6010B	7070096
Silver	<0.584		mg/kg dry	0.584	1.17	1	07/02/07 14:46	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.0347		mg/kg dry	0.0347	0.116	1	07/05/07 11:30	SW846 7471A	7070078
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000598		mg/kg dry	0.000598	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
delta-BHC	<0.000717		mg/kg dry	0.000717	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
alpha-BHC	<0.000478		mg/kg dry	0.000478	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
beta-BHC	<0.00179		mg/kg dry	0.00179	0.00394	1	07/07/07 02:17	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000956		mg/kg dry	0.000956	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
alpha-Chlordane	<0.00191		mg/kg dry	0.00191	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
gamma-Chlordane	<0.000837		mg/kg dry	0.000837	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Chlordane	<0.0143		mg/kg dry	0.0143	0.0797	1	07/07/07 02:17	SW846 8081A	7065631
4,4'-DDD	<0.000717		mg/kg dry	0.000717	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
4,4'-DDE	<0.000837		mg/kg dry	0.000837	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
4,4'-DDT	<0.000837		mg/kg dry	0.000837	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Dieldrin	<0.000598		mg/kg dry	0.000598	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endosulfan I	<0.000956		mg/kg dry	0.000956	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endosulfan II	<0.00120		mg/kg dry	0.00120	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endosulfan sulfate	<0.000717		mg/kg dry	0.000717	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endrin	<0.000956		mg/kg dry	0.000956	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endrin aldehyde	<0.000717		mg/kg dry	0.000717	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Endrin ketone	<0.00179		mg/kg dry	0.00179	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Heptachlor	<0.000956		mg/kg dry	0.000956	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Heptachlor epoxide	<0.00179		mg/kg dry	0.00179	0.00203	1	07/07/07 02:17	SW846 8081A	7065631
Methoxychlor	<0.00120		mg/kg dry	0.00120	0.00394	1	07/07/07 02:17	SW846 8081A	7065631
Toxaphene	<0.0347		mg/kg dry	0.0347	0.0797	1	07/07/07 02:17	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*112 %*					*1*	*07/07/07 02:17*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*98 %*					*1*	*07/07/07 02:17*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0145		mg/kg dry	0.0145	0.0805	1	07/07/07 04:59	SW846 8151A	7065630
2,4,5-T	<0.0121		mg/kg dry	0.0121	0.0398	1	07/07/07 04:59	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0133		mg/kg dry	0.0133	0.0205	1	07/07/07 04:59	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*65 %*					*1*	*07/07/07 04:59*	*SW846 8151A*	*7065630*
Volatile Organic Compounds by EPA Method 8260B									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-29 (SUB-11 (4-6) - Soil) - cont. Sampled: 06/26/07 15:35									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Acetone	**0.0317**	J	mg/kg dry	0.0241	0.0603	1	07/06/07 02:49	SW846 8260B	7065514
Benzene	<0.000724		mg/kg dry	0.000724	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Bromobenzene	<0.00123		mg/kg dry	0.00123	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Bromochloromethane	<0.000784		mg/kg dry	0.000784	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Bromodichloromethane	<0.000772		mg/kg dry	0.000772	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Bromoform	<0.000651		mg/kg dry	0.000651	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Bromomethane	<0.00125		mg/kg dry	0.00125	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
2-Butanone	<0.00755		mg/kg dry	0.00755	0.0603	1	07/06/07 02:49	SW846 8260B	7065514
sec-Butylbenzene	<0.000663		mg/kg dry	0.000663	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
n-Butylbenzene	<0.000651		mg/kg dry	0.000651	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
tert-Butylbenzene	<0.000772		mg/kg dry	0.000772	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Carbon disulfide	<0.000639		mg/kg dry	0.000639	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
Carbon Tetrachloride	<0.000869		mg/kg dry	0.000869	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Chlorobenzene	<0.000676		mg/kg dry	0.000676	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Chlorodibromomethane	<0.000977		mg/kg dry	0.000977	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Chloroethane	<0.00127		mg/kg dry	0.00127	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
Chloroform	<0.00109		mg/kg dry	0.00109	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Chloromethane	<0.000869		mg/kg dry	0.000869	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
2-Chlorotoluene	<0.000663		mg/kg dry	0.000663	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
4-Chlorotoluene	<0.000603		mg/kg dry	0.000603	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2-Dibromo-3-chloropropane	<0.00179		mg/kg dry	0.00179	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
1,2-Dibromoethane (EDB)	<0.000736		mg/kg dry	0.000736	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Dibromomethane	<0.000688		mg/kg dry	0.000688	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,4-Dichlorobenzene	<0.000627		mg/kg dry	0.000627	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,3-Dichlorobenzene	<0.000724		mg/kg dry	0.000724	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2-Dichlorobenzene	<0.000591		mg/kg dry	0.000591	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Dichlorodifluoromethane	<0.000748		mg/kg dry	0.000748	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1-Dichloroethane	<0.000844		mg/kg dry	0.000844	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2-Dichloroethane	<0.000651		mg/kg dry	0.000651	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
cis-1,2-Dichloroethene	<0.00100		mg/kg dry	0.00100	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1-Dichloroethene	<0.000603		mg/kg dry	0.000603	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
trans-1,2-Dichloroethene	<0.000627		mg/kg dry	0.000627	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,3-Dichloropropane	<0.000639		mg/kg dry	0.000639	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2-Dichloropropane	<0.000603		mg/kg dry	0.000603	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
2,2-Dichloropropane	<0.000893		mg/kg dry	0.000893	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
cis-1,3-Dichloropropene	<0.000700		mg/kg dry	0.000700	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
trans-1,3-Dichloropropene	<0.000796		mg/kg dry	0.000796	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1-Dichloropropene	<0.000784		mg/kg dry	0.000784	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Ethylbenzene	<0.000760		mg/kg dry	0.000760	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Hexachlorobutadiene	<0.000772		mg/kg dry	0.000772	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
2-Hexanone	<0.00478		mg/kg dry	0.00478	0.0603	1	07/06/07 02:49	SW846 8260B	7065514
Isopropylbenzene	<0.000663		mg/kg dry	0.000663	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
p-Isopropyltoluene	<0.000820		mg/kg dry	0.000820	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Methyl tert-Butyl Ether	<0.000639		mg/kg dry	0.000639	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Methylene Chloride	<0.00287		mg/kg dry	0.00287	0.0121	1	07/06/07 02:49	SW846 8260B	7065514

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-29 (SUB-11 (4-6) - Soil) - cont. Sampled: 06/26/07 15:35									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	<0.00478		mg/kg dry	0.00478	0.0603	1	07/06/07 02:49	SW846 8260B	7065514
Naphthalene	<0.000977		mg/kg dry	0.000977	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
n-Propylbenzene	<0.000808		mg/kg dry	0.000808	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Styrene	<0.000663		mg/kg dry	0.000663	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1,1,2-Tetrachloroethane	<0.000869		mg/kg dry	0.000869	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1,2,2-Tetrachloroethane	<0.000688		mg/kg dry	0.000688	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Tetrachloroethene	<0.000905		mg/kg dry	0.000905	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Toluene	<0.000796		mg/kg dry	0.000796	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2,3-Trichlorobenzene	<0.00100		mg/kg dry	0.00100	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2,4-Trichlorobenzene	<0.000784		mg/kg dry	0.000784	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,1,2-Trichloroethane	<0.000965		mg/kg dry	0.000965	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
1,1,1-Trichloroethane	<0.000869		mg/kg dry	0.000869	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Trichloroethene	<0.000724		mg/kg dry	0.000724	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Trichlorofluoromethane	<0.00105		mg/kg dry	0.00105	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2,3-Trichloropropane	<0.00110		mg/kg dry	0.00110	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,3,5-Trimethylbenzene	<0.000615		mg/kg dry	0.000615	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
1,2,4-Trimethylbenzene	<0.000712		mg/kg dry	0.000712	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Vinyl chloride	<0.000905		mg/kg dry	0.000905	0.00241	1	07/06/07 02:49	SW846 8260B	7065514
Xylenes, total	<0.00157		mg/kg dry	0.00157	0.00603	1	07/06/07 02:49	SW846 8260B	7065514
Surr: 1,2-Dichloroethane-d4 (54-145%)	*101 %*					*1*	*07/06/07 02:49*	*SW846 8260B*	*7065514*
Surr: Dibromofluoromethane (67-129%)	*101 %*					*1*	*07/06/07 02:49*	*SW846 8260B*	*7065514*
Surr: Toluene-d8 (66-142%)	*99 %*					*1*	*07/06/07 02:49*	*SW846 8260B*	*7065514*
Surr: 4-Bromofluorobenzene (68-150%)	*99 %*					*1*	*07/06/07 02:49*	*SW846 8260B*	*7065514*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0432		mg/kg dry	0.0432	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Acenaphthylene	<0.0528		mg/kg dry	0.0528	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Anthracene	<0.0480		mg/kg dry	0.0480	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Benzo (a) anthracene	<0.0444		mg/kg dry	0.0444	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Benzo (a) pyrene	<0.0480		mg/kg dry	0.0480	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.0456		mg/kg dry	0.0456	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.0324		mg/kg dry	0.0324	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.0552		mg/kg dry	0.0552	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<0.144		mg/kg dry	0.144	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Butyl benzyl phthalate	<0.157		mg/kg dry	0.157	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Carbazole	<0.158		mg/kg dry	0.158	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4-Chloro-3-methylphenol	<0.144		mg/kg dry	0.144	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4-Chloroaniline	<0.110		mg/kg dry	0.110	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<0.137		mg/kg dry	0.137	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<0.126		mg/kg dry	0.126	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<0.173		mg/kg dry	0.173	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2-Chloronaphthalene	<0.109		mg/kg dry	0.109	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2-Chlorophenol	<0.142		mg/kg dry	0.142	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<0.149		mg/kg dry	0.149	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Chrysene	<0.0468		mg/kg dry	0.0468	0.400	1	07/06/07 18:27	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-29 (SUB-11 (4-6) - Soil) - cont. Sampled: 06/26/07 15:35									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Dibenz (a,h) anthracene	<0.0312		mg/kg dry	0.0312	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Dibenzofuran	<0.173		mg/kg dry	0.173	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Di-n-butyl phthalate	<0.157		mg/kg dry	0.157	0.400	1	07/06/07 18:27	SW846 8270C	7065633
1,4-Dichlorobenzene	<0.118		mg/kg dry	0.118	0.400	1	07/06/07 18:27	SW846 8270C	7065633
1,2-Dichlorobenzene	<0.110		mg/kg dry	0.110	0.400	1	07/06/07 18:27	SW846 8270C	7065633
1,3-Dichlorobenzene	<0.127		mg/kg dry	0.127	0.400	1	07/06/07 18:27	SW846 8270C	7065633
3,3-Dichlorobenzidine	<0.220		mg/kg dry	0.220	0.801	1	07/06/07 18:27	SW846 8270C	7065633
2,4-Dichlorophenol	<0.215		mg/kg dry	0.215	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Diethyl phthalate	<0.112		mg/kg dry	0.112	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2,4-Dimethylphenol	<0.137		mg/kg dry	0.137	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Dimethyl phthalate	<0.142		mg/kg dry	0.142	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4,6-Dinitro-2-methylphenol	<0.235		mg/kg dry	0.235	1.00	1	07/06/07 18:27	SW846 8270C	7065633
2,4-Dinitrophenol	<0.318		mg/kg dry	0.318	1.00	1	07/06/07 18:27	SW846 8270C	7065633
2,6-Dinitrotoluene	<0.146		mg/kg dry	0.146	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2,4-Dinitrotoluene	<0.173		mg/kg dry	0.173	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Di-n-octyl phthalate	<0.158		mg/kg dry	0.158	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<0.195		mg/kg dry	0.195	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Fluoranthene	<0.0504		mg/kg dry	0.0504	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Fluorene	<0.0516		mg/kg dry	0.0516	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Hexachlorobenzene	<0.163		mg/kg dry	0.163	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Hexachlorobutadiene	<0.140		mg/kg dry	0.140	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Hexachlorocyclopentadiene	<0.151		mg/kg dry	0.151	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Hexachloroethane	<0.124		mg/kg dry	0.124	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.0408		mg/kg dry	0.0408	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Isophorone	<0.160		mg/kg dry	0.160	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2-Methylnaphthalene	<0.0432		mg/kg dry	0.0432	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2-Methylphenol	<0.139		mg/kg dry	0.139	0.400	1	07/06/07 18:27	SW846 8270C	7065633
3/4-Methylphenol	<0.151		mg/kg dry	0.151	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Naphthalene	<0.0480		mg/kg dry	0.0480	0.400	1	07/06/07 18:27	SW846 8270C	7065633
3-Nitroaniline	<0.132		mg/kg dry	0.132	1.00	1	07/06/07 18:27	SW846 8270C	7065633
2-Nitroaniline	<0.134		mg/kg dry	0.134	1.00	1	07/06/07 18:27	SW846 8270C	7065633
4-Nitroaniline	<0.139		mg/kg dry	0.139	1.00	1	07/06/07 18:27	SW846 8270C	7065633
Nitrobenzene	<0.134		mg/kg dry	0.134	0.400	1	07/06/07 18:27	SW846 8270C	7065633
4-Nitrophenol	<0.143		mg/kg dry	0.143	1.00	1	07/06/07 18:27	SW846 8270C	7065633
2-Nitrophenol	<0.238		mg/kg dry	0.238	0.400	1	07/06/07 18:27	SW846 8270C	7065633
N-Nitrosodiphenylamine	<0.222		mg/kg dry	0.222	0.400	1	07/06/07 18:27	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<0.136		mg/kg dry	0.136	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Pentachlorophenol	<0.181		mg/kg dry	0.181	1.00	1	07/06/07 18:27	SW846 8270C	7065633
Phenanthrene	<0.0480		mg/kg dry	0.0480	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Phenol	<0.139		mg/kg dry	0.139	0.400	1	07/06/07 18:27	SW846 8270C	7065633
Pyrene	<0.0564		mg/kg dry	0.0564	0.400	1	07/06/07 18:27	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<0.119		mg/kg dry	0.119	0.400	1	07/06/07 18:27	SW846 8270C	7065633
1-Methylnaphthalene	<0.0432		mg/kg dry	0.0432	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2,4,6-Trichlorophenol	<0.115		mg/kg dry	0.115	0.400	1	07/06/07 18:27	SW846 8270C	7065633
2,4,5-Trichlorophenol	<0.136		mg/kg dry	0.136	1.00	1	07/06/07 18:27	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-29 (SUB-11 (4-6) - Soil) - cont. Sampled: 06/26/07 15:35									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
Surr: Terphenyl-d14 (49-123%)	*54 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*52 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*61 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*41 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*47 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*42 %*					*1*	*07/06/07 18:27*	*SW846 8270C*	*7065633*
Sample ID: NQF3703-30 (FD-2 - Soil) Sampled: 06/26/07									
General Chemistry Parameters									
% Dry Solids	**83.7**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**7.35**		mg/kg dry	0.994	1.16	1	07/02/07 15:35	SW846 6010B	7070096
Barium	**103**		mg/kg dry	0.347	2.31	1	07/02/07 15:35	SW846 6010B	7070096
Cadmium	<0.231		mg/kg dry	0.231	1.16	1	07/02/07 15:35	SW846 6010B	7070096
Chromium	**25.3**		mg/kg dry	0.347	1.16	1	07/02/07 15:35	SW846 6010B	7070096
Lead	**15.4**		mg/kg dry	1.04	1.16	1	07/02/07 15:35	SW846 6010B	7070096
Selenium	<1.73		mg/kg dry	1.73	2.31	1	07/02/07 15:35	SW846 6010B	7070096
Silver	<0.578		mg/kg dry	0.578	1.16	1	07/02/07 15:35	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0447**	J	mg/kg dry	0.0344	0.115	1	07/05/07 11:33	SW846 7471A	7070078
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.000582		mg/kg dry	0.000582	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
delta-BHC	<0.000698		mg/kg dry	0.000698	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
alpha-BHC	<0.000466		mg/kg dry	0.000466	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
beta-BHC	<0.00175		mg/kg dry	0.00175	0.00384	1	07/07/07 02:46	SW846 8081A	7065631
gamma-BHC (Lindane)	<0.000931		mg/kg dry	0.000931	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
alpha-Chlordane	<0.00186		mg/kg dry	0.00186	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
gamma-Chlordane	<0.000815		mg/kg dry	0.000815	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Chlordane	<0.0140		mg/kg dry	0.0140	0.0776	1	07/07/07 02:46	SW846 8081A	7065631
4,4'-DDD	<0.000698		mg/kg dry	0.000698	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
4,4'-DDE	<0.000815		mg/kg dry	0.000815	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
4,4'-DDT	<0.000815		mg/kg dry	0.000815	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Dieldrin	<0.000582		mg/kg dry	0.000582	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endosulfan I	<0.000931		mg/kg dry	0.000931	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endosulfan II	<0.00116		mg/kg dry	0.00116	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endosulfan sulfate	<0.000698		mg/kg dry	0.000698	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endrin	<0.000931		mg/kg dry	0.000931	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endrin aldehyde	<0.000698		mg/kg dry	0.000698	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Endrin ketone	<0.00175		mg/kg dry	0.00175	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Heptachlor	<0.000931		mg/kg dry	0.000931	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Heptachlor epoxide	<0.00175		mg/kg dry	0.00175	0.00198	1	07/07/07 02:46	SW846 8081A	7065631
Methoxychlor	<0.00116		mg/kg dry	0.00116	0.00384	1	07/07/07 02:46	SW846 8081A	7065631

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-30 (FD-2 - Soil) - cont. Sampled: 06/26/07									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Toxaphene	<0.0338		mg/kg dry	0.0338	0.0776	1	07/07/07 02:46	SW846 8081A	7065631
Surr: Tetrachloro-meta-xylene (27-165%)	*120 %*					*1*	*07/07/07 02:46*	*SW846 8081A*	*7065631*
Surr: Decachlorobiphenyl (37-171%)	*170 %*					*1*	*07/07/07 02:46*	*SW846 8081A*	*7065631*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0143		mg/kg dry	0.0143	0.0797	1	07/07/07 05:30	SW846 8151A	7065630
2,4,5-T	<0.0119		mg/kg dry	0.0119	0.0394	1	07/07/07 05:30	SW846 8151A	7065630
2,4,5-TP (Silvex)	<0.0131		mg/kg dry	0.0131	0.0203	1	07/07/07 05:30	SW846 8151A	7065630
Surr: Dichloroacetic Acid (27-162%)	*79 %*					*1*	*07/07/07 05:30*	*SW846 8151A*	*7065630*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	<0.0423		mg/kg dry	0.0423	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Acenaphthylene	<0.0518		mg/kg dry	0.0518	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Anthracene	<0.0471		mg/kg dry	0.0471	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Benzo (a) anthracene	<0.0435		mg/kg dry	0.0435	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Benzo (a) pyrene	<0.0471		mg/kg dry	0.0471	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Benzo (b) fluoranthene	<0.0447		mg/kg dry	0.0447	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Benzo (g,h,i) perylene	<0.0318		mg/kg dry	0.0318	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Benzo (k) fluoranthene	<0.0541		mg/kg dry	0.0541	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4-Bromophenyl phenyl ether	<0.141		mg/kg dry	0.141	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Butyl benzyl phthalate	<0.154		mg/kg dry	0.154	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Carbazole	<0.155		mg/kg dry	0.155	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4-Chloro-3-methylphenol	<0.141		mg/kg dry	0.141	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4-Chloroaniline	<0.108		mg/kg dry	0.108	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Bis(2-chloroethoxy)methane	<0.134		mg/kg dry	0.134	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Bis(2-chloroethyl)ether	<0.124		mg/kg dry	0.124	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Bis(2-chloroisopropyl)ether	<0.169		mg/kg dry	0.169	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2-Chloronaphthalene	<0.107		mg/kg dry	0.107	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2-Chlorophenol	<0.139		mg/kg dry	0.139	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4-Chlorophenyl phenyl ether	<0.146		mg/kg dry	0.146	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Chrysene	<0.0459		mg/kg dry	0.0459	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Dibenz (a,h) anthracene	<0.0306		mg/kg dry	0.0306	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Dibenzofuran	<0.169		mg/kg dry	0.169	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Di-n-butyl phthalate	<0.154		mg/kg dry	0.154	0.392	1	07/06/07 18:56	SW846 8270C	7065633
1,4-Dichlorobenzene	<0.115		mg/kg dry	0.115	0.392	1	07/06/07 18:56	SW846 8270C	7065633
1,2-Dichlorobenzene	<0.108		mg/kg dry	0.108	0.392	1	07/06/07 18:56	SW846 8270C	7065633
1,3-Dichlorobenzene	<0.125		mg/kg dry	0.125	0.392	1	07/06/07 18:56	SW846 8270C	7065633
3,3-Dichlorobenzidine	<0.215		mg/kg dry	0.215	0.785	1	07/06/07 18:56	SW846 8270C	7065633
2,4-Dichlorophenol	<0.211		mg/kg dry	0.211	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Diethyl phthalate	<0.109		mg/kg dry	0.109	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2,4-Dimethylphenol	<0.134		mg/kg dry	0.134	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Dimethyl phthalate	<0.139		mg/kg dry	0.139	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4,6-Dinitro-2-methylphenol	<0.231		mg/kg dry	0.231	0.980	1	07/06/07 18:56	SW846 8270C	7065633
2,4-Dinitrophenol	<0.312		mg/kg dry	0.312	0.980	1	07/06/07 18:56	SW846 8270C	7065633
2,6-Dinitrotoluene	<0.144		mg/kg dry	0.144	0.392	1	07/06/07 18:56	SW846 8270C	7065633

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-30 (FD-2 - Soil) - cont. Sampled: 06/26/07									
Semivolatile Organic Compounds by EPA Method 8270C - cont.									
2,4-Dinitrotoluene	<0.169		mg/kg dry	0.169	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Di-n-octyl phthalate	<0.155		mg/kg dry	0.155	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Bis(2-ethylhexyl)phthalate	<0.191		mg/kg dry	0.191	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Fluoranthene	<0.0494		mg/kg dry	0.0494	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Fluorene	<0.0506		mg/kg dry	0.0506	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Hexachlorobenzene	<0.160		mg/kg dry	0.160	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Hexachlorobutadiene	<0.138		mg/kg dry	0.138	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Hexachlorocyclopentadiene	<0.148		mg/kg dry	0.148	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Hexachloroethane	<0.121		mg/kg dry	0.121	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Indeno (1,2,3-cd) pyrene	<0.0400		mg/kg dry	0.0400	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Isophorone	<0.156		mg/kg dry	0.156	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2-Methylnaphthalene	<0.0423		mg/kg dry	0.0423	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2-Methylphenol	<0.136		mg/kg dry	0.136	0.392	1	07/06/07 18:56	SW846 8270C	7065633
3/4-Methylphenol	<0.148		mg/kg dry	0.148	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Naphthalene	<0.0471		mg/kg dry	0.0471	0.392	1	07/06/07 18:56	SW846 8270C	7065633
3-Nitroaniline	<0.129		mg/kg dry	0.129	0.980	1	07/06/07 18:56	SW846 8270C	7065633
2-Nitroaniline	<0.132		mg/kg dry	0.132	0.980	1	07/06/07 18:56	SW846 8270C	7065633
4-Nitroaniline	<0.136		mg/kg dry	0.136	0.980	1	07/06/07 18:56	SW846 8270C	7065633
Nitrobenzene	<0.132		mg/kg dry	0.132	0.392	1	07/06/07 18:56	SW846 8270C	7065633
4-Nitrophenol	<0.140		mg/kg dry	0.140	0.980	1	07/06/07 18:56	SW846 8270C	7065633
2-Nitrophenol	<0.233		mg/kg dry	0.233	0.392	1	07/06/07 18:56	SW846 8270C	7065633
N-Nitrosodiphenylamine	<0.218		mg/kg dry	0.218	0.392	1	07/06/07 18:56	SW846 8270C	7065633
N-Nitrosodi-n-propylamine	<0.133		mg/kg dry	0.133	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Pentachlorophenol	<0.178		mg/kg dry	0.178	0.980	1	07/06/07 18:56	SW846 8270C	7065633
Phenanthrene	<0.0471		mg/kg dry	0.0471	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Phenol	<0.136		mg/kg dry	0.136	0.392	1	07/06/07 18:56	SW846 8270C	7065633
Pyrene	<0.0553		mg/kg dry	0.0553	0.392	1	07/06/07 18:56	SW846 8270C	7065633
1,2,4-Trichlorobenzene	<0.116		mg/kg dry	0.116	0.392	1	07/06/07 18:56	SW846 8270C	7065633
1-Methylnaphthalene	<0.0423		mg/kg dry	0.0423	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2,4,6-Trichlorophenol	<0.113		mg/kg dry	0.113	0.392	1	07/06/07 18:56	SW846 8270C	7065633
2,4,5-Trichlorophenol	<0.133		mg/kg dry	0.133	0.980	1	07/06/07 18:56	SW846 8270C	7065633
Surr: Terphenyl-d14 (49-123%)	*53 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*
Surr: 2,4,6-Tribromophenol (26-116%)	*55 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*
Surr: Phenol-d5 (24-103%)	*57 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*
Surr: 2-Fluorobiphenyl (30-93%)	*38 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*
Surr: 2-Fluorophenol (27-93%)	*42 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*
Surr: Nitrobenzene-d5 (34-87%)	*37 %*					*1*	*07/06/07 18:56*	*SW846 8270C*	*7065633*

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-31 (SS-18 (0-2') - Soil) Sampled: 06/27/07 08:50									
General Chemistry Parameters									
% Dry Solids	**95.7**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**3.11**		mg/kg dry	0.867	1.01	1	07/02/07 15:40	SW846 6010B	7070096
Barium	**173**		mg/kg dry	0.303	2.02	1	07/02/07 15:40	SW846 6010B	7070096
Cadmium	**3.27**		mg/kg dry	0.202	1.01	1	07/02/07 15:40	SW846 6010B	7070096
Chromium	**97.8**		mg/kg dry	0.303	1.01	1	07/02/07 15:40	SW846 6010B	7070096
Lead	**56.9**		mg/kg dry	0.908	1.01	1	07/02/07 15:40	SW846 6010B	7070096
Selenium	**2.15**		mg/kg dry	1.51	2.02	1	07/02/07 15:40	SW846 6010B	7070096
Silver	<0.504		mg/kg dry	0.504	1.01	1	07/02/07 15:40	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.473**		mg/kg dry	0.0305	0.102	1	07/05/07 11:35	SW846 7471A	7070078
Sample ID: NQF3703-32 (SS-19 (0-2') - Soil) Sampled: 06/27/07 09:10									
General Chemistry Parameters									
% Dry Solids	**93.1**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	**2.98**		mg/kg dry	0.890	1.03	1	07/02/07 15:44	SW846 6010B	7070096
Barium	**141**		mg/kg dry	0.310	2.07	1	07/02/07 15:44	SW846 6010B	7070096
Cadmium	**1.06**		mg/kg dry	0.207	1.03	1	07/02/07 15:44	SW846 6010B	7070096
Chromium	**40.9**		mg/kg dry	0.310	1.03	1	07/02/07 15:44	SW846 6010B	7070096
Lead	**17.2**		mg/kg dry	0.931	1.03	1	07/02/07 15:44	SW846 6010B	7070096
Selenium	<1.55		mg/kg dry	1.55	2.07	1	07/02/07 15:44	SW846 6010B	7070096
Silver	<0.517		mg/kg dry	0.517	1.03	1	07/02/07 15:44	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.0374**	J	mg/kg dry	0.0323	0.108	1	07/05/07 11:37	SW846 7471A	7070078
Sample ID: NQF3703-33 (SS-20 (0-2') - Soil) Sampled: 06/27/07 09:20									
General Chemistry Parameters									
% Dry Solids	**26.8**		%	0.500	0.500	1	07/11/07 08:21	SW-846	7070848
Total Metals by EPA Method 6010B									
Arsenic	<3.13		mg/kg dry	3.13	3.64	1	07/02/07 15:49	SW846 6010B	7070096
Barium	**308**		mg/kg dry	1.09	7.27	1	07/02/07 15:49	SW846 6010B	7070096
Cadmium	**6.98**		mg/kg dry	0.727	3.64	1	07/02/07 15:49	SW846 6010B	7070096
Chromium	**109**		mg/kg dry	1.09	3.64	1	07/02/07 15:49	SW846 6010B	7070096
Lead	**44.6**		mg/kg dry	3.27	3.64	1	07/02/07 15:49	SW846 6010B	7070096
Selenium	**6.10**	J	mg/kg dry	5.46	7.27	1	07/02/07 15:49	SW846 6010B	7070096
Silver	<1.82		mg/kg dry	1.82	3.64	1	07/02/07 15:49	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.267**	J	mg/kg dry	0.111	0.371	1	07/05/07 11:43	SW846 7471A	7070078
Sample ID: NQF3703-34 (SS-21 (0-2') - Soil) Sampled: 06/27/07 09:30									

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-34 (SS-21 (0-2') - Soil) - cont. Sampled: 06/27/07 09:30									
General Chemistry Parameters									
% Dry Solids	**15.7**		%	0.500	0.500	1	07/09/07 18:49	SW-846	7070780
Total Metals by EPA Method 6010B									
Arsenic	<5.23		mg/kg dry	5.23	6.08	1	07/02/07 15:53	SW846 6010B	7070096
Barium	**222**		mg/kg dry	1.82	12.2	1	07/02/07 15:53	SW846 6010B	7070096
Cadmium	**5.71**	J	mg/kg dry	1.22	6.08	1	07/02/07 15:53	SW846 6010B	7070096
Chromium	**59.1**		mg/kg dry	1.82	6.08	1	07/02/07 15:53	SW846 6010B	7070096
Lead	**42.0**		mg/kg dry	5.47	6.08	1	07/02/07 15:53	SW846 6010B	7070096
Selenium	**9.31**	J	mg/kg dry	9.12	12.2	1	07/02/07 15:53	SW846 6010B	7070096
Silver	<3.04		mg/kg dry	3.04	6.08	1	07/02/07 15:53	SW846 6010B	7070096
Mercury by EPA Methods 7470A/7471A									
Mercury	**0.510**	J	mg/kg dry	0.193	0.642	1	07/05/07 11:46	SW846 7471A	7070078
Sample ID: NQF3703-35 (SS-5 (0-2') RB - Water) Sampled: 06/25/07 15:30									
Total Metals by EPA Method 6010B									
Arsenic	<0.00500		mg/L	0.00500	0.0100	1	07/03/07 15:07	SW846 6010B	7070052
Barium	<0.00220		mg/L	0.00220	0.0100	1	07/03/07 15:07	SW846 6010B	7070052
Cadmium	<0.000500		mg/L	0.000500	0.00100	1	07/03/07 15:07	SW846 6010B	7070052
Chromium	<0.00250		mg/L	0.00250	0.00500	1	07/03/07 15:07	SW846 6010B	7070052
Lead	<0.00300		mg/L	0.00300	0.00500	1	07/03/07 15:07	SW846 6010B	7070052
Selenium	<0.00500		mg/L	0.00500	0.0100	1	07/03/07 15:07	SW846 6010B	7070052
Silver	<0.00260		mg/L	0.00260	0.00500	1	07/03/07 15:07	SW846 6010B	7070052
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.000100		mg/L	0.000100	0.000200	1	07/05/07 08:31	SW846 7470A	7070081
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
delta-BHC	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
alpha-BHC	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
beta-BHC	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
gamma-BHC (Lindane)	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
alpha-Chlordane	<0.0400		ug/L	0.0400	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
gamma-Chlordane	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Chlordane	<0.300		ug/L	0.300	3.00	1	07/05/07 23:08	SW846 8081A	7070124
4,4'-DDD	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
4,4'-DDE	<0.0200		ug/L	0.0200	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
4,4'-DDT	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Dieldrin	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endosulfan I	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endosulfan II	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endosulfan sulfate	<0.0400		ug/L	0.0400	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endrin	<0.0400		ug/L	0.0400	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endrin aldehyde	<0.0400		ug/L	0.0400	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Endrin ketone	<0.0400		ug/L	0.0400	0.0500	1	07/05/07 23:08	SW846 8081A	7070124

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-35 (SS-5 (0-2') RB - Water) - cont. Sampled: 06/25/07 15:30									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Heptachlor	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Heptachlor epoxide	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Methoxychlor	<0.0300		ug/L	0.0300	0.0500	1	07/05/07 23:08	SW846 8081A	7070124
Toxaphene	<1.70		ug/L	1.70	5.00	1	07/05/07 23:08	SW846 8081A	7070124
Surr: Tetrachloro-meta-xylene (46-127%)	*115 %*					*1*	*07/05/07 23:08*	*SW846 8081A*	*7070124*
Surr: Decachlorobiphenyl (25-144%)	*62 %*					*1*	*07/05/07 23:08*	*SW846 8081A*	*7070124*
Chlorinated Herbicides by EPA Method 8151A									
2,4-D	<0.0286		ug/L	0.0286	0.0952	1	07/06/07 15:31	SW846 8151A	7065628
2,4,5-T	<0.0286		ug/L	0.0286	0.0952	1	07/06/07 15:31	SW846 8151A	7065628
2,4,5-TP (Silvex)	<0.0286		ug/L	0.0286	0.0952	1	07/06/07 15:31	SW846 8151A	7065628
Surr: Dichloroacetic Acid (32-155%)	*73 %*					*1*	*07/06/07 15:31*	*SW846 8151A*	*7065628*
Sample ID: NQF3703-36 (HA-RB - Water) Sampled: 06/27/07 09:45									
Total Metals by EPA Method 6010B									
Arsenic	<0.00500		mg/L	0.00500	0.0100	1	07/03/07 15:41	SW846 6010B	7070052
Barium	<0.00220		mg/L	0.00220	0.0100	1	07/03/07 15:41	SW846 6010B	7070052
Cadmium	<0.000500		mg/L	0.000500	0.00100	1	07/03/07 15:41	SW846 6010B	7070052
Chromium	<0.00250		mg/L	0.00250	0.00500	1	07/03/07 15:41	SW846 6010B	7070052
Lead	<0.00300		mg/L	0.00300	0.00500	1	07/03/07 15:41	SW846 6010B	7070052
Selenium	<0.00500		mg/L	0.00500	0.0100	1	07/03/07 15:41	SW846 6010B	7070052
Silver	<0.00260		mg/L	0.00260	0.00500	1	07/03/07 15:41	SW846 6010B	7070052
Mercury by EPA Methods 7470A/7471A									
Mercury	<0.000100		mg/L	0.000100	0.000200	1	07/05/07 08:38	SW846 7470A	7070081
Sample ID: NQF3703-37 (GPGW-1 - Water) Sampled: 06/27/07 10:30									
Dissolved Metals by EPA Method 6010B									
Arsenic	**0.00870**	J	mg/L	0.00500	0.0100	1	07/02/07 17:46	SW846 6010B	7070058
Barium	**1.36**		mg/L	0.00220	0.0100	1	07/02/07 17:46	SW846 6010B	7070058
Cadmium	<0.000500		mg/L	0.000500	0.00100	1	07/02/07 17:46	SW846 6010B	7070058
Chromium	<0.00250		mg/L	0.00250	0.00500	1	07/02/07 17:46	SW846 6010B	7070058
Lead	<0.00300		mg/L	0.00300	0.00500	1	07/02/07 17:46	SW846 6010B	7070058
Selenium	<0.00500		mg/L	0.00500	0.0100	1	07/02/07 17:46	SW846 6010B	7070058
Silver	<0.00260		mg/L	0.00260	0.00500	1	07/02/07 17:46	SW846 6010B	7070058
Dissolved Mercury by EPA Methods 7470A/7471A									
Mercury	<0.000100		mg/L	0.000100	0.000200	1	07/05/07 11:26	SW846 7470A	7070083
Volatile Organic Compounds by EPA Method 8260B									
Acetone	<7.41		ug/L	7.41	50.0	1	07/07/07 17:21	SW846 8260B	7071029
Benzene	<0.330		ug/L	0.330	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Bromobenzene	<0.450		ug/L	0.450	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Bromochloromethane	<0.700		ug/L	0.700	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Bromodichloromethane	<0.390		ug/L	0.390	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Bromoform	<0.540		ug/L	0.540	1.00	1	07/07/07 17:21	SW846 8260B	7071029

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-37 (GPGW-1 - Water) - cont. Sampled: 06/27/07 10:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Bromomethane	<0.420		ug/L	0.420	1.00	1	07/07/07 17:21	SW846 8260B	7071029
2-Butanone	<3.06		ug/L	3.06	50.0	1	07/07/07 17:21	SW846 8260B	7071029
sec-Butylbenzene	<0.260		ug/L	0.260	1.00	1	07/07/07 17:21	SW846 8260B	7071029
n-Butylbenzene	<0.780		ug/L	0.780	1.00	1	07/07/07 17:21	SW846 8260B	7071029
tert-Butylbenzene	<0.400		ug/L	0.400	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Carbon disulfide	<0.230		ug/L	0.230	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Carbon Tetrachloride	<0.410		ug/L	0.410	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Chlorobenzene	<0.340		ug/L	0.340	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Chlorodibromomethane	<0.480		ug/L	0.480	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Chloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Chloroform	<0.510		ug/L	0.510	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Chloromethane	<0.310		ug/L	0.310	1.00	1	07/07/07 17:21	SW846 8260B	7071029
2-Chlorotoluene	<0.210		ug/L	0.210	1.00	1	07/07/07 17:21	SW846 8260B	7071029
4-Chlorotoluene	<0.410		ug/L	0.410	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2-Dibromo-3-chloropropane	<1.01		ug/L	1.01	5.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2-Dibromoethane (EDB)	<0.320		ug/L	0.320	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Dibromomethane	<0.430		ug/L	0.430	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,4-Dichlorobenzene	<0.360		ug/L	0.360	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,3-Dichlorobenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2-Dichlorobenzene	<0.440		ug/L	0.440	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Dichlorodifluoromethane	<0.290		ug/L	0.290	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1-Dichloroethane	<0.600		ug/L	0.600	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2-Dichloroethane	<0.460		ug/L	0.460	1.00	1	07/07/07 17:21	SW846 8260B	7071029
cis-1,2-Dichloroethene	<0.540		ug/L	0.540	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1-Dichloroethene	<0.270		ug/L	0.270	1.00	1	07/07/07 17:21	SW846 8260B	7071029
trans-1,2-Dichloroethene	<0.200		ug/L	0.200	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,3-Dichloropropane	<0.480		ug/L	0.480	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 17:21	SW846 8260B	7071029
2,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 17:21	SW846 8260B	7071029
cis-1,3-Dichloropropene	<0.330		ug/L	0.330	1.00	1	07/07/07 17:21	SW846 8260B	7071029
trans-1,3-Dichloropropene	<0.310		ug/L	0.310	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1-Dichloropropene	<0.280		ug/L	0.280	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Ethylbenzene	<0.420		ug/L	0.420	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Hexachlorobutadiene	<0.660		ug/L	0.660	1.00	1	07/07/07 17:21	SW846 8260B	7071029
2-Hexanone	<2.19		ug/L	2.19	50.0	1	07/07/07 17:21	SW846 8260B	7071029
Isopropylbenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 17:21	SW846 8260B	7071029
p-Isopropyltoluene	<0.320		ug/L	0.320	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Methyl tert-Butyl Ether	<0.310		ug/L	0.310	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Methylene Chloride	<2.10		ug/L	2.10	5.00	1	07/07/07 17:21	SW846 8260B	7071029
4-Methyl-2-pentanone	<4.15		ug/L	4.15	10.0	1	07/07/07 17:21	SW846 8260B	7071029
Naphthalene	<0.650		ug/L	0.650	5.00	1	07/07/07 17:21	SW846 8260B	7071029
n-Propylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Styrene	<0.390		ug/L	0.390	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1,1,2-Tetrachloroethane	<0.470		ug/L	0.470	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1,2,2-Tetrachloroethane	<0.270		ug/L	0.270	1.00	1	07/07/07 17:21	SW846 8260B	7071029

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-37 (GPGW-1 - Water) - cont. Sampled: 06/27/07 10:30									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Tetrachloroethene	<0.320		ug/L	0.320	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Toluene	<0.420		ug/L	0.420	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2,3-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2,4-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1,2-Trichloroethane	<0.570		ug/L	0.570	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,1,1-Trichloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Trichloroethene	<0.510		ug/L	0.510	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Trichlorofluoromethane	<0.400		ug/L	0.400	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2,3-Trichloropropane	<0.520		ug/L	0.520	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,3,5-Trimethylbenzene	<0.240		ug/L	0.240	1.00	1	07/07/07 17:21	SW846 8260B	7071029
1,2,4-Trimethylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Vinyl chloride	<0.260		ug/L	0.260	1.00	1	07/07/07 17:21	SW846 8260B	7071029
Xylenes, total	<0.450		ug/L	0.450	3.00	1	07/07/07 17:21	SW846 8260B	7071029
Surr: 1,2-Dichloroethane-d4 (62-142%)	*109 %*					*1*	*07/07/07 17:21*	*SW846 8260B*	*7071029*
Surr: Dibromofluoromethane (78-123%)	*102 %*					*1*	*07/07/07 17:21*	*SW846 8260B*	*7071029*
Surr: Toluene-d8 (79-120%)	*106 %*					*1*	*07/07/07 17:21*	*SW846 8260B*	*7071029*
Surr: 4-Bromofluorobenzene (75-133%)	*98 %*					*1*	*07/07/07 17:21*	*SW846 8260B*	*7071029*
Sample ID: NQF3703-38 (Trip Blank 2 - Water) Sampled: 06/27/07									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	<7.41		ug/L	7.41	50.0	1	07/07/07 15:24	SW846 8260B	7071029
Benzene	<0.330		ug/L	0.330	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Bromobenzene	<0.450		ug/L	0.450	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Bromochloromethane	<0.700		ug/L	0.700	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Bromodichloromethane	<0.390		ug/L	0.390	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Bromoform	<0.540		ug/L	0.540	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Bromomethane	<0.420		ug/L	0.420	1.00	1	07/07/07 15:24	SW846 8260B	7071029
2-Butanone	<3.06		ug/L	3.06	50.0	1	07/07/07 15:24	SW846 8260B	7071029
sec-Butylbenzene	<0.260		ug/L	0.260	1.00	1	07/07/07 15:24	SW846 8260B	7071029
n-Butylbenzene	<0.780		ug/L	0.780	1.00	1	07/07/07 15:24	SW846 8260B	7071029
tert-Butylbenzene	<0.400		ug/L	0.400	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Carbon disulfide	<0.230		ug/L	0.230	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Carbon Tetrachloride	<0.410		ug/L	0.410	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Chlorobenzene	<0.340		ug/L	0.340	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Chlorodibromomethane	<0.480		ug/L	0.480	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Chloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Chloroform	<0.510		ug/L	0.510	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Chloromethane	<0.310		ug/L	0.310	1.00	1	07/07/07 15:24	SW846 8260B	7071029
2-Chlorotoluene	<0.210		ug/L	0.210	1.00	1	07/07/07 15:24	SW846 8260B	7071029
4-Chlorotoluene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2-Dibromo-3-chloropropane	<1.01		ug/L	1.01	5.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2-Dibromoethane (EDB)	<0.320		ug/L	0.320	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Dibromomethane	<0.430		ug/L	0.430	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,4-Dichlorobenzene	<0.360		ug/L	0.360	1.00	1	07/07/07 15:24	SW846 8260B	7071029

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-38 (Trip Blank 2 - Water) - cont. Sampled: 06/27/07									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,3-Dichlorobenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2-Dichlorobenzene	<0.440		ug/L	0.440	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Dichlorodifluoromethane	<0.290		ug/L	0.290	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1-Dichloroethane	<0.600		ug/L	0.600	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2-Dichloroethane	<0.460		ug/L	0.460	1.00	1	07/07/07 15:24	SW846 8260B	7071029
cis-1,2-Dichloroethene	<0.540		ug/L	0.540	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1-Dichloroethene	<0.270		ug/L	0.270	1.00	1	07/07/07 15:24	SW846 8260B	7071029
trans-1,2-Dichloroethene	<0.200		ug/L	0.200	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,3-Dichloropropane	<0.480		ug/L	0.480	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 15:24	SW846 8260B	7071029
2,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 15:24	SW846 8260B	7071029
cis-1,3-Dichloropropene	<0.330		ug/L	0.330	1.00	1	07/07/07 15:24	SW846 8260B	7071029
trans-1,3-Dichloropropene	<0.310		ug/L	0.310	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1-Dichloropropene	<0.280		ug/L	0.280	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Ethylbenzene	<0.420		ug/L	0.420	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Hexachlorobutadiene	<0.660		ug/L	0.660	1.00	1	07/07/07 15:24	SW846 8260B	7071029
2-Hexanone	<2.19		ug/L	2.19	50.0	1	07/07/07 15:24	SW846 8260B	7071029
Isopropylbenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:24	SW846 8260B	7071029
p-Isopropyltoluene	<0.320		ug/L	0.320	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Methyl tert-Butyl Ether	<0.310		ug/L	0.310	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Methylene Chloride	<2.10		ug/L	2.10	5.00	1	07/07/07 15:24	SW846 8260B	7071029
4-Methyl-2-pentanone	<4.15		ug/L	4.15	10.0	1	07/07/07 15:24	SW846 8260B	7071029
Naphthalene	<0.650		ug/L	0.650	5.00	1	07/07/07 15:24	SW846 8260B	7071029
n-Propylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Styrene	<0.390		ug/L	0.390	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1,1,2-Tetrachloroethane	<0.470		ug/L	0.470	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1,2,2-Tetrachloroethane	<0.270		ug/L	0.270	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Tetrachloroethene	<0.320		ug/L	0.320	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Toluene	<0.420		ug/L	0.420	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2,3-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2,4-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1,2-Trichloroethane	<0.570		ug/L	0.570	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,1,1-Trichloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Trichloroethene	<0.510		ug/L	0.510	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Trichlorofluoromethane	<0.400		ug/L	0.400	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2,3-Trichloropropane	<0.520		ug/L	0.520	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,3,5-Trimethylbenzene	<0.240		ug/L	0.240	1.00	1	07/07/07 15:24	SW846 8260B	7071029
1,2,4-Trimethylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Vinyl chloride	<0.260		ug/L	0.260	1.00	1	07/07/07 15:24	SW846 8260B	7071029
Xylenes, total	<0.450		ug/L	0.450	3.00	1	07/07/07 15:24	SW846 8260B	7071029
Surr: 1,2-Dichloroethane-d4 (62-142%)	*108 %*					*1*	*07/07/07 15:24*	*SW846 8260B*	*7071029*
Surr: Dibromofluoromethane (78-123%)	*102 %*					*1*	*07/07/07 15:24*	*SW846 8260B*	*7071029*
Surr: Toluene-d8 (79-120%)	*104 %*					*1*	*07/07/07 15:24*	*SW846 8260B*	*7071029*
Surr: 4-Bromofluorobenzene (75-133%)	*96 %*					*1*	*07/07/07 15:24*	*SW846 8260B*	*7071029*

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-40 (Trip Blank 5 - Water) Sampled: 06/27/07									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	<7.41		ug/L	7.41	50.0	1	07/07/07 15:53	SW846 8260B	7071029
Benzene	<0.330		ug/L	0.330	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Bromobenzene	<0.450		ug/L	0.450	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Bromochloromethane	<0.700		ug/L	0.700	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Bromodichloromethane	<0.390		ug/L	0.390	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Bromoform	<0.540		ug/L	0.540	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Bromomethane	<0.420		ug/L	0.420	1.00	1	07/07/07 15:53	SW846 8260B	7071029
2-Butanone	<3.06		ug/L	3.06	50.0	1	07/07/07 15:53	SW846 8260B	7071029
sec-Butylbenzene	<0.260		ug/L	0.260	1.00	1	07/07/07 15:53	SW846 8260B	7071029
n-Butylbenzene	<0.780		ug/L	0.780	1.00	1	07/07/07 15:53	SW846 8260B	7071029
tert-Butylbenzene	<0.400		ug/L	0.400	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Carbon disulfide	<0.230		ug/L	0.230	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Carbon Tetrachloride	<0.410		ug/L	0.410	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Chlorobenzene	<0.340		ug/L	0.340	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Chlorodibromomethane	<0.480		ug/L	0.480	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Chloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Chloroform	<0.510		ug/L	0.510	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Chloromethane	<0.310		ug/L	0.310	1.00	1	07/07/07 15:53	SW846 8260B	7071029
2-Chlorotoluene	<0.210		ug/L	0.210	1.00	1	07/07/07 15:53	SW846 8260B	7071029
4-Chlorotoluene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2-Dibromo-3-chloropropane	<1.01		ug/L	1.01	5.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2-Dibromoethane (EDB)	<0.320		ug/L	0.320	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Dibromomethane	<0.430		ug/L	0.430	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,4-Dichlorobenzene	<0.360		ug/L	0.360	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,3-Dichlorobenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2-Dichlorobenzene	<0.440		ug/L	0.440	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Dichlorodifluoromethane	<0.290		ug/L	0.290	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1-Dichloroethane	<0.600		ug/L	0.600	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2-Dichloroethane	<0.460		ug/L	0.460	1.00	1	07/07/07 15:53	SW846 8260B	7071029
cis-1,2-Dichloroethene	<0.540		ug/L	0.540	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1-Dichloroethene	<0.270		ug/L	0.270	1.00	1	07/07/07 15:53	SW846 8260B	7071029
trans-1,2-Dichloroethene	<0.200		ug/L	0.200	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,3-Dichloropropane	<0.480		ug/L	0.480	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 15:53	SW846 8260B	7071029
2,2-Dichloropropane	<0.370		ug/L	0.370	1.00	1	07/07/07 15:53	SW846 8260B	7071029
cis-1,3-Dichloropropene	<0.330		ug/L	0.330	1.00	1	07/07/07 15:53	SW846 8260B	7071029
trans-1,3-Dichloropropene	<0.310		ug/L	0.310	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1-Dichloropropene	<0.280		ug/L	0.280	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Ethylbenzene	<0.420		ug/L	0.420	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Hexachlorobutadiene	<0.660		ug/L	0.660	1.00	1	07/07/07 15:53	SW846 8260B	7071029
2-Hexanone	<2.19		ug/L	2.19	50.0	1	07/07/07 15:53	SW846 8260B	7071029
Isopropylbenzene	<0.410		ug/L	0.410	1.00	1	07/07/07 15:53	SW846 8260B	7071029
p-Isopropyltoluene	<0.320		ug/L	0.320	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Methyl tert-Butyl Ether	<0.310		ug/L	0.310	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Methylene Chloride	<2.10		ug/L	2.10	5.00	1	07/07/07 15:53	SW846 8260B	7071029

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NQF3703-40 (Trip Blank 5 - Water) - cont. Sampled: 06/27/07									
Volatile Organic Compounds by EPA Method 8260B - cont.									
4-Methyl-2-pentanone	<4.15		ug/L	4.15	10.0	1	07/07/07 15:53	SW846 8260B	7071029
Naphthalene	<0.650		ug/L	0.650	5.00	1	07/07/07 15:53	SW846 8260B	7071029
n-Propylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Styrene	<0.390		ug/L	0.390	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1,1,2-Tetrachloroethane	<0.470		ug/L	0.470	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1,2,2-Tetrachloroethane	<0.270		ug/L	0.270	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Tetrachloroethene	<0.320		ug/L	0.320	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Toluene	**0.770**	J	ug/L	0.420	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2,3-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2,4-Trichlorobenzene	<0.620		ug/L	0.620	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1,2-Trichloroethane	<0.570		ug/L	0.570	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,1,1-Trichloroethane	<0.350		ug/L	0.350	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Trichloroethene	<0.510		ug/L	0.510	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Trichlorofluoromethane	<0.400		ug/L	0.400	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2,3-Trichloropropane	<0.520		ug/L	0.520	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,3,5-Trimethylbenzene	<0.240		ug/L	0.240	1.00	1	07/07/07 15:53	SW846 8260B	7071029
1,2,4-Trimethylbenzene	<0.350		ug/L	0.350	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Vinyl chloride	<0.260		ug/L	0.260	1.00	1	07/07/07 15:53	SW846 8260B	7071029
Xylenes, total	<0.450		ug/L	0.450	3.00	1	07/07/07 15:53	SW846 8260B	7071029
Surr: 1,2-Dichloroethane-d4 (62-142%)	*110 %*					*1*	*07/07/07 15:53*	*SW846 8260B*	*7071029*
Surr: Dibromofluoromethane (78-123%)	*106 %*					*1*	*07/07/07 15:53*	*SW846 8260B*	*7071029*
Surr: Toluene-d8 (79-120%)	*104 %*					*1*	*07/07/07 15:53*	*SW846 8260B*	*7071029*
Surr: 4-Bromofluorobenzene (75-133%)	*98 %*					*1*	*07/07/07 15:53*	*SW846 8260B*	*7071029*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Chlorinated Herbicides by EPA Method 8151A							
SW846 8151A	7065630	NQF3703-08	30.69	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-09	30.70	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7070741	NQF3703-10	30.47	10.00	07/06/07 16:20	DCW	EPA 8151A
SW846 8151A	7065630	NQF3703-11	30.69	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-12	30.26	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-13	30.07	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-14	30.69	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-15	30.20	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-16	30.20	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-19	30.23	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-20	30.49	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-21	30.00	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-22	30.59	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-23	30.60	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-24	30.74	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-25	30.31	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-26	30.79	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7070235	NQF3703-27	30.19	10.00	07/03/07 17:15	BJM	EPA 8151A
SW846 8151A	7065630	NQF3703-28	30.63	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-29	30.10	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065630	NQF3703-30	30.51	10.00	06/30/07 16:20	CDJ	EPA 8151A
SW846 8151A	7065628	NQF3703-35	1050.00	10.00	07/02/07 15:45	DTA	EPA 8151A
Dissolved Mercury by EPA Methods 7470A/7471A							
SW846 7470A	7070083	NQF3703-37	30.00	30.00	07/02/07 07:31	KKK	EPA 7470
Dissolved Metals by EPA Method 6010B							
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
SW846 6010B	7070058	NQF3703-37	50.00	50.00	07/02/07 00:15	LTB	EPA 3010A Dissolve
Mercury by EPA Methods 7470A/7471A							
SW846 7470A	7070081	NQF3703-35	30.00	30.00	07/02/07 07:26	KKK	EPA 7470
SW846 7470A	7070081	NQF3703-36	30.00	30.00	07/02/07 07:26	KKK	EPA 7470
SW846 7471A	7070076	NQF3703-01	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-02	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070075	NQF3703-03	0.62	100.00	07/02/07 07:12	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-04	0.60	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-05	0.62	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-06	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-07	0.60	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-08	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-09	0.61	100.00	07/02/07 07:16	KKK	EPA 7471

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 7471A	7070076	NQF3703-10	0.62	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070075	NQF3703-11	0.62	100.00	07/02/07 07:12	KKK	EPA 7471
SW846 7471A	7070075	NQF3703-12	0.60	100.00	07/02/07 07:12	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-13	0.60	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-14	0.63	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070075	NQF3703-15	0.60	100.00	07/02/07 07:12	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-16	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-19	0.62	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-20	0.62	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-21	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-22	0.62	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-23	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-24	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-25	0.61	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070076	NQF3703-26	0.60	100.00	07/02/07 07:16	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-27	0.61	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070075	NQF3703-28	0.62	100.00	07/02/07 07:12	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-29	0.63	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-30	0.63	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-31	0.62	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-32	0.60	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-33	0.60	100.00	07/02/07 07:18	KKK	EPA 7471
SW846 7471A	7070078	NQF3703-34	0.60	100.00	07/02/07 07:18	KKK	EPA 7471
Organochlorine Pesticides by EPA Method 8081A							
SW846 8081A	7065631	NQF3703-08	30.43	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-09	30.35	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-10	30.88	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-11	30.44	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-12	30.20	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-13	30.61	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-14	30.55	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-15	30.51	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-16	30.35	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-19	30.82	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-20	30.62	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-21	30.47	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-22	30.40	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-23	30.88	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-24	30.01	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-25	30.27	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-26	30.57	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7070488	NQF3703-27	30.10	10.00	07/06/07 15:40	BJM	EPA 3550B
SW846 8081A	7065631	NQF3703-28	30.02	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-29	30.28	10.00	06/30/07 14:15	DCW	EPA 3550B
SW846 8081A	7065631	NQF3703-30	30.79	10.00	06/30/07 14:15	DCW	EPA 3550B

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St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 8081A	7070124	NQF3703-35	500.00	5.00	07/02/07 13:30	MSR	EPA 3510C
Semivolatile Organic Compounds by EPA Method 8270C							
SW846 8270C	7065633	NQF3703-01	30.96	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-02	30.57	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-02RE1	30.70	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-03	30.55	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-03RE1	30.55	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-19	30.93	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-19RE1	30.93	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-20	30.60	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-20RE1	30.52	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-21	30.65	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-21RE1	31.02	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-22	30.64	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-22RE1	31.25	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-23	30.59	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-23RE1	30.91	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-24	30.57	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-24RE1	31.54	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-25	30.47	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-25RE1	30.47	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-26	30.03	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7071161	NQF3703-26RE1	30.77	1.00	07/09/07 10:45	DCW	EPA 3550B
SW846 8270C	7070253	NQF3703-27	30.10	1.00	07/06/07 10:26	BJM	EPA 3550B
SW846 8270C	7065633	NQF3703-28	31.07	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-29	30.14	1.00	06/30/07 13:45	DCW	EPA 3550B
SW846 8270C	7065633	NQF3703-30	30.47	1.00	06/30/07 13:45	DCW	EPA 3550B
Total Metals by EPA Method 6010B							
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-01	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-02	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-03	0.53	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-04	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-05	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-06	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-07	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-08	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010B	7065535	NQF3703-09	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-10	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-11	0.51	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-12	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-13	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-14	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-15	0.52	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-16	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-19	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-20	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-21	0.51	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-22	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-23	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051

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Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-24	0.52	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-25	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7065535	NQF3703-26	0.50	100.00	06/29/07 13:40	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-27	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7065534	NQF3703-28	0.50	100.00	06/29/07 13:38	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-29	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-30	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-31	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-32	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-33	0.51	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070096	NQF3703-34	0.52	100.00	07/02/07 08:41	JMR	EPA 3051
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-35	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
SW846 6010B	7070052	NQF3703-36	50.00	50.00	07/02/07 00:00	LTB	EPA 3010A / 6010
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	7065514	NQF3703-20	5.00	5.00	06/26/07 13:10	SNN	EPA 5035
SW846 8260B	7065514	NQF3703-22	5.00	5.00	06/26/07 13:40	NKN	EPA 5035
SW846 8260B	7065291	NQF3703-23	6.76	5.00	06/26/07 00:00	SNN	EPA 5035

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
SW846 8260B	7065514	NQF3703-25	5.00	5.00	06/26/07 14:10	NKN	EPA 5035
SW846 8260B	7065514	NQF3703-27	5.00	5.00	06/26/07 14:40	NKN	EPA 5035
SW846 8260B	7065514	NQF3703-29	5.00	5.00	06/26/07 15:35	NKN	EPA 5035

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Total Metals by EPA Method 6010B						
7065534-BLK1						
Arsenic	<0.858		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Barium	<0.299		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Cadmium	<0.200		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Chromium	0.339	J	mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Lead	<0.898		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Selenium	<1.50		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
Silver	<0.499		mg/kg wet	7065534	7065534-BLK1	07/06/07 09:45
7065535-BLK1						
Arsenic	<0.860		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Barium	<0.300		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Cadmium	<0.200		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Chromium	<0.300		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Lead	<0.900		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Selenium	<1.50		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
Silver	<0.500		mg/kg wet	7065535	7065535-BLK1	07/02/07 18:54
7070052-BLK1						
Arsenic	<0.00500		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Barium	<0.00220		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Cadmium	<0.000500		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Chromium	<0.00250		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Lead	<0.00300		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Selenium	<0.00500		mg/L	7070052	7070052-BLK1	07/03/07 14:53
Silver	<0.00260		mg/L	7070052	7070052-BLK1	07/03/07 14:53
7070096-BLK1						
Arsenic	<0.860		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Barium	<0.300		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Cadmium	<0.200		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Chromium	<0.300		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Lead	<0.900		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Selenium	<1.50		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Silver	<0.500		mg/kg wet	7070096	7070096-BLK1	07/02/07 14:19
Dissolved Metals by EPA Method 6010B						
7070058-BLK1						
Arsenic	<0.00500		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Barium	<0.00220		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Cadmium	<0.000500		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Chromium	<0.00250		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Lead	<0.00300		mg/L	7070058	7070058-BLK1	07/02/07 14:18

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Dissolved Metals by EPA Method 6010B						
7070058-BLK1						
Selenium	<0.00500		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Silver	<0.00260		mg/L	7070058	7070058-BLK1	07/02/07 14:18
Mercury by EPA Methods 7470A/7471A						
7070075-BLK1						
Mercury	<0.0300		mg/kg wet	7070075	7070075-BLK1	07/06/07 08:22
7070076-BLK1						
Mercury	<0.0300		mg/kg wet	7070076	7070076-BLK1	07/05/07 09:02
7070078-BLK1						
Mercury	<0.0300		mg/kg wet	7070078	7070078-BLK1	07/05/07 11:17
7070081-BLK1						
Mercury	<0.000100		mg/L	7070081	7070081-BLK1	07/05/07 08:25
Dissolved Mercury by EPA Methods 7470A/7471A						
7070083-BLK1						
Mercury	<0.000100		mg/L	7070083	7070083-BLK1	07/05/07 11:20
Organochlorine Pesticides by EPA Method 8081A						
7065631-BLK1						
Aldrin	<0.000500		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
delta-BHC	<0.000600		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
alpha-BHC	<0.000400		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
beta-BHC	<0.00150		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
gamma-BHC (Lindane)	<0.000800		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
alpha-Chlordane	<0.00160		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
gamma-Chlordane	<0.000700		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Chlordane	<0.0120		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
4,4'-DDD	<0.000600		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
4,4'-DDE	<0.000700		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
4,4'-DDT	<0.000700		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Dieldrin	<0.000500		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endosulfan I	<0.000800		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endosulfan II	<0.00100		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endosulfan sulfate	<0.000600		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endrin	<0.000800		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endrin aldehyde	<0.000600		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Endrin ketone	<0.00150		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Heptachlor	<0.000800		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Heptachlor epoxide	<0.00150		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A						
7065631-BLK1						
Methoxychlor	<0.00100		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Toxaphene	<0.0290		mg/kg wet	7065631	7065631-BLK1	07/06/07 12:39
Surrogate: Tetrachloro-meta-xylene	108%			7065631	7065631-BLK1	07/06/07 12:39
Surrogate: Decachlorobiphenyl	114%			7065631	7065631-BLK1	07/06/07 12:39
7070124-BLK1						
Aldrin	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
delta-BHC	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
alpha-BHC	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
beta-BHC	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
gamma-BHC (Lindane)	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
alpha-Chlordane	<0.0400		ug/L	7070124	7070124-BLK1	07/05/07 21:11
gamma-Chlordane	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Chlordane	<0.300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
4,4'-DDD	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
4,4'-DDE	<0.0200		ug/L	7070124	7070124-BLK1	07/05/07 21:11
4,4'-DDT	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Dieldrin	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endosulfan I	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endosulfan II	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endosulfan sulfate	<0.0400		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endrin	<0.0400		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endrin aldehyde	<0.0400		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Endrin ketone	<0.0400		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Heptachlor	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Heptachlor epoxide	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Methoxychlor	<0.0300		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Toxaphene	<1.70		ug/L	7070124	7070124-BLK1	07/05/07 21:11
Surrogate: Tetrachloro-meta-xylene	105%			7070124	7070124-BLK1	07/05/07 21:11
Surrogate: Decachlorobiphenyl	87%			7070124	7070124-BLK1	07/05/07 21:11
7070488-BLK1						
Aldrin	<0.000500		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
delta-BHC	<0.000600		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
alpha-BHC	<0.000400		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
beta-BHC	<0.00150		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
gamma-BHC (Lindane)	<0.000800		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
alpha-Chlordane	<0.00160		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
gamma-Chlordane	<0.000700		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Chlordane	<0.0120		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
4,4'-DDD	<0.000600		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
4,4'-DDE	<0.000700		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A						
7070488-BLK1						
4,4'-DDT	<0.000700		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Dieldrin	<0.000500		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endosulfan I	<0.000800		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endosulfan II	<0.00100		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endosulfan sulfate	<0.000600		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endrin	<0.000800		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endrin aldehyde	<0.000600		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Endrin ketone	<0.00150		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Heptachlor	<0.000800		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Heptachlor epoxide	<0.00150		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Methoxychlor	<0.00100		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Toxaphene	<0.0290		mg/kg wet	7070488	7070488-BLK1	07/08/07 08:00
Surrogate: Tetrachloro-meta-xylene	94%			7070488	7070488-BLK1	07/08/07 08:00
Surrogate: Decachlorobiphenyl	130%			7070488	7070488-BLK1	07/08/07 08:00
Chlorinated Herbicides by EPA Method 8151A						
7065628-BLK1						
2,4-D	<0.0300		ug/L	7065628	7065628-BLK1	07/06/07 14:29
2,4,5-T	<0.0300		ug/L	7065628	7065628-BLK1	07/06/07 14:29
2,4,5-TP (Silvex)	<0.0300		ug/L	7065628	7065628-BLK1	07/06/07 14:29
Surrogate: Dichloroacetic Acid	65%			7065628	7065628-BLK1	07/06/07 14:29
7065630-BLK1						
2,4-D	<0.0120		mg/kg wet	7065630	7065630-BLK1	07/06/07 16:33
2,4,5-T	<0.0100		mg/kg wet	7065630	7065630-BLK1	07/06/07 16:33
2,4,5-TP (Silvex)	<0.0110		mg/kg wet	7065630	7065630-BLK1	07/06/07 16:33
Surrogate: Dichloroacetic Acid	76%			7065630	7065630-BLK1	07/06/07 16:33
7070235-BLK1						
2,4-D	<0.0120		mg/kg wet	7070235	7070235-BLK1	07/09/07 12:39
2,4,5-T	<0.0100		mg/kg wet	7070235	7070235-BLK1	07/09/07 12:39
2,4,5-TP (Silvex)	<0.0110		mg/kg wet	7070235	7070235-BLK1	07/09/07 12:39
Surrogate: Dichloroacetic Acid	81%			7070235	7070235-BLK1	07/09/07 12:39
7070741-BLK1						
2,4-D	<0.0120		mg/kg wet	7070741	7070741-BLK1	07/11/07 00:16
2,4,5-T	<0.0100		mg/kg wet	7070741	7070741-BLK1	07/11/07 00:16
2,4,5-TP (Silvex)	<0.0110		mg/kg wet	7070741	7070741-BLK1	07/11/07 00:16
Surrogate: Dichloroacetic Acid	74%			7070741	7070741-BLK1	07/11/07 00:16
Volatile Organic Compounds by EPA Method 8260B						
7065291-BLK1						

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7065291-BLK1						
Acetone	<0.0200		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Benzene	<0.000600		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Bromobenzene	<0.00102		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Bromochloromethane	<0.000650		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Bromodichloromethane	<0.000640		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Bromoform	<0.000540		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Bromomethane	<0.00104		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
2-Butanone	<0.00626		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
sec-Butylbenzene	<0.000550		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
n-Butylbenzene	<0.000540		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
tert-Butylbenzene	<0.000640		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Carbon disulfide	<0.000530		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Carbon Tetrachloride	<0.000720		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Chlorobenzene	<0.000560		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Chlorodibromomethane	<0.000810		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Chloroethane	<0.00105		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Chloroform	<0.000900		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Chloromethane	<0.000720		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
2-Chlorotoluene	<0.000550		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
4-Chlorotoluene	<0.000500		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2-Dibromo-3-chloropropane	<0.00148		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2-Dibromoethane (EDB)	<0.000610		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Dibromomethane	<0.000570		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,4-Dichlorobenzene	<0.000520		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,3-Dichlorobenzene	<0.000600		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2-Dichlorobenzene	<0.000490		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Dichlorodifluoromethane	<0.000620		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1-Dichloroethane	<0.000700		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2-Dichloroethane	<0.000540		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
cis-1,2-Dichloroethene	<0.000830		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1-Dichloroethene	<0.000500		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
trans-1,2-Dichloroethene	<0.000520		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,3-Dichloropropane	<0.000530		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2-Dichloropropane	<0.000500		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
2,2-Dichloropropane	<0.000740		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
cis-1,3-Dichloropropene	<0.000580		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
trans-1,3-Dichloropropene	<0.000660		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1-Dichloropropene	<0.000650		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Ethylbenzene	<0.000630		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Hexachlorobutadiene	<0.000640		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
2-Hexanone	<0.00396		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Isopropylbenzene	<0.000550		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7065291-BLK1						
p-Isopropyltoluene	<0.000680		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Methyl tert-Butyl Ether	<0.000530		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Methylene Chloride	<0.00238		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
4-Methyl-2-pentanone	<0.00396		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Naphthalene	<0.000810		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
n-Propylbenzene	<0.000670		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Styrene	<0.000550		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1,1,2-Tetrachloroethane	<0.000720		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1,2,2-Tetrachloroethane	<0.000570		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Tetrachloroethene	<0.000750		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Toluene	<0.000660		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2,3-Trichlorobenzene	<0.000830		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2,4-Trichlorobenzene	<0.000650		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1,2-Trichloroethane	<0.000800		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,1,1-Trichloroethane	<0.000720		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Trichloroethene	<0.000600		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Trichlorofluoromethane	<0.000870		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2,3-Trichloropropane	<0.000910		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,3,5-Trimethylbenzene	<0.000510		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
1,2,4-Trimethylbenzene	<0.000590		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Vinyl chloride	<0.000750		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Xylenes, total	<0.00130		mg/kg wet	7065291	7065291-BLK1	07/05/07 05:46
Surrogate: 1,2-Dichloroethane-d4	95%			7065291	7065291-BLK1	07/05/07 05:46
Surrogate: Dibromofluoromethane	98%			7065291	7065291-BLK1	07/05/07 05:46
Surrogate: Toluene-d8	107%			7065291	7065291-BLK1	07/05/07 05:46
Surrogate: 4-Bromofluorobenzene	104%			7065291	7065291-BLK1	07/05/07 05:46
7065514-BLK1						
Acetone	<0.0200		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Benzene	<0.000600		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Bromobenzene	<0.00102		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Bromochloromethane	<0.000650		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Bromodichloromethane	<0.000640		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Bromoform	<0.000540		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Bromomethane	<0.00104		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
2-Butanone	<0.00626		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
sec-Butylbenzene	<0.000550		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
n-Butylbenzene	<0.000540		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
tert-Butylbenzene	<0.000640		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Carbon disulfide	<0.000530		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Carbon Tetrachloride	<0.000720		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Chlorobenzene	<0.000560		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7065514-BLK1						
Chlorodibromomethane	<0.000810		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Chloroethane	<0.00105		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Chloroform	<0.000900		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Chloromethane	<0.000720		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
2-Chlorotoluene	<0.000550		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
4-Chlorotoluene	<0.000500		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2-Dibromo-3-chloropropane	<0.00148		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2-Dibromoethane (EDB)	<0.000610		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Dibromomethane	<0.000570		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,4-Dichlorobenzene	<0.000520		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,3-Dichlorobenzene	<0.000600		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2-Dichlorobenzene	<0.000490		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Dichlorodifluoromethane	<0.000620		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1-Dichloroethane	<0.000700		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2-Dichloroethane	<0.000540		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
cis-1,2-Dichloroethene	<0.000830		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1-Dichloroethene	<0.000500		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
trans-1,2-Dichloroethene	<0.000520		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,3-Dichloropropane	<0.000530		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2-Dichloropropane	<0.000500		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
2,2-Dichloropropane	<0.000740		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
cis-1,3-Dichloropropene	<0.000580		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
trans-1,3-Dichloropropene	<0.000660		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1-Dichloropropene	<0.000650		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Ethylbenzene	<0.000630		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Hexachlorobutadiene	<0.000640		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
2-Hexanone	<0.00396		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Isopropylbenzene	<0.000550		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
p-Isopropyltoluene	<0.000680		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Methyl tert-Butyl Ether	<0.000530		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Methylene Chloride	<0.00238		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
4-Methyl-2-pentanone	<0.00396		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Naphthalene	0.00126	J	mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
n-Propylbenzene	<0.000670		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Styrene	<0.000550		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1,1,2-Tetrachloroethane	<0.000720		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1,2,2-Tetrachloroethane	<0.000570		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Tetrachloroethene	<0.000750		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Toluene	<0.000660		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2,3-Trichlorobenzene	<0.000830		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2,4-Trichlorobenzene	<0.000650		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,1,2-Trichloroethane	<0.000800		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7065514-BLK1						
1,1,1-Trichloroethane	<0.000720		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Trichloroethene	<0.000600		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Trichlorofluoromethane	<0.000870		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2,3-Trichloropropane	<0.000910		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,3,5-Trimethylbenzene	<0.000510		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
1,2,4-Trimethylbenzene	<0.000590		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Vinyl chloride	<0.000750		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Xylenes, total	<0.00130		mg/kg wet	7065514	7065514-BLK1	07/05/07 18:33
Surrogate: 1,2-Dichloroethane-d4	98%			7065514	7065514-BLK1	07/05/07 18:33
Surrogate: Dibromofluoromethane	99%			7065514	7065514-BLK1	07/05/07 18:33
Surrogate: Toluene-d8	98%			7065514	7065514-BLK1	07/05/07 18:33
Surrogate: 4-Bromofluorobenzene	99%			7065514	7065514-BLK1	07/05/07 18:33
7071029-BLK1						
Acetone	<7.41		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Benzene	<0.330		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Bromobenzene	<0.450		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Bromochloromethane	<0.700		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Bromodichloromethane	<0.390		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Bromoform	<0.540		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Bromomethane	<0.420		ug/L	7071029	7071029-BLK1	07/07/07 14:55
2-Butanone	<3.06		ug/L	7071029	7071029-BLK1	07/07/07 14:55
sec-Butylbenzene	<0.260		ug/L	7071029	7071029-BLK1	07/07/07 14:55
n-Butylbenzene	<0.780		ug/L	7071029	7071029-BLK1	07/07/07 14:55
tert-Butylbenzene	<0.400		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Carbon disulfide	<0.230		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Carbon Tetrachloride	<0.410		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Chlorobenzene	<0.340		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Chlorodibromomethane	<0.480		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Chloroethane	<0.350		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Chloroform	<0.510		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Chloromethane	<0.310		ug/L	7071029	7071029-BLK1	07/07/07 14:55
2-Chlorotoluene	<0.210		ug/L	7071029	7071029-BLK1	07/07/07 14:55
4-Chlorotoluene	<0.410		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2-Dibromo-3-chloropropane	<1.01		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2-Dibromoethane (EDB)	<0.320		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Dibromomethane	<0.430		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,4-Dichlorobenzene	<0.360		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,3-Dichlorobenzene	<0.410		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2-Dichlorobenzene	<0.440		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Dichlorodifluoromethane	<0.290		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1-Dichloroethane	<0.600		ug/L	7071029	7071029-BLK1	07/07/07 14:55

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
7071029-BLK1						
1,2-Dichloroethane	<0.460		ug/L	7071029	7071029-BLK1	07/07/07 14:55
cis-1,2-Dichloroethene	<0.540		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1-Dichloroethene	<0.270		ug/L	7071029	7071029-BLK1	07/07/07 14:55
trans-1,2-Dichloroethene	<0.200		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,3-Dichloropropane	<0.480		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2-Dichloropropane	<0.370		ug/L	7071029	7071029-BLK1	07/07/07 14:55
2,2-Dichloropropane	<0.370		ug/L	7071029	7071029-BLK1	07/07/07 14:55
cis-1,3-Dichloropropene	<0.330		ug/L	7071029	7071029-BLK1	07/07/07 14:55
trans-1,3-Dichloropropene	<0.310		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1-Dichloropropene	<0.280		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Ethylbenzene	<0.420		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Hexachlorobutadiene	<0.660		ug/L	7071029	7071029-BLK1	07/07/07 14:55
2-Hexanone	<2.19		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Isopropylbenzene	<0.410		ug/L	7071029	7071029-BLK1	07/07/07 14:55
p-Isopropyltoluene	<0.320		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Methyl tert-Butyl Ether	<0.310		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Methylene Chloride	<2.10		ug/L	7071029	7071029-BLK1	07/07/07 14:55
4-Methyl-2-pentanone	<4.15		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Naphthalene	<0.650		ug/L	7071029	7071029-BLK1	07/07/07 14:55
n-Propylbenzene	<0.350		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Styrene	<0.390		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1,1,2-Tetrachloroethane	<0.470		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1,2,2-Tetrachloroethane	<0.270		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Tetrachloroethene	<0.320		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Toluene	<0.420		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2,3-Trichlorobenzene	<0.620		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2,4-Trichlorobenzene	<0.620		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1,2-Trichloroethane	<0.570		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,1,1-Trichloroethane	<0.350		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Trichloroethene	<0.510		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Trichlorofluoromethane	<0.400		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2,3-Trichloropropane	<0.520		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,3,5-Trimethylbenzene	<0.240		ug/L	7071029	7071029-BLK1	07/07/07 14:55
1,2,4-Trimethylbenzene	<0.350		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Vinyl chloride	<0.260		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Xylenes, total	<0.450		ug/L	7071029	7071029-BLK1	07/07/07 14:55
Surrogate: 1,2-Dichloroethane-d4	105%			7071029	7071029-BLK1	07/07/07 14:55
Surrogate: Dibromofluoromethane	100%			7071029	7071029-BLK1	07/07/07 14:55
Surrogate: Toluene-d8	101%			7071029	7071029-BLK1	07/07/07 14:55
Surrogate: 4-Bromofluorobenzene	98%			7071029	7071029-BLK1	07/07/07 14:55

Semivolatile Organic Compounds by EPA Method 8270C

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
7065633-BLK1						
Acenaphthene	<0.0360		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Acenaphthylene	<0.0440		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Anthracene	<0.0400		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Benzo (a) anthracene	<0.0370		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Benzo (a) pyrene	<0.0400		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Benzo (b) fluoranthene	<0.0380		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Benzo (g,h,i) perylene	<0.0270		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Benzo (k) fluoranthene	<0.0460		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Bromophenyl phenyl ether	<0.120		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Butyl benzyl phthalate	<0.131		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Carbazole	<0.132		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Chloro-3-methylphenol	<0.120		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Chloroaniline	<0.0920		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Bis(2-chloroethoxy)methane	<0.114		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Bis(2-chloroethyl)ether	<0.105		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Bis(2-chloroisopropyl)ether	<0.144		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Chloronaphthalene	<0.0910		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Chlorophenol	<0.118		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Chlorophenyl phenyl ether	<0.124		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Chrysene	<0.0390		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Dibenz (a,h) anthracene	<0.0260		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Dibenzofuran	<0.144		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Di-n-butyl phthalate	<0.131		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
1,4-Dichlorobenzene	<0.0980		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
1,2-Dichlorobenzene	<0.0920		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
1,3-Dichlorobenzene	<0.106		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
3,3-Dichlorobenzidine	<0.183		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4-Dichlorophenol	<0.179		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Diethyl phthalate	<0.0930		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4-Dimethylphenol	<0.114		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Dimethyl phthalate	<0.118		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4,6-Dinitro-2-methylphenol	<0.196		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4-Dinitrophenol	<0.265		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,6-Dinitrotoluene	<0.122		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4-Dinitrotoluene	<0.144		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Di-n-octyl phthalate	<0.132		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Bis(2-ethylhexyl)phthalate	<0.162		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Fluoranthene	<0.0420		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Fluorene	<0.0430		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Hexachlorobenzene	<0.136		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Hexachlorobutadiene	<0.117		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Hexachlorocyclopentadiene	<0.126		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Hexachloroethane	<0.103		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C						
7065633-BLK1						
Indeno (1,2,3-cd) pyrene	<0.0340		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Isophorone	<0.133		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Methylnaphthalene	<0.0360		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Methylphenol	<0.116		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
3/4-Methylphenol	<0.126		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Naphthalene	<0.0400		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
3-Nitroaniline	<0.110		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Nitroaniline	<0.112		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Nitroaniline	<0.116		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Nitrobenzene	<0.112		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
4-Nitrophenol	<0.119		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2-Nitrophenol	<0.198		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
N-Nitrosodiphenylamine	<0.185		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
N-Nitrosodi-n-propylamine	<0.113		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Pentachlorophenol	<0.151		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Phenanthrene	<0.0400		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Phenol	<0.116		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Pyrene	<0.0470		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Pyridine	<0.0960		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
1,2,4-Trichlorobenzene	<0.0990		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
1-Methylnaphthalene	<0.0360		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4,6-Trichlorophenol	<0.0960		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
2,4,5-Trichlorophenol	<0.113		mg/kg wet	7065633	7065633-BLK1	07/05/07 17:14
Surrogate: Terphenyl-d14	71%			7065633	7065633-BLK1	07/05/07 17:14
Surrogate: 2,4,6-Tribromophenol	71%			7065633	7065633-BLK1	07/05/07 17:14
Surrogate: Phenol-d5	69%			7065633	7065633-BLK1	07/05/07 17:14
Surrogate: 2-Fluorobiphenyl	41%			7065633	7065633-BLK1	07/05/07 17:14
Surrogate: 2-Fluorophenol	50%			7065633	7065633-BLK1	07/05/07 17:14
Surrogate: Nitrobenzene-d5	41%			7065633	7065633-BLK1	07/05/07 17:14
7070253-BLK1						
Acenaphthene	<0.0360		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Acenaphthylene	<0.0440		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Anthracene	<0.0400		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Benzo (a) anthracene	<0.0370		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Benzo (a) pyrene	<0.0400		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Benzo (b) fluoranthene	<0.0380		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Benzo (g,h,i) perylene	<0.0270		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Benzo (k) fluoranthene	<0.0460		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
4-Bromophenyl phenyl ether	<0.120		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Butyl benzyl phthalate	<0.131		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Carbazole	<0.132		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C						
7070253-BLK1						
4-Chloro-3-methylphenol	<0.120		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
4-Chloroaniline	<0.0920		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Bis(2-chloroethoxy)methane	<0.114		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Bis(2-chloroethyl)ether	<0.105		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Bis(2-chloroisopropyl)ether	<0.144		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Chloronaphthalene	<0.0910		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Chlorophenol	<0.118		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
4-Chlorophenyl phenyl ether	<0.124		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Chrysene	<0.0390		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Dibenz (a,h) anthracene	<0.0260		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Dibenzofuran	<0.144		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Di-n-butyl phthalate	<0.131		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
1,4-Dichlorobenzene	<0.0980		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
1,2-Dichlorobenzene	<0.0920		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
1,3-Dichlorobenzene	<0.106		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
3,3-Dichlorobenzidine	<0.183		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4-Dichlorophenol	<0.179		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Diethyl phthalate	<0.0930		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4-Dimethylphenol	<0.114		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Dimethyl phthalate	<0.118		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
4,6-Dinitro-2-methylphenol	<0.196		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4-Dinitrophenol	<0.265		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,6-Dinitrotoluene	<0.122		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4-Dinitrotoluene	<0.144		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Di-n-octyl phthalate	<0.132		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Bis(2-ethylhexyl)phthalate	<0.162		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Fluoranthene	<0.0420		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Fluorene	<0.0430		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Hexachlorobenzene	<0.136		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Hexachlorobutadiene	<0.117		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Hexachlorocyclopentadiene	<0.126		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Hexachloroethane	<0.103		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Indeno (1,2,3-cd) pyrene	<0.0340		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Isophorone	<0.133		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Methylnaphthalene	<0.0360		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Methylphenol	<0.116		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
3/4-Methylphenol	<0.126		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Naphthalene	<0.0400		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
3-Nitroaniline	<0.110		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Nitroaniline	<0.112		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
4-Nitroaniline	<0.116		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Nitrobenzene	<0.112		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C						
7070253-BLK1						
4-Nitrophenol	<0.119		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2-Nitrophenol	<0.198		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
N-Nitrosodiphenylamine	<0.185		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
N-Nitrosodi-n-propylamine	<0.113		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Pentachlorophenol	<0.151		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Phenanthrene	<0.0400		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Phenol	<0.116		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Pyrene	<0.0470		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Pyridine	<0.0960		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
1,2,4-Trichlorobenzene	<0.0990		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
1-Methylnaphthalene	<0.0360		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4,6-Trichlorophenol	<0.0960		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
2,4,5-Trichlorophenol	<0.113		mg/kg wet	7070253	7070253-BLK1	07/07/07 16:24
Surrogate: Terphenyl-d14	95%			7070253	7070253-BLK1	07/07/07 16:24
Surrogate: 2,4,6-Tribromophenol	89%			7070253	7070253-BLK1	07/07/07 16:24
Surrogate: Phenol-d5	92%			7070253	7070253-BLK1	07/07/07 16:24
Surrogate: 2-Fluorobiphenyl	92%			7070253	7070253-BLK1	07/07/07 16:24
Surrogate: 2-Fluorophenol	88%			7070253	7070253-BLK1	07/07/07 16:24
Surrogate: Nitrobenzene-d5	90%	Z10		7070253	7070253-BLK1	07/07/07 16:24
7071161-BLK1						
Acenaphthene	<0.0360		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Acenaphthylene	<0.0440		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Anthracene	<0.0400		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Benzo (a) anthracene	<0.0370		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Benzo (a) pyrene	<0.0400		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Benzo (b) fluoranthene	<0.0380		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Benzo (g,h,i) perylene	<0.0270		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Benzo (k) fluoranthene	<0.0460		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Bromophenyl phenyl ether	<0.120		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Butyl benzyl phthalate	<0.131		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Carbazole	<0.132		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Chloro-3-methylphenol	<0.120		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Chloroaniline	<0.0920		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Bis(2-chloroethoxy)methane	<0.114		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Bis(2-chloroethyl)ether	<0.105		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Bis(2-chloroisopropyl)ether	<0.144		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Chloronaphthalene	<0.0910		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Chlorophenol	<0.118		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Chlorophenyl phenyl ether	<0.124		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Chrysene	<0.0390		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Dibenz (a,h) anthracene	<0.0260		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C						
7071161-BLK1						
Dibenzofuran	<0.144		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Di-n-butyl phthalate	<0.131		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
1,4-Dichlorobenzene	<0.0980		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
1,2-Dichlorobenzene	<0.0920		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
1,3-Dichlorobenzene	<0.106		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
3,3-Dichlorobenzidine	<0.183		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4-Dichlorophenol	<0.179		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Diethyl phthalate	<0.0930		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4-Dimethylphenol	<0.114		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Dimethyl phthalate	<0.118		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4,6-Dinitro-2-methylphenol	<0.196		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4-Dinitrophenol	<0.265		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,6-Dinitrotoluene	<0.122		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4-Dinitrotoluene	<0.144		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Di-n-octyl phthalate	<0.132		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Bis(2-ethylhexyl)phthalate	<0.162		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Fluoranthene	<0.0420		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Fluorene	<0.0430		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Hexachlorobenzene	<0.136		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Hexachlorobutadiene	<0.117		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Hexachlorocyclopentadiene	<0.126		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Hexachloroethane	<0.103		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Indeno (1,2,3-cd) pyrene	<0.0340		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Isophorone	<0.133		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Methylnaphthalene	<0.0360		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Methylphenol	<0.116		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
3/4-Methylphenol	<0.126		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Naphthalene	<0.0400		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
3-Nitroaniline	<0.110		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Nitroaniline	<0.112		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Nitroaniline	<0.116		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Nitrobenzene	<0.112		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
4-Nitrophenol	<0.119		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2-Nitrophenol	<0.198		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
N-Nitrosodiphenylamine	<0.185		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
N-Nitrosodi-n-propylamine	<0.113		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Pentachlorophenol	<0.151		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Phenanthrene	<0.0400		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Phenol	<0.116		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Pyrene	<0.0470		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Pyridine	<0.0960		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
1,2,4-Trichlorobenzene	<0.0990		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C						
7071161-BLK1						
1-Methylnaphthalene	<0.0360		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4,6-Trichlorophenol	<0.0960		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
2,4,5-Trichlorophenol	<0.113		mg/kg wet	7071161	7071161-BLK1	07/10/07 22:39
Surrogate: Terphenyl-d14	87%			7071161	7071161-BLK1	07/10/07 22:39
Surrogate: 2,4,6-Tribromophenol	85%			7071161	7071161-BLK1	07/10/07 22:39
Surrogate: Phenol-d5	70%			7071161	7071161-BLK1	07/10/07 22:39
Surrogate: 2-Fluorobiphenyl	74%			7071161	7071161-BLK1	07/10/07 22:39
Surrogate: 2-Fluorophenol	63%			7071161	7071161-BLK1	07/10/07 22:39
Surrogate: Nitrobenzene-d5	69%			7071161	7071161-BLK1	07/10/07 22:39

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
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	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Total Metals by EPA Method 6010B								
7065534-BS1								
Arsenic	20.0	19.9		mg/kg wet	100%	80 - 120	7065534	07/06/07 09:48
Barium	400	419		mg/kg wet	105%	80 - 120	7065534	07/06/07 09:48
Cadmium	20.0	20.8		mg/kg wet	104%	80 - 120	7065534	07/06/07 09:48
Chromium	40.0	41.1		mg/kg wet	103%	80 - 120	7065534	07/06/07 09:48
Lead	100	101		mg/kg wet	101%	80 - 120	7065534	07/06/07 09:48
Selenium	20.0	19.9		mg/kg wet	99%	80 - 120	7065534	07/06/07 09:48
Silver	10.0	10.5		mg/kg wet	105%	75 - 125	7065534	07/06/07 09:48
7065535-BS1								
Arsenic	20.0	18.4		mg/kg wet	92%	80 - 120	7065535	07/02/07 18:58
Barium	400	395		mg/kg wet	99%	80 - 120	7065535	07/02/07 18:58
Cadmium	20.0	19.3		mg/kg wet	96%	80 - 120	7065535	07/02/07 18:58
Chromium	40.0	39.2		mg/kg wet	98%	80 - 120	7065535	07/02/07 18:58
Lead	100	94.5		mg/kg wet	94%	80 - 120	7065535	07/02/07 18:58
Selenium	20.0	17.3		mg/kg wet	86%	80 - 120	7065535	07/02/07 18:58
Silver	10.0	9.76		mg/kg wet	98%	75 - 125	7065535	07/02/07 18:58
7070052-BS1								
Arsenic	0.0500	0.0520		mg/L	104%	80 - 120	7070052	07/03/07 14:58
Barium	2.00	2.12		mg/L	106%	80 - 120	7070052	07/03/07 14:58
Cadmium	0.0500	0.0560		mg/L	112%	80 - 120	7070052	07/03/07 14:58
Chromium	0.200	0.218		mg/L	109%	80 - 120	7070052	07/03/07 14:58
Lead	0.0500	0.0500		mg/L	100%	80 - 120	7070052	07/03/07 14:58
Selenium	0.0500	0.0553		mg/L	111%	80 - 120	7070052	07/03/07 14:58
Silver	0.0500	0.0503		mg/L	101%	80 - 120	7070052	07/03/07 14:58
7070096-BS1								
Arsenic	20.0	19.5		mg/kg wet	97%	80 - 120	7070096	07/02/07 14:24
Barium	400	409		mg/kg wet	102%	80 - 120	7070096	07/02/07 14:24
Cadmium	20.0	21.5		mg/kg wet	107%	80 - 120	7070096	07/02/07 14:24
Chromium	40.0	42.1		mg/kg wet	105%	80 - 120	7070096	07/02/07 14:24
Lead	100	102		mg/kg wet	102%	80 - 120	7070096	07/02/07 14:24
Selenium	20.0	19.9		mg/kg wet	99%	80 - 120	7070096	07/02/07 14:24
Silver	10.0	10.1		mg/kg wet	101%	75 - 125	7070096	07/02/07 14:24
Dissolved Metals by EPA Method 6010B								
7070058-BS1								
Arsenic	0.0500	0.0549		mg/L	110%	80 - 120	7070058	07/02/07 14:23
Barium	2.00	2.06		mg/L	103%	80 - 120	7070058	07/02/07 14:23
Cadmium	0.0500	0.0507		mg/L	101%	80 - 120	7070058	07/02/07 14:23
Chromium	0.200	0.211		mg/L	106%	80 - 120	7070058	07/02/07 14:23
Lead	0.0500	0.0503		mg/L	101%	80 - 120	7070058	07/02/07 14:23

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Dissolved Metals by EPA Method 6010B								
7070058-BS1								
Selenium	0.0500	0.0510		mg/L	102%	80 - 120	7070058	07/02/07 14:23
Silver	0.100	0.0999		mg/L	100%	80 - 120	7070058	07/02/07 14:23
Mercury by EPA Methods 7470A/7471A								
7070075-BS1								
Mercury	0.167	0.175		mg/kg wet	105%	78 - 120	7070075	07/06/07 08:24
7070076-BS1								
Mercury	0.167	0.183		mg/kg wet	110%	78 - 120	7070076	07/05/07 09:04
7070078-BS1								
Mercury	0.167	0.168		mg/kg wet	101%	78 - 120	7070078	07/05/07 11:19
7070081-BS1								
Mercury	0.00100	0.00103		mg/L	103%	78 - 124	7070081	07/05/07 08:27
Dissolved Mercury by EPA Methods 7470A/7471A								
7070083-BS1								
Mercury	0.00100	0.00113		mg/L	113%	78 - 124	7070083	07/05/07 11:22
Organochlorine Pesticides by EPA Method 8081A								
7065631-BS1								
Aldrin	0.0167	0.0140		mg/kg wet	84%	50 - 131	7065631	07/06/07 13:09
delta-BHC	0.0167	0.0123		mg/kg wet	74%	48 - 130	7065631	07/06/07 13:09
alpha-BHC	0.0167	0.0140		mg/kg wet	84%	55 - 131	7065631	07/06/07 13:09
beta-BHC	0.0167	0.0147		mg/kg wet	88%	56 - 143	7065631	07/06/07 13:09
gamma-BHC (Lindane)	0.0167	0.0140		mg/kg wet	84%	53 - 132	7065631	07/06/07 13:09
alpha-Chlordane	0.0167	0.0143		mg/kg wet	86%	59 - 132	7065631	07/06/07 13:09
gamma-Chlordane	0.0167	0.0137		mg/kg wet	82%	53 - 135	7065631	07/06/07 13:09
4,4'-DDD	0.0167	0.0150		mg/kg wet	90%	49 - 138	7065631	07/06/07 13:09
4,4'-DDE	0.0167	0.0190		mg/kg wet	114%	49 - 143	7065631	07/06/07 13:09
4,4'-DDT	0.0167	0.0150		mg/kg wet	90%	53 - 136	7065631	07/06/07 13:09
Dieldrin	0.0167	0.0147		mg/kg wet	88%	57 - 132	7065631	07/06/07 13:09
Endosulfan I	0.0167	0.0127		mg/kg wet	76%	54 - 132	7065631	07/06/07 13:09
Endosulfan II	0.0167	0.0143		mg/kg wet	86%	50 - 136	7065631	07/06/07 13:09
Endosulfan sulfate	0.0167	0.0143		mg/kg wet	86%	58 - 136	7065631	07/06/07 13:09
Endrin	0.0167	0.0150		mg/kg wet	90%	52 - 141	7065631	07/06/07 13:09
Endrin aldehyde	0.0167	0.0130		mg/kg wet	78%	38 - 139	7065631	07/06/07 13:09
Endrin ketone	0.0167	0.0143		mg/kg wet	86%	51 - 144	7065631	07/06/07 13:09
Heptachlor	0.0167	0.0143		mg/kg wet	86%	54 - 136	7065631	07/06/07 13:09
Heptachlor epoxide	0.0167	0.0143		mg/kg wet	86%	52 - 142	7065631	07/06/07 13:09
Methoxychlor	0.0167	0.0153		mg/kg wet	92%	54 - 144	7065631	07/06/07 13:09

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A								
7065631-BS1								
Surrogate: Tetrachloro-meta-xylene	0.0333	0.0320			96%	27 - 165	7065631	07/06/07 13:09
Surrogate: Decachlorobiphenyl	0.0333	0.0380			114%	37 - 171	7065631	07/06/07 13:09
7065631-BS2								
Chlordane	0.167	0.173		mg/kg wet	104%	48 - 158	7065631	07/06/07 13:38
Toxaphene	0.333	0.330		mg/kg wet	99%	36 - 149	7065631	07/06/07 13:38
Surrogate: Tetrachloro-meta-xylene	0.0167	0.0180			108%	27 - 165	7065631	07/06/07 13:38
Surrogate: Decachlorobiphenyl	0.0167	0.0200			120%	37 - 171	7065631	07/06/07 13:38
7070124-BS1								
Aldrin	1.00	0.750	MNR1	ug/L	75%	43 - 127	7070124	07/05/07 21:41
delta-BHC	1.00	0.790	MNR1	ug/L	79%	31 - 150	7070124	07/05/07 21:41
alpha-BHC	1.00	0.930	MNR1	ug/L	93%	61 - 134	7070124	07/05/07 21:41
beta-BHC	1.00	0.880	MNR1	ug/L	88%	62 - 134	7070124	07/05/07 21:41
gamma-BHC (Lindane)	1.00	0.900	MNR1	ug/L	90%	61 - 133	7070124	07/05/07 21:41
alpha-Chlordane	1.00	0.880	MNR1	ug/L	88%	54 - 132	7070124	07/05/07 21:41
gamma-Chlordane	1.00	0.830	MNR1	ug/L	83%	54 - 128	7070124	07/05/07 21:41
4,4'-DDD	1.00	0.980	MNR1	ug/L	98%	51 - 146	7070124	07/05/07 21:41
4,4'-DDE	1.00	1.07	MNR1	ug/L	107%	55 - 136	7070124	07/05/07 21:41
4,4'-DDT	1.00	0.970	MNR1	ug/L	97%	53 - 134	7070124	07/05/07 21:41
Dieldrin	1.00	0.920	MNR1	ug/L	92%	59 - 136	7070124	07/05/07 21:41
Endosulfan I	1.00	0.800	MNR1	ug/L	80%	57 - 131	7070124	07/05/07 21:41
Endosulfan II	1.00	0.880	MNR1	ug/L	88%	58 - 133	7070124	07/05/07 21:41
Endosulfan sulfate	1.00	0.880	MNR1	ug/L	88%	51 - 142	7070124	07/05/07 21:41
Endrin	1.00	0.940	MNR1	ug/L	94%	60 - 138	7070124	07/05/07 21:41
Endrin aldehyde	1.00	0.770	MNR1	ug/L	77%	51 - 130	7070124	07/05/07 21:41
Endrin ketone	1.00	0.850	MNR1	ug/L	85%	50 - 147	7070124	07/05/07 21:41
Heptachlor	1.00	0.790	MNR1	ug/L	79%	46 - 132	7070124	07/05/07 21:41
Heptachlor epoxide	1.00	0.880	MNR1	ug/L	88%	57 - 136	7070124	07/05/07 21:41
Methoxychlor	1.00	0.900	MNR1	ug/L	90%	48 - 146	7070124	07/05/07 21:41
Surrogate: Tetrachloro-meta-xylene	2.00	1.70			85%	46 - 127	7070124	07/05/07 21:41
Surrogate: Decachlorobiphenyl	2.00	1.99			100%	25 - 144	7070124	07/05/07 21:41
7070124-BS2								
Chlordane	10.0	9.80		ug/L	98%	52 - 146	7070124	07/05/07 22:10
Toxaphene	20.0	18.0		ug/L	90%	46 - 142	7070124	07/05/07 22:10
Surrogate: Tetrachloro-meta-xylene	1.00	0.970			97%	46 - 127	7070124	07/05/07 22:10
Surrogate: Decachlorobiphenyl	1.00	0.960			96%	25 - 144	7070124	07/05/07 22:10
7070488-BS1								
Aldrin	0.0167	0.0137		mg/kg wet	82%	50 - 131	7070488	07/08/07 08:30
delta-BHC	0.0167	0.0133		mg/kg wet	80%	48 - 130	7070488	07/08/07 08:30

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
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Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A								
7070488-BS1								
alpha-BHC	0.0167	0.0137		mg/kg wet	82%	55 - 131	7070488	07/08/07 08:30
beta-BHC	0.0167	0.0160		mg/kg wet	96%	56 - 143	7070488	07/08/07 08:30
gamma-BHC (Lindane)	0.0167	0.0143		mg/kg wet	86%	53 - 132	7070488	07/08/07 08:30
alpha-Chlordane	0.0167	0.0147		mg/kg wet	88%	59 - 132	7070488	07/08/07 08:30
gamma-Chlordane	0.0167	0.0143		mg/kg wet	86%	53 - 135	7070488	07/08/07 08:30
4,4'-DDD	0.0167	0.0177		mg/kg wet	106%	49 - 138	7070488	07/08/07 08:30
4,4'-DDE	0.0167	0.0213		mg/kg wet	128%	49 - 143	7070488	07/08/07 08:30
4,4'-DDT	0.0167	0.0130		mg/kg wet	78%	53 - 136	7070488	07/08/07 08:30
Dieldrin	0.0167	0.0150		mg/kg wet	90%	57 - 132	7070488	07/08/07 08:30
Endosulfan I	0.0167	0.0123		mg/kg wet	74%	54 - 132	7070488	07/08/07 08:30
Endosulfan II	0.0167	0.0147		mg/kg wet	88%	50 - 136	7070488	07/08/07 08:30
Endosulfan sulfate	0.0167	0.0140		mg/kg wet	84%	58 - 136	7070488	07/08/07 08:30
Endrin	0.0167	0.0150		mg/kg wet	90%	52 - 141	7070488	07/08/07 08:30
Endrin aldehyde	0.0167	0.0133		mg/kg wet	80%	38 - 139	7070488	07/08/07 08:30
Endrin ketone	0.0167	0.0147		mg/kg wet	88%	51 - 144	7070488	07/08/07 08:30
Heptachlor	0.0167	0.0133		mg/kg wet	80%	54 - 136	7070488	07/08/07 08:30
Heptachlor epoxide	0.0167	0.0143		mg/kg wet	86%	52 - 142	7070488	07/08/07 08:30
Methoxychlor	0.0167	0.0137		mg/kg wet	82%	54 - 144	7070488	07/08/07 08:30
Surrogate: Tetrachloro-meta-xylene	0.0333	0.0327			98%	27 - 165	7070488	07/08/07 08:30
Surrogate: Decachlorobiphenyl	0.0333	0.0407			122%	37 - 171	7070488	07/08/07 08:30
7070488-BS2								
Chlordane	0.167	0.193		mg/kg wet	116%	48 - 158	7070488	07/08/07 08:59
Toxaphene	0.333	0.363		mg/kg wet	109%	36 - 149	7070488	07/08/07 08:59
Surrogate: Tetrachloro-meta-xylene	0.0167	0.0220			132%	27 - 165	7070488	07/08/07 08:59
Surrogate: Decachlorobiphenyl	0.0167	0.0223			134%	37 - 171	7070488	07/08/07 08:59
Chlorinated Herbicides by EPA Method 8151A								
7065628-BS1								
2,4-D	5.00	3.68		ug/L	74%	46 - 134	7065628	07/06/07 15:00
2,4,5-T	5.00	4.75		ug/L	95%	39 - 128	7065628	07/06/07 15:00
2,4,5-TP (Silvex)	5.00	3.91		ug/L	78%	41 - 142	7065628	07/06/07 15:00
Surrogate: Dichloroacetic Acid	5.00	3.60			72%	32 - 155	7065628	07/06/07 15:00
7065630-BS1								
2,4-D	0.167	0.142		mg/kg wet	85%	28 - 144	7065630	07/06/07 17:04
2,4,5-T	0.167	0.148		mg/kg wet	89%	10 - 170	7065630	07/06/07 17:04
2,4,5-TP (Silvex)	0.167	0.128		mg/kg wet	77%	28 - 137	7065630	07/06/07 17:04
Surrogate: Dichloroacetic Acid	0.167	0.120			72%	27 - 162	7065630	07/06/07 17:04
7070235-BS1								
2,4-D	0.167	0.187		mg/kg wet	112%	28 - 144	7070235	07/09/07 13:11

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Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Chlorinated Herbicides by EPA Method 8151A								
7070235-BS1								
2,4,5-T	0.167	0.234		mg/kg wet	140%	10 - 170	7070235	07/09/07 13:11
2,4,5-TP (Silvex)	0.167	0.211		mg/kg wet	127%	28 - 137	7070235	07/09/07 13:11
Surrogate: Dichloroacetic Acid	0.167	0.129			77%	27 - 162	7070235	07/09/07 13:11
7070741-BS1								
2,4-D	0.167	0.152		mg/kg wet	91%	28 - 144	7070741	07/11/07 00:48
2,4,5-T	0.167	0.166		mg/kg wet	99%	10 - 170	7070741	07/11/07 00:48
2,4,5-TP (Silvex)	0.167	0.137		mg/kg wet	82%	28 - 137	7070741	07/11/07 00:48
Surrogate: Dichloroacetic Acid	0.167	0.129			78%	27 - 162	7070741	07/11/07 00:48
Volatile Organic Compounds by EPA Method 8260B								
7065291-BS1								
Acetone	250	275		ug/kg	110%	47 - 153	7065291	07/05/07 03:43
Benzene	50.0	53.7		ug/kg	107%	78 - 123	7065291	07/05/07 03:43
Bromobenzene	50.0	47.6		ug/kg	95%	65 - 133	7065291	07/05/07 03:43
Bromochloromethane	50.0	54.1		ug/kg	108%	74 - 133	7065291	07/05/07 03:43
Bromodichloromethane	50.0	52.3		ug/kg	105%	73 - 127	7065291	07/05/07 03:43
Bromoform	50.0	49.4		ug/kg	99%	61 - 136	7065291	07/05/07 03:43
Bromomethane	50.0	45.5		ug/kg	91%	44 - 165	7065291	07/05/07 03:43
2-Butanone	250	282		ug/kg	113%	58 - 139	7065291	07/05/07 03:43
sec-Butylbenzene	50.0	47.3		ug/kg	95%	73 - 134	7065291	07/05/07 03:43
n-Butylbenzene	50.0	42.3		ug/kg	85%	67 - 140	7065291	07/05/07 03:43
tert-Butylbenzene	50.0	48.5		ug/kg	97%	74 - 132	7065291	07/05/07 03:43
Carbon disulfide	50.0	55.3		ug/kg	111%	64 - 127	7065291	07/05/07 03:43
Carbon Tetrachloride	50.0	51.0		ug/kg	102%	72 - 136	7065291	07/05/07 03:43
Chlorobenzene	50.0	49.8		ug/kg	100%	80 - 124	7065291	07/05/07 03:43
Chlorodibromomethane	50.0	52.2		ug/kg	104%	74 - 132	7065291	07/05/07 03:43
Chloroethane	50.0	51.1		ug/kg	102%	58 - 143	7065291	07/05/07 03:43
Chloroform	50.0	52.2		ug/kg	104%	77 - 125	7065291	07/05/07 03:43
Chloromethane	50.0	40.5		ug/kg	81%	46 - 140	7065291	07/05/07 03:43
2-Chlorotoluene	50.0	50.3		ug/kg	101%	75 - 130	7065291	07/05/07 03:43
4-Chlorotoluene	50.0	46.8		ug/kg	94%	73 - 131	7065291	07/05/07 03:43
1,2-Dibromo-3-chloropropane	50.0	49.6		ug/kg	99%	58 - 139	7065291	07/05/07 03:43
1,2-Dibromoethane (EDB)	50.0	55.5		ug/kg	111%	79 - 129	7065291	07/05/07 03:43
Dibromomethane	50.0	53.7		ug/kg	107%	75 - 129	7065291	07/05/07 03:43
1,4-Dichlorobenzene	50.0	42.8		ug/kg	86%	70 - 132	7065291	07/05/07 03:43
1,3-Dichlorobenzene	50.0	44.9		ug/kg	90%	72 - 134	7065291	07/05/07 03:43
1,2-Dichlorobenzene	50.0	47.0		ug/kg	94%	77 - 133	7065291	07/05/07 03:43
Dichlorodifluoromethane	50.0	38.3		ug/kg	77%	22 - 155	7065291	07/05/07 03:43
1,1-Dichloroethane	50.0	52.2		ug/kg	104%	76 - 126	7065291	07/05/07 03:43
1,2-Dichloroethane	50.0	50.0		ug/kg	100%	73 - 131	7065291	07/05/07 03:43
cis-1,2-Dichloroethene	50.0	51.8		ug/kg	104%	77 - 125	7065291	07/05/07 03:43

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
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Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7065291-BS1								
1,1-Dichloroethene	50.0	55.9		ug/kg	112%	72 - 128	7065291	07/05/07 03:43
trans-1,2-Dichloroethene	50.0	54.5		ug/kg	109%	76 - 127	7065291	07/05/07 03:43
1,3-Dichloropropane	50.0	52.3		ug/kg	105%	77 - 127	7065291	07/05/07 03:43
1,2-Dichloropropane	50.0	51.1		ug/kg	102%	73 - 124	7065291	07/05/07 03:43
2,2-Dichloropropane	50.0	50.4		ug/kg	101%	55 - 142	7065291	07/05/07 03:43
cis-1,3-Dichloropropene	50.0	55.0		ug/kg	110%	76 - 128	7065291	07/05/07 03:43
trans-1,3-Dichloropropene	50.0	45.7		ug/kg	91%	71 - 131	7065291	07/05/07 03:43
1,1-Dichloropropene	50.0	52.4		ug/kg	105%	79 - 134	7065291	07/05/07 03:43
Ethylbenzene	50.0	50.0		ug/kg	100%	78 - 127	7065291	07/05/07 03:43
Hexachlorobutadiene	50.0	42.4		ug/kg	85%	65 - 140	7065291	07/05/07 03:43
2-Hexanone	250	282		ug/kg	113%	58 - 141	7065291	07/05/07 03:43
Isopropylbenzene	50.0	47.4		ug/kg	95%	73 - 123	7065291	07/05/07 03:43
p-Isopropyltoluene	50.0	43.8		ug/kg	88%	70 - 130	7065291	07/05/07 03:43
Methyl tert-Butyl Ether	50.0	51.7		ug/kg	103%	62 - 129	7065291	07/05/07 03:43
Methylene Chloride	50.0	51.9		ug/kg	104%	73 - 131	7065291	07/05/07 03:43
4-Methyl-2-pentanone	250	286		ug/kg	115%	61 - 138	7065291	07/05/07 03:43
Naphthalene	50.0	46.8		ug/kg	94%	61 - 145	7065291	07/05/07 03:43
n-Propylbenzene	50.0	50.4		ug/kg	101%	71 - 135	7065291	07/05/07 03:43
Styrene	50.0	53.1		ug/kg	106%	79 - 140	7065291	07/05/07 03:43
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/kg	106%	78 - 131	7065291	07/05/07 03:43
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/kg	107%	69 - 134	7065291	07/05/07 03:43
Tetrachloroethene	50.0	51.0		ug/kg	102%	75 - 130	7065291	07/05/07 03:43
Toluene	50.0	50.6		ug/kg	101%	77 - 124	7065291	07/05/07 03:43
1,2,3-Trichlorobenzene	50.0	40.7		ug/kg	81%	57 - 151	7065291	07/05/07 03:43
1,2,4-Trichlorobenzene	50.0	38.3		ug/kg	77%	51 - 159	7065291	07/05/07 03:43
1,1,2-Trichloroethane	50.0	52.6		ug/kg	105%	76 - 128	7065291	07/05/07 03:43
1,1,1-Trichloroethane	50.0	51.7		ug/kg	103%	75 - 131	7065291	07/05/07 03:43
Trichloroethene	50.0	52.3		ug/kg	105%	77 - 129	7065291	07/05/07 03:43
Trichlorofluoromethane	50.0	45.6		ug/kg	91%	63 - 136	7065291	07/05/07 03:43
1,2,3-Trichloropropane	50.0	48.0		ug/kg	96%	40 - 160	7065291	07/05/07 03:43
1,3,5-Trimethylbenzene	50.0	47.3		ug/kg	95%	74 - 133	7065291	07/05/07 03:43
1,2,4-Trimethylbenzene	50.0	47.0		ug/kg	94%	72 - 132	7065291	07/05/07 03:43
Vinyl chloride	50.0	50.6		ug/kg	101%	65 - 135	7065291	07/05/07 03:43
Xylenes, total	150	150		ug/kg	100%	77 - 128	7065291	07/05/07 03:43
Surrogate: 1,2-Dichloroethane-d4	50.0	46.3			93%	54 - 145	7065291	07/05/07 03:43
Surrogate: Dibromofluoromethane	50.0	49.0			98%	67 - 129	7065291	07/05/07 03:43
Surrogate: Toluene-d8	50.0	50.9			102%	66 - 142	7065291	07/05/07 03:43
Surrogate: 4-Bromofluorobenzene	50.0	51.9			104%	68 - 150	7065291	07/05/07 03:43
7065514-BS1								
Acetone	250	264		ug/kg	106%	47 - 153	7065514	07/05/07 18:02
Benzene	50.0	48.6		ug/kg	97%	78 - 123	7065514	07/05/07 18:02

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
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Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7065514-BS1								
Bromobenzene	50.0	48.2		ug/kg	96%	65 - 133	7065514	07/05/07 18:02
Bromochloromethane	50.0	52.7		ug/kg	105%	74 - 133	7065514	07/05/07 18:02
Bromodichloromethane	50.0	50.8		ug/kg	102%	73 - 127	7065514	07/05/07 18:02
Bromoform	50.0	55.1		ug/kg	110%	61 - 136	7065514	07/05/07 18:02
Bromomethane	50.0	68.8		ug/kg	138%	44 - 165	7065514	07/05/07 18:02
2-Butanone	250	281		ug/kg	112%	58 - 139	7065514	07/05/07 18:02
sec-Butylbenzene	50.0	49.4		ug/kg	99%	73 - 134	7065514	07/05/07 18:02
n-Butylbenzene	50.0	51.3		ug/kg	103%	67 - 140	7065514	07/05/07 18:02
tert-Butylbenzene	50.0	48.8		ug/kg	98%	74 - 132	7065514	07/05/07 18:02
Carbon disulfide	50.0	49.2		ug/kg	98%	64 - 127	7065514	07/05/07 18:02
Carbon Tetrachloride	50.0	50.6		ug/kg	101%	72 - 136	7065514	07/05/07 18:02
Chlorobenzene	50.0	48.4		ug/kg	97%	80 - 124	7065514	07/05/07 18:02
Chlorodibromomethane	50.0	50.5		ug/kg	101%	74 - 132	7065514	07/05/07 18:02
Chloroethane	50.0	53.0		ug/kg	106%	58 - 143	7065514	07/05/07 18:02
Chloroform	50.0	49.4		ug/kg	99%	77 - 125	7065514	07/05/07 18:02
Chloromethane	50.0	42.8		ug/kg	86%	46 - 140	7065514	07/05/07 18:02
2-Chlorotoluene	50.0	48.4		ug/kg	97%	75 - 130	7065514	07/05/07 18:02
4-Chlorotoluene	50.0	48.2		ug/kg	96%	73 - 131	7065514	07/05/07 18:02
1,2-Dibromo-3-chloropropane	50.0	53.3		ug/kg	107%	58 - 139	7065514	07/05/07 18:02
1,2-Dibromoethane (EDB)	50.0	51.6		ug/kg	103%	79 - 129	7065514	07/05/07 18:02
Dibromomethane	50.0	52.1		ug/kg	104%	75 - 129	7065514	07/05/07 18:02
1,4-Dichlorobenzene	50.0	50.2		ug/kg	100%	70 - 132	7065514	07/05/07 18:02
1,3-Dichlorobenzene	50.0	49.9		ug/kg	100%	72 - 134	7065514	07/05/07 18:02
1,2-Dichlorobenzene	50.0	50.7		ug/kg	101%	77 - 133	7065514	07/05/07 18:02
Dichlorodifluoromethane	50.0	35.1		ug/kg	70%	22 - 155	7065514	07/05/07 18:02
1,1-Dichloroethane	50.0	50.2		ug/kg	100%	76 - 126	7065514	07/05/07 18:02
1,2-Dichloroethane	50.0	49.6		ug/kg	99%	73 - 131	7065514	07/05/07 18:02
cis-1,2-Dichloroethene	50.0	48.4		ug/kg	97%	77 - 125	7065514	07/05/07 18:02
1,1-Dichloroethene	50.0	51.6		ug/kg	103%	72 - 128	7065514	07/05/07 18:02
trans-1,2-Dichloroethene	50.0	50.2		ug/kg	100%	76 - 127	7065514	07/05/07 18:02
1,3-Dichloropropane	50.0	48.6		ug/kg	97%	77 - 127	7065514	07/05/07 18:02
1,2-Dichloropropane	50.0	46.8		ug/kg	94%	73 - 124	7065514	07/05/07 18:02
2,2-Dichloropropane	50.0	44.5		ug/kg	89%	55 - 142	7065514	07/05/07 18:02
cis-1,3-Dichloropropene	50.0	46.9		ug/kg	94%	76 - 128	7065514	07/05/07 18:02
trans-1,3-Dichloropropene	50.0	45.7		ug/kg	91%	71 - 131	7065514	07/05/07 18:02
1,1-Dichloropropene	50.0	50.4		ug/kg	101%	79 - 134	7065514	07/05/07 18:02
Ethylbenzene	50.0	48.7		ug/kg	97%	78 - 127	7065514	07/05/07 18:02
Hexachlorobutadiene	50.0	56.3		ug/kg	113%	65 - 140	7065514	07/05/07 18:02
2-Hexanone	250	267		ug/kg	107%	58 - 141	7065514	07/05/07 18:02
Isopropylbenzene	50.0	46.8		ug/kg	94%	73 - 123	7065514	07/05/07 18:02
p-Isopropyltoluene	50.0	49.0		ug/kg	98%	70 - 130	7065514	07/05/07 18:02

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
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Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7065514-BS1								
Methyl tert-Butyl Ether	50.0	47.1		ug/kg	94%	62 - 129	7065514	07/05/07 18:02
Methylene Chloride	50.0	48.8		ug/kg	98%	73 - 131	7065514	07/05/07 18:02
4-Methyl-2-pentanone	250	245		ug/kg	98%	61 - 138	7065514	07/05/07 18:02
Naphthalene	50.0	57.5		ug/kg	115%	61 - 145	7065514	07/05/07 18:02
n-Propylbenzene	50.0	48.3		ug/kg	97%	71 - 135	7065514	07/05/07 18:02
Styrene	50.0	54.2		ug/kg	108%	79 - 140	7065514	07/05/07 18:02
1,1,1,2-Tetrachloroethane	50.0	49.2		ug/kg	98%	78 - 131	7065514	07/05/07 18:02
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/kg	104%	69 - 134	7065514	07/05/07 18:02
Tetrachloroethene	50.0	48.2		ug/kg	96%	75 - 130	7065514	07/05/07 18:02
Toluene	50.0	46.6		ug/kg	93%	77 - 124	7065514	07/05/07 18:02
1,2,3-Trichlorobenzene	50.0	55.6		ug/kg	111%	57 - 151	7065514	07/05/07 18:02
1,2,4-Trichlorobenzene	50.0	56.7		ug/kg	113%	51 - 159	7065514	07/05/07 18:02
1,1,2-Trichloroethane	50.0	49.6		ug/kg	99%	76 - 128	7065514	07/05/07 18:02
1,1,1-Trichloroethane	50.0	49.6		ug/kg	99%	75 - 131	7065514	07/05/07 18:02
Trichloroethene	50.0	50.4		ug/kg	101%	77 - 129	7065514	07/05/07 18:02
Trichlorofluoromethane	50.0	44.9		ug/kg	90%	63 - 136	7065514	07/05/07 18:02
1,2,3-Trichloropropane	50.0	45.7		ug/kg	91%	40 - 160	7065514	07/05/07 18:02
1,3,5-Trimethylbenzene	50.0	49.1		ug/kg	98%	74 - 133	7065514	07/05/07 18:02
1,2,4-Trimethylbenzene	50.0	49.7		ug/kg	99%	72 - 132	7065514	07/05/07 18:02
Vinyl chloride	50.0	45.5		ug/kg	91%	65 - 135	7065514	07/05/07 18:02
Xylenes, total	150	146		ug/kg	97%	77 - 128	7065514	07/05/07 18:02
Surrogate: 1,2-Dichloroethane-d4	50.0	49.2			98%	54 - 145	7065514	07/05/07 18:02
Surrogate: Dibromofluoromethane	50.0	50.6			101%	67 - 129	7065514	07/05/07 18:02
Surrogate: Toluene-d8	50.0	49.5			99%	66 - 142	7065514	07/05/07 18:02
Surrogate: 4-Bromofluorobenzene	50.0	50.2			100%	68 - 150	7065514	07/05/07 18:02
7071029-BS1								
Acetone	250	259		ug/L	104%	63 - 147	7071029	07/07/07 13:27
Benzene	50.0	41.3		ug/L	83%	78 - 125	7071029	07/07/07 13:27
Bromobenzene	50.0	49.7		ug/L	99%	71 - 142	7071029	07/07/07 13:27
Bromochloromethane	50.0	51.7		ug/L	103%	76 - 129	7071029	07/07/07 13:27
Bromodichloromethane	50.0	50.0		ug/L	100%	71 - 134	7071029	07/07/07 13:27
Bromoform	50.0	51.1		ug/L	102%	49 - 129	7071029	07/07/07 13:27
Bromomethane	50.0	57.1		ug/L	114%	42 - 154	7071029	07/07/07 13:27
2-Butanone	250	258		ug/L	103%	74 - 130	7071029	07/07/07 13:27
sec-Butylbenzene	50.0	57.3		ug/L	115%	78 - 129	7071029	07/07/07 13:27
n-Butylbenzene	50.0	56.8		ug/L	114%	68 - 138	7071029	07/07/07 13:27
tert-Butylbenzene	50.0	59.4		ug/L	119%	79 - 128	7071029	07/07/07 13:27
Carbon disulfide	50.0	48.8		ug/L	98%	65 - 122	7071029	07/07/07 13:27
Carbon Tetrachloride	50.0	57.4		ug/L	115%	62 - 142	7071029	07/07/07 13:27
Chlorobenzene	50.0	51.1		ug/L	102%	82 - 125	7071029	07/07/07 13:27
Chlorodibromomethane	50.0	48.9		ug/L	98%	67 - 135	7071029	07/07/07 13:27

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7071029-BS1								
Chloroethane	50.0	51.0		ug/L	102%	57 - 138	7071029	07/07/07 13:27
Chloroform	50.0	52.6		ug/L	105%	75 - 122	7071029	07/07/07 13:27
Chloromethane	50.0	40.8		ug/L	82%	31 - 147	7071029	07/07/07 13:27
2-Chlorotoluene	50.0	53.6		ug/L	107%	74 - 135	7071029	07/07/07 13:27
4-Chlorotoluene	50.0	54.1		ug/L	108%	74 - 133	7071029	07/07/07 13:27
1,2-Dibromo-3-chloropropane	50.0	54.0		ug/L	108%	45 - 140	7071029	07/07/07 13:27
1,2-Dibromoethane (EDB)	50.0	55.8		ug/L	112%	80 - 132	7071029	07/07/07 13:27
Dibromomethane	50.0	52.7		ug/L	105%	69 - 132	7071029	07/07/07 13:27
1,4-Dichlorobenzene	50.0	52.0		ug/L	104%	79 - 125	7071029	07/07/07 13:27
1,3-Dichlorobenzene	50.0	54.6		ug/L	109%	77 - 132	7071029	07/07/07 13:27
1,2-Dichlorobenzene	50.0	54.7		ug/L	109%	82 - 133	7071029	07/07/07 13:27
Dichlorodifluoromethane	50.0	36.4		ug/L	73%	34 - 120	7071029	07/07/07 13:27
1,1-Dichloroethane	50.0	52.7		ug/L	105%	79 - 120	7071029	07/07/07 13:27
1,2-Dichloroethane	50.0	53.7		ug/L	107%	64 - 134	7071029	07/07/07 13:27
cis-1,2-Dichloroethene	50.0	52.3		ug/L	105%	71 - 126	7071029	07/07/07 13:27
1,1-Dichloroethene	50.0	53.1		ug/L	106%	71 - 123	7071029	07/07/07 13:27
trans-1,2-Dichloroethene	50.0	54.6		ug/L	109%	74 - 127	7071029	07/07/07 13:27
1,3-Dichloropropane	50.0	50.6		ug/L	101%	80 - 128	7071029	07/07/07 13:27
1,2-Dichloropropane	50.0	49.7		ug/L	99%	73 - 120	7071029	07/07/07 13:27
2,2-Dichloropropane	50.0	60.1		ug/L	120%	25 - 156	7071029	07/07/07 13:27
cis-1,3-Dichloropropene	50.0	59.9		ug/L	120%	70 - 135	7071029	07/07/07 13:27
trans-1,3-Dichloropropene	50.0	49.4		ug/L	99%	61 - 124	7071029	07/07/07 13:27
1,1-Dichloropropene	50.0	52.7		ug/L	105%	79 - 138	7071029	07/07/07 13:27
Ethylbenzene	50.0	53.4		ug/L	107%	73 - 134	7071029	07/07/07 13:27
Hexachlorobutadiene	50.0	62.1		ug/L	124%	58 - 145	7071029	07/07/07 13:27
2-Hexanone	250	272		ug/L	109%	72 - 136	7071029	07/07/07 13:27
Isopropylbenzene	50.0	55.0		ug/L	110%	74 - 121	7071029	07/07/07 13:27
p-Isopropyltoluene	50.0	57.7		ug/L	115%	70 - 133	7071029	07/07/07 13:27
Methyl tert-Butyl Ether	50.0	50.4		ug/L	101%	69 - 122	7071029	07/07/07 13:27
Methylene Chloride	50.0	46.8		ug/L	94%	75 - 127	7071029	07/07/07 13:27
4-Methyl-2-pentanone	250	232		ug/L	93%	77 - 132	7071029	07/07/07 13:27
Naphthalene	50.0	60.2		ug/L	120%	65 - 145	7071029	07/07/07 13:27
n-Propylbenzene	50.0	54.4		ug/L	109%	76 - 133	7071029	07/07/07 13:27
Styrene	50.0	60.1		ug/L	120%	80 - 145	7071029	07/07/07 13:27
1,1,1,2-Tetrachloroethane	50.0	58.5		ug/L	117%	72 - 136	7071029	07/07/07 13:27
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L	99%	71 - 137	7071029	07/07/07 13:27
Tetrachloroethene	50.0	52.4		ug/L	105%	70 - 131	7071029	07/07/07 13:27
Toluene	50.0	49.5		ug/L	99%	78 - 122	7071029	07/07/07 13:27
1,2,3-Trichlorobenzene	50.0	57.1		ug/L	114%	60 - 144	7071029	07/07/07 13:27
1,2,4-Trichlorobenzene	50.0	61.4		ug/L	123%	63 - 140	7071029	07/07/07 13:27
1,1,2-Trichloroethane	50.0	49.8		ug/L	100%	81 - 127	7071029	07/07/07 13:27

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
7071029-BS1								
1,1,1-Trichloroethane	50.0	57.3		ug/L	115%	69 - 128	7071029	07/07/07 13:27
Trichloroethene	50.0	51.7		ug/L	103%	73 - 133	7071029	07/07/07 13:27
Trichlorofluoromethane	50.0	49.9		ug/L	100%	49 - 139	7071029	07/07/07 13:27
1,2,3-Trichloropropane	50.0	47.5		ug/L	95%	52 - 151	7071029	07/07/07 13:27
1,3,5-Trimethylbenzene	50.0	58.3		ug/L	117%	72 - 136	7071029	07/07/07 13:27
1,2,4-Trimethylbenzene	50.0	57.7		ug/L	115%	73 - 134	7071029	07/07/07 13:27
Vinyl chloride	50.0	43.7		ug/L	87%	54 - 137	7071029	07/07/07 13:27
Xylenes, total	150	167		ug/L	112%	79 - 130	7071029	07/07/07 13:27
Surrogate: 1,2-Dichloroethane-d4	50.0	51.2			102%	62 - 142	7071029	07/07/07 13:27
Surrogate: Dibromofluoromethane	50.0	51.6			103%	78 - 123	7071029	07/07/07 13:27
Surrogate: Toluene-d8	50.0	51.1			102%	79 - 120	7071029	07/07/07 13:27
Surrogate: 4-Bromofluorobenzene	50.0	50.0			100%	75 - 133	7071029	07/07/07 13:27
Semivolatile Organic Compounds by EPA Method 8270C								
7065633-BS1								
Acenaphthene	3.33	2.40		mg/kg wet	72%	54 - 112	7065633	07/05/07 17:44
Acenaphthylene	3.33	2.37		mg/kg wet	71%	57 - 114	7065633	07/05/07 17:44
Anthracene	3.33	2.61		mg/kg wet	78%	60 - 121	7065633	07/05/07 17:44
Benzo (a) anthracene	3.33	2.52		mg/kg wet	76%	58 - 116	7065633	07/05/07 17:44
Benzo (a) pyrene	3.33	2.86		mg/kg wet	86%	58 - 125	7065633	07/05/07 17:44
Benzo (b) fluoranthene	3.33	3.16		mg/kg wet	95%	51 - 122	7065633	07/05/07 17:44
Benzo (g,h,i) perylene	3.33	2.23		mg/kg wet	67%	52 - 118	7065633	07/05/07 17:44
Benzo (k) fluoranthene	3.33	2.35		mg/kg wet	70%	49 - 123	7065633	07/05/07 17:44
4-Bromophenyl phenyl ether	3.33	2.31		mg/kg wet	69%	50 - 101	7065633	07/05/07 17:44
Butyl benzyl phthalate	3.33	2.76		mg/kg wet	83%	55 - 131	7065633	07/05/07 17:44
Carbazole	3.33	2.55		mg/kg wet	77%	56 - 119	7065633	07/05/07 17:44
4-Chloro-3-methylphenol	3.33	2.13		mg/kg wet	64%	50 - 117	7065633	07/05/07 17:44
4-Chloroaniline	3.33	2.01		mg/kg wet	60%	47 - 106	7065633	07/05/07 17:44
Bis(2-chloroethoxy)methane	3.33	1.91		mg/kg wet	57%	48 - 106	7065633	07/05/07 17:44
Bis(2-chloroethyl)ether	3.33	2.28		mg/kg wet	68%	43 - 108	7065633	07/05/07 17:44
Bis(2-chloroisopropyl)ether	3.33	2.14		mg/kg wet	64%	47 - 112	7065633	07/05/07 17:44
2-Chloronaphthalene	3.33	2.41		mg/kg wet	72%	54 - 112	7065633	07/05/07 17:44
2-Chlorophenol	3.33	2.49		mg/kg wet	75%	52 - 109	7065633	07/05/07 17:44
4-Chlorophenyl phenyl ether	3.33	2.43		mg/kg wet	73%	54 - 111	7065633	07/05/07 17:44
Chrysene	3.33	2.52		mg/kg wet	75%	58 - 115	7065633	07/05/07 17:44
Dibenz (a,h) anthracene	3.33	2.46		mg/kg wet	74%	51 - 123	7065633	07/05/07 17:44
Dibenzofuran	3.33	2.50		mg/kg wet	75%	58 - 113	7065633	07/05/07 17:44
Di-n-butyl phthalate	3.33	2.67		mg/kg wet	80%	54 - 125	7065633	07/05/07 17:44
1,4-Dichlorobenzene	3.33	2.03		mg/kg wet	61%	41 - 107	7065633	07/05/07 17:44
1,2-Dichlorobenzene	3.37	2.18		mg/kg wet	65%	44 - 109	7065633	07/05/07 17:44
1,3-Dichlorobenzene	3.33	2.14		mg/kg wet	64%	42 - 106	7065633	07/05/07 17:44

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C								
7065633-BS1								
3,3-Dichlorobenzidine	3.33	2.40		mg/kg wet	72%	44 - 120	7065633	07/05/07 17:44
2,4-Dichlorophenol	3.33	2.02		mg/kg wet	61%	47 - 115	7065633	07/05/07 17:44
Diethyl phthalate	3.33	2.52		mg/kg wet	76%	51 - 117	7065633	07/05/07 17:44
2,4-Dimethylphenol	3.33	2.07		mg/kg wet	62%	24 - 118	7065633	07/05/07 17:44
Dimethyl phthalate	3.33	2.44		mg/kg wet	73%	54 - 113	7065633	07/05/07 17:44
4,6-Dinitro-2-methylphenol	3.33	2.70		mg/kg wet	81%	28 - 135	7065633	07/05/07 17:44
2,4-Dinitrophenol	3.33	2.52		mg/kg wet	76%	10 - 161	7065633	07/05/07 17:44
2,6-Dinitrotoluene	3.33	2.66		mg/kg wet	80%	58 - 130	7065633	07/05/07 17:44
2,4-Dinitrotoluene	3.33	2.82		mg/kg wet	85%	59 - 128	7065633	07/05/07 17:44
Di-n-octyl phthalate	3.33	2.90		mg/kg wet	87%	48 - 131	7065633	07/05/07 17:44
Bis(2-ethylhexyl)phthalate	3.33	2.68		mg/kg wet	80%	40 - 131	7065633	07/05/07 17:44
Fluoranthene	3.33	2.64		mg/kg wet	79%	56 - 118	7065633	07/05/07 17:44
Fluorene	3.33	2.49		mg/kg wet	75%	56 - 114	7065633	07/05/07 17:44
Hexachlorobenzene	3.33	2.65		mg/kg wet	80%	56 - 119	7065633	07/05/07 17:44
Hexachlorobutadiene	3.33	1.95		mg/kg wet	58%	42 - 112	7065633	07/05/07 17:44
Hexachlorocyclopentadiene	3.33	1.73		mg/kg wet	52%	19 - 124	7065633	07/05/07 17:44
Hexachloroethane	3.33	2.06		mg/kg wet	62%	40 - 107	7065633	07/05/07 17:44
Indeno (1,2,3-cd) pyrene	3.33	2.39		mg/kg wet	72%	54 - 119	7065633	07/05/07 17:44
Isophorone	3.33	2.19		mg/kg wet	66%	35 - 107	7065633	07/05/07 17:44
2-Methylnaphthalene	3.33	1.94		mg/kg wet	58%	48 - 110	7065633	07/05/07 17:44
2-Methylphenol	3.33	2.38		mg/kg wet	71%	54 - 116	7065633	07/05/07 17:44
3/4-Methylphenol	3.33	2.59		mg/kg wet	78%	56 - 131	7065633	07/05/07 17:44
Naphthalene	3.33	1.82		mg/kg wet	55%	44 - 102	7065633	07/05/07 17:44
3-Nitroaniline	3.33	2.46		mg/kg wet	74%	55 - 121	7065633	07/05/07 17:44
2-Nitroaniline	3.33	2.57		mg/kg wet	77%	58 - 119	7065633	07/05/07 17:44
4-Nitroaniline	3.33	2.63		mg/kg wet	79%	45 - 122	7065633	07/05/07 17:44
Nitrobenzene	3.33	1.87		mg/kg wet	56%	43 - 108	7065633	07/05/07 17:44
4-Nitrophenol	3.33	2.46		mg/kg wet	74%	27 - 155	7065633	07/05/07 17:44
2-Nitrophenol	3.33	1.95		mg/kg wet	59%	43 - 116	7065633	07/05/07 17:44
N-Nitrosodiphenylamine	3.33	2.79		mg/kg wet	84%	83 - 182	7065633	07/05/07 17:44
N-Nitrosodi-n-propylamine	3.33	2.30		mg/kg wet	69%	47 - 118	7065633	07/05/07 17:44
Pentachlorophenol	3.33	2.97		mg/kg wet	89%	17 - 146	7065633	07/05/07 17:44
Phenanthrene	3.33	2.49		mg/kg wet	75%	56 - 115	7065633	07/05/07 17:44
Phenol	3.33	2.39		mg/kg wet	72%	50 - 114	7065633	07/05/07 17:44
Pyrene	3.33	2.47		mg/kg wet	74%	55 - 124	7065633	07/05/07 17:44
Pyridine	3.33	2.15		mg/kg wet	64%	27 - 98	7065633	07/05/07 17:44
1,2,4-Trichlorobenzene	3.33	1.86		mg/kg wet	56%	43 - 103	7065633	07/05/07 17:44
1-Methylnaphthalene	3.37	1.88		mg/kg wet	56%	45 - 102	7065633	07/05/07 17:44
2,4,6-Trichlorophenol	3.33	2.53		mg/kg wet	76%	56 - 113	7065633	07/05/07 17:44
2,4,5-Trichlorophenol	3.33	2.61		mg/kg wet	78%	58 - 119	7065633	07/05/07 17:44
Surrogate: Terphenyl-d14	1.67	1.30			77%	49 - 123	7065633	07/05/07 17:44

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C								
7065633-BS1								
Surrogate: 2,4,6-Tribromophenol	1.67	1.45			86%	26 - 116	7065633	07/05/07 17:44
Surrogate: Phenol-d5	1.67	1.15			69%	24 - 103	7065633	07/05/07 17:44
Surrogate: 2-Fluorobiphenyl	1.67	1.12			67%	30 - 93	7065633	07/05/07 17:44
Surrogate: 2-Fluorophenol	1.67	1.20			71%	27 - 93	7065633	07/05/07 17:44
Surrogate: Nitrobenzene-d5	1.67	0.880			53%	34 - 87	7065633	07/05/07 17:44
7070253-BS1								
Acenaphthene	1.67	1.55		mg/kg wet	93%	54 - 112	7070253	07/07/07 16:46
Acenaphthylene	1.67	1.57		mg/kg wet	94%	57 - 114	7070253	07/07/07 16:46
Anthracene	1.67	1.70		mg/kg wet	102%	60 - 121	7070253	07/07/07 16:46
Benzo (a) anthracene	1.67	1.67		mg/kg wet	100%	58 - 116	7070253	07/07/07 16:46
Benzo (a) pyrene	1.67	1.74		mg/kg wet	105%	58 - 125	7070253	07/07/07 16:46
Benzo (b) fluoranthene	1.67	1.60		mg/kg wet	96%	51 - 122	7070253	07/07/07 16:46
Benzo (g,h,i) perylene	1.67	1.76		mg/kg wet	106%	52 - 118	7070253	07/07/07 16:46
Benzo (k) fluoranthene	1.67	1.64		mg/kg wet	98%	49 - 123	7070253	07/07/07 16:46
4-Bromophenyl phenyl ether	1.67	1.51		mg/kg wet	91%	50 - 101	7070253	07/07/07 16:46
Butyl benzyl phthalate	1.67	1.84		mg/kg wet	110%	55 - 131	7070253	07/07/07 16:46
Carbazole	1.67	1.61		mg/kg wet	97%	56 - 119	7070253	07/07/07 16:46
4-Chloro-3-methylphenol	1.67	1.47		mg/kg wet	88%	50 - 117	7070253	07/07/07 16:46
4-Chloroaniline	1.67	1.50		mg/kg wet	90%	47 - 106	7070253	07/07/07 16:46
Bis(2-chloroethoxy)methane	1.67	1.42		mg/kg wet	85%	48 - 106	7070253	07/07/07 16:46
Bis(2-chloroethyl)ether	1.67	1.42		mg/kg wet	85%	43 - 108	7070253	07/07/07 16:46
Bis(2-chloroisopropyl)ether	1.67	1.47		mg/kg wet	88%	47 - 112	7070253	07/07/07 16:46
2-Chloronaphthalene	1.67	1.58		mg/kg wet	95%	54 - 112	7070253	07/07/07 16:46
2-Chlorophenol	1.67	1.52		mg/kg wet	91%	52 - 109	7070253	07/07/07 16:46
4-Chlorophenyl phenyl ether	1.67	1.67		mg/kg wet	100%	54 - 111	7070253	07/07/07 16:46
Chrysene	1.67	1.89		mg/kg wet	113%	58 - 115	7070253	07/07/07 16:46
Dibenz (a,h) anthracene	1.67	1.74		mg/kg wet	104%	51 - 123	7070253	07/07/07 16:46
Dibenzofuran	1.67	1.63		mg/kg wet	98%	58 - 113	7070253	07/07/07 16:46
Di-n-butyl phthalate	1.67	1.78		mg/kg wet	107%	54 - 125	7070253	07/07/07 16:46
1,4-Dichlorobenzene	1.67	1.37		mg/kg wet	82%	41 - 107	7070253	07/07/07 16:46
1,2-Dichlorobenzene	1.68	1.48		mg/kg wet	88%	44 - 109	7070253	07/07/07 16:46
1,3-Dichlorobenzene	1.67	1.47		mg/kg wet	88%	42 - 106	7070253	07/07/07 16:46
3,3-Dichlorobenzidine	1.67	1.59		mg/kg wet	95%	44 - 120	7070253	07/07/07 16:46
2,4-Dichlorophenol	1.67	1.40		mg/kg wet	84%	47 - 115	7070253	07/07/07 16:46
Diethyl phthalate	1.67	1.62		mg/kg wet	97%	51 - 117	7070253	07/07/07 16:46
2,4-Dimethylphenol	1.67	1.57		mg/kg wet	94%	24 - 118	7070253	07/07/07 16:46
Dimethyl phthalate	1.67	1.58		mg/kg wet	95%	54 - 113	7070253	07/07/07 16:46
4,6-Dinitro-2-methylphenol	1.67	1.63		mg/kg wet	98%	28 - 135	7070253	07/07/07 16:46
2,4-Dinitrophenol	1.67	1.70		mg/kg wet	102%	10 - 161	7070253	07/07/07 16:46
2,6-Dinitrotoluene	1.67	1.71		mg/kg wet	103%	58 - 130	7070253	07/07/07 16:46
2,4-Dinitrotoluene	1.67	1.75		mg/kg wet	105%	59 - 128	7070253	07/07/07 16:46

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C								
7070253-BS1								
Di-n-octyl phthalate	1.67	1.74		mg/kg wet	104%	48 - 131	7070253	07/07/07 16:46
Bis(2-ethylhexyl)phthalate	1.67	1.81		mg/kg wet	109%	40 - 131	7070253	07/07/07 16:46
Fluoranthene	1.67	1.63		mg/kg wet	98%	56 - 118	7070253	07/07/07 16:46
Fluorene	1.67	1.58		mg/kg wet	95%	56 - 114	7070253	07/07/07 16:46
Hexachlorobenzene	1.67	1.66		mg/kg wet	100%	56 - 119	7070253	07/07/07 16:46
Hexachlorobutadiene	1.67	1.42		mg/kg wet	85%	42 - 112	7070253	07/07/07 16:46
Hexachlorocyclopentadiene	1.67	1.58		mg/kg wet	95%	19 - 124	7070253	07/07/07 16:46
Hexachloroethane	1.67	1.42		mg/kg wet	85%	40 - 107	7070253	07/07/07 16:46
Indeno (1,2,3-cd) pyrene	1.67	1.74		mg/kg wet	104%	54 - 119	7070253	07/07/07 16:46
Isophorone	1.67	1.53		mg/kg wet	92%	35 - 107	7070253	07/07/07 16:46
2-Methylnaphthalene	1.67	1.41		mg/kg wet	84%	48 - 110	7070253	07/07/07 16:46
2-Methylphenol	1.67	1.54		mg/kg wet	92%	54 - 116	7070253	07/07/07 16:46
3/4-Methylphenol	1.67	1.76		mg/kg wet	106%	56 - 131	7070253	07/07/07 16:46
Naphthalene	1.67	1.31		mg/kg wet	79%	44 - 102	7070253	07/07/07 16:46
3-Nitroaniline	1.67	1.64		mg/kg wet	99%	55 - 121	7070253	07/07/07 16:46
2-Nitroaniline	1.67	1.68		mg/kg wet	101%	58 - 119	7070253	07/07/07 16:46
4-Nitroaniline	1.67	1.66		mg/kg wet	99%	45 - 122	7070253	07/07/07 16:46
Nitrobenzene	1.67	1.38		mg/kg wet	83%	43 - 108	7070253	07/07/07 16:46
4-Nitrophenol	1.67	1.57		mg/kg wet	94%	27 - 155	7070253	07/07/07 16:46
2-Nitrophenol	1.67	1.37		mg/kg wet	82%	43 - 116	7070253	07/07/07 16:46
N-Nitrosodiphenylamine	1.67	1.85		mg/kg wet	111%	83 - 182	7070253	07/07/07 16:46
N-Nitrosodi-n-propylamine	1.67	1.57		mg/kg wet	94%	47 - 118	7070253	07/07/07 16:46
Pentachlorophenol	1.67	1.86		mg/kg wet	112%	17 - 146	7070253	07/07/07 16:46
Phenanthrene	1.67	1.66		mg/kg wet	100%	56 - 115	7070253	07/07/07 16:46
Phenol	1.67	1.46		mg/kg wet	88%	50 - 114	7070253	07/07/07 16:46
Pyrene	1.67	1.65		mg/kg wet	99%	55 - 124	7070253	07/07/07 16:46
Pyridine	1.67	1.26		mg/kg wet	76%	27 - 98	7070253	07/07/07 16:46
1,2,4-Trichlorobenzene	1.67	1.36		mg/kg wet	81%	43 - 103	7070253	07/07/07 16:46
1-Methylnaphthalene	1.68	1.34		mg/kg wet	80%	45 - 102	7070253	07/07/07 16:46
2,4,6-Trichlorophenol	1.67	1.53		mg/kg wet	92%	56 - 113	7070253	07/07/07 16:46
2,4,5-Trichlorophenol	1.67	1.69		mg/kg wet	101%	58 - 119	7070253	07/07/07 16:46
Surrogate: Terphenyl-d14	1.67	1.55			93%	49 - 123	7070253	07/07/07 16:46
Surrogate: 2,4,6-Tribromophenol	3.33	3.33			100%	26 - 116	7070253	07/07/07 16:46
Surrogate: Phenol-d5	3.35	2.76			82%	24 - 103	7070253	07/07/07 16:46
Surrogate: 2-Fluorobiphenyl	1.67	1.43			86%	30 - 93	7070253	07/07/07 16:46
Surrogate: 2-Fluorophenol	3.33	2.68			80%	27 - 93	7070253	07/07/07 16:46
Surrogate: Nitrobenzene-d5	1.67	1.26			76%	34 - 87	7070253	07/07/07 16:46
7071161-BS1								
Acenaphthene	1.67	1.84		mg/kg wet	110%	54 - 112	7071161	07/10/07 23:01
Acenaphthylene	1.67	1.86		mg/kg wet	112%	57 - 114	7071161	07/10/07 23:01
Anthracene	1.67	2.08	L	mg/kg wet	125%	60 - 121	7071161	07/10/07 23:01

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C								
7071161-BS1								
Benzo (a) anthracene	1.67	1.84		mg/kg wet	111%	58 - 116	7071161	07/10/07 23:01
Benzo (a) pyrene	1.67	1.93		mg/kg wet	116%	58 - 125	7071161	07/10/07 23:01
Benzo (b) fluoranthene	1.67	1.54		mg/kg wet	92%	51 - 122	7071161	07/10/07 23:01
Benzo (g,h,i) perylene	1.67	1.89		mg/kg wet	113%	52 - 118	7071161	07/10/07 23:01
Benzo (k) fluoranthene	1.67	2.28	L	mg/kg wet	137%	49 - 123	7071161	07/10/07 23:01
4-Bromophenyl phenyl ether	1.67	1.58		mg/kg wet	95%	50 - 101	7071161	07/10/07 23:01
Butyl benzyl phthalate	1.67	1.80		mg/kg wet	108%	55 - 131	7071161	07/10/07 23:01
Carbazole	1.67	2.00	L	mg/kg wet	120%	56 - 119	7071161	07/10/07 23:01
4-Chloro-3-methylphenol	1.67	1.79		mg/kg wet	107%	50 - 117	7071161	07/10/07 23:01
4-Chloroaniline	1.67	1.67		mg/kg wet	100%	47 - 106	7071161	07/10/07 23:01
Bis(2-chloroethoxy)methane	1.67	1.53		mg/kg wet	92%	48 - 106	7071161	07/10/07 23:01
Bis(2-chloroethyl)ether	1.67	1.48		mg/kg wet	89%	43 - 108	7071161	07/10/07 23:01
Bis(2-chloroisopropyl)ether	1.67	1.59		mg/kg wet	95%	47 - 112	7071161	07/10/07 23:01
2-Chloronaphthalene	1.67	1.79		mg/kg wet	107%	54 - 112	7071161	07/10/07 23:01
2-Chlorophenol	1.67	1.64		mg/kg wet	98%	52 - 109	7071161	07/10/07 23:01
4-Chlorophenyl phenyl ether	1.67	1.89	L	mg/kg wet	113%	54 - 111	7071161	07/10/07 23:01
Chrysene	1.67	1.82		mg/kg wet	109%	58 - 115	7071161	07/10/07 23:01
Dibenz (a,h) anthracene	1.67	1.90		mg/kg wet	114%	51 - 123	7071161	07/10/07 23:01
Dibenzofuran	1.67	1.94	L	mg/kg wet	116%	58 - 113	7071161	07/10/07 23:01
Di-n-butyl phthalate	1.67	1.91		mg/kg wet	115%	54 - 125	7071161	07/10/07 23:01
1,4-Dichlorobenzene	1.67	1.48		mg/kg wet	89%	41 - 107	7071161	07/10/07 23:01
1,2-Dichlorobenzene	1.68	1.55		mg/kg wet	92%	44 - 109	7071161	07/10/07 23:01
1,3-Dichlorobenzene	1.67	1.46		mg/kg wet	88%	42 - 106	7071161	07/10/07 23:01
3,3-Dichlorobenzidine	1.67	1.61		mg/kg wet	97%	44 - 120	7071161	07/10/07 23:01
2,4-Dichlorophenol	1.67	1.70		mg/kg wet	102%	47 - 115	7071161	07/10/07 23:01
Diethyl phthalate	1.67	1.87		mg/kg wet	112%	51 - 117	7071161	07/10/07 23:01
2,4-Dimethylphenol	1.67	1.92		mg/kg wet	115%	24 - 118	7071161	07/10/07 23:01
Dimethyl phthalate	1.67	1.89	L	mg/kg wet	114%	54 - 113	7071161	07/10/07 23:01
4,6-Dinitro-2-methylphenol	1.67	1.82		mg/kg wet	109%	28 - 135	7071161	07/10/07 23:01
2,4-Dinitrophenol	1.67	2.19		mg/kg wet	131%	10 - 161	7071161	07/10/07 23:01
2,6-Dinitrotoluene	1.67	1.92		mg/kg wet	115%	58 - 130	7071161	07/10/07 23:01
2,4-Dinitrotoluene	1.67	1.98		mg/kg wet	119%	59 - 128	7071161	07/10/07 23:01
Di-n-octyl phthalate	1.67	1.47		mg/kg wet	88%	48 - 131	7071161	07/10/07 23:01
Bis(2-ethylhexyl)phthalate	1.67	1.68		mg/kg wet	101%	40 - 131	7071161	07/10/07 23:01
Fluoranthene	1.67	1.99	L	mg/kg wet	120%	56 - 118	7071161	07/10/07 23:01
Fluorene	1.67	1.89		mg/kg wet	114%	56 - 114	7071161	07/10/07 23:01
Hexachlorobenzene	1.67	1.96		mg/kg wet	117%	56 - 119	7071161	07/10/07 23:01
Hexachlorobutadiene	1.67	1.81		mg/kg wet	109%	42 - 112	7071161	07/10/07 23:01
Hexachlorocyclopentadiene	1.67	1.70		mg/kg wet	102%	19 - 124	7071161	07/10/07 23:01
Hexachloroethane	1.67	1.73		mg/kg wet	104%	40 - 107	7071161	07/10/07 23:01
Indeno (1,2,3-cd) pyrene	1.67	1.94		mg/kg wet	116%	54 - 119	7071161	07/10/07 23:01

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C								
7071161-BS1								
Isophorone	1.67	1.52		mg/kg wet	91%	35 - 107	7071161	07/10/07 23:01
2-Methylnaphthalene	1.67	1.76		mg/kg wet	105%	48 - 110	7071161	07/10/07 23:01
2-Methylphenol	1.67	1.63		mg/kg wet	98%	54 - 116	7071161	07/10/07 23:01
3/4-Methylphenol	1.67	1.68		mg/kg wet	101%	56 - 131	7071161	07/10/07 23:01
Naphthalene	1.67	1.65		mg/kg wet	99%	44 - 102	7071161	07/10/07 23:01
3-Nitroaniline	1.67	2.00		mg/kg wet	120%	55 - 121	7071161	07/10/07 23:01
2-Nitroaniline	1.67	1.94		mg/kg wet	117%	58 - 119	7071161	07/10/07 23:01
4-Nitroaniline	1.67	2.01		mg/kg wet	121%	45 - 122	7071161	07/10/07 23:01
Nitrobenzene	1.67	1.55		mg/kg wet	93%	43 - 108	7071161	07/10/07 23:01
4-Nitrophenol	1.67	2.06		mg/kg wet	124%	27 - 155	7071161	07/10/07 23:01
2-Nitrophenol	1.67	1.63		mg/kg wet	98%	43 - 116	7071161	07/10/07 23:01
N-Nitrosodiphenylamine	1.67	2.08		mg/kg wet	125%	83 - 182	7071161	07/10/07 23:01
N-Nitrosodi-n-propylamine	1.67	1.65		mg/kg wet	99%	47 - 118	7071161	07/10/07 23:01
Pentachlorophenol	1.67	2.14		mg/kg wet	128%	17 - 146	7071161	07/10/07 23:01
Phenanthrene	1.67	1.87		mg/kg wet	112%	56 - 115	7071161	07/10/07 23:01
Phenol	1.67	1.54		mg/kg wet	93%	50 - 114	7071161	07/10/07 23:01
Pyrene	1.67	1.74		mg/kg wet	105%	55 - 124	7071161	07/10/07 23:01
Pyridine	1.67	<0.0960	L2	mg/kg wet	0%	27 - 98	7071161	07/10/07 23:01
1,2,4-Trichlorobenzene	1.67	1.53		mg/kg wet	92%	43 - 103	7071161	07/10/07 23:01
1-Methylnaphthalene	1.68	1.46		mg/kg wet	87%	45 - 102	7071161	07/10/07 23:01
2,4,6-Trichlorophenol	1.67	1.88		mg/kg wet	113%	56 - 113	7071161	07/10/07 23:01
2,4,5-Trichlorophenol	1.67	1.93		mg/kg wet	116%	58 - 119	7071161	07/10/07 23:01
Surrogate: Terphenyl-d14	1.67	1.74			104%	49 - 123	7071161	07/10/07 23:01
Surrogate: 2,4,6-Tribromophenol	3.33	4.17	Z10		125%	26 - 116	7071161	07/10/07 23:01
Surrogate: Phenol-d5	3.35	3.12			93%	24 - 103	7071161	07/10/07 23:01
Surrogate: 2-Fluorobiphenyl	1.67	1.64	Z10		99%	30 - 93	7071161	07/10/07 23:01
Surrogate: 2-Fluorophenol	3.33	2.69			81%	27 - 93	7071161	07/10/07 23:01
Surrogate: Nitrobenzene-d5	1.67	1.63	Z10		98%	34 - 87	7071161	07/10/07 23:01

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
7065534-BSD1												
Arsenic		20.0		mg/kg wet	20.0	100%	80 - 120	0.3	20	7065534		07/06/07 09:53
Barium		419		mg/kg wet	400	105%	80 - 120	0.05	20	7065534		07/06/07 09:53
Cadmium		20.8		mg/kg wet	20.0	104%	80 - 120	0.1	20	7065534		07/06/07 09:53
Chromium		41.1		mg/kg wet	40.0	103%	80 - 120	0.05	20	7065534		07/06/07 09:53
Lead		101		mg/kg wet	100	101%	80 - 120	0.08	20	7065534		07/06/07 09:53
Selenium		19.6		mg/kg wet	20.0	98%	80 - 120	2	20	7065534		07/06/07 09:53
Silver		10.7		mg/kg wet	10.0	107%	75 - 125	2	20	7065534		07/06/07 09:53
7065535-BSD1												
Arsenic		18.8		mg/kg wet	20.0	94%	80 - 120	2	20	7065535		07/02/07 19:03
Barium		397		mg/kg wet	400	99%	80 - 120	0.6	20	7065535		07/02/07 19:03
Cadmium		19.6		mg/kg wet	20.0	98%	80 - 120	1	20	7065535		07/02/07 19:03
Chromium		39.8		mg/kg wet	40.0	99%	80 - 120	1	20	7065535		07/02/07 19:03
Lead		96.0		mg/kg wet	100	96%	80 - 120	2	20	7065535		07/02/07 19:03
Selenium		18.8		mg/kg wet	20.0	94%	80 - 120	8	20	7065535		07/02/07 19:03
Silver		9.86		mg/kg wet	10.0	99%	75 - 125	1	20	7065535		07/02/07 19:03
7070052-BSD1												
Arsenic		0.0510		mg/L	0.0500	102%	80 - 120	2	20	7070052		07/03/07 15:02
Barium		2.11		mg/L	2.00	105%	80 - 120	0.5	20	7070052		07/03/07 15:02
Cadmium		0.0556		mg/L	0.0500	111%	80 - 120	0.7	20	7070052		07/03/07 15:02
Chromium		0.216		mg/L	0.200	108%	80 - 120	1	20	7070052		07/03/07 15:02
Lead		0.0492		mg/L	0.0500	98%	80 - 120	2	20	7070052		07/03/07 15:02
Selenium		0.0540		mg/L	0.0500	108%	80 - 120	2	20	7070052		07/03/07 15:02
Silver		0.0499		mg/L	0.0500	100%	80 - 120	0.8	20	7070052		07/03/07 15:02
7070096-BSD1												
Arsenic		19.6		mg/kg wet	20.0	98%	80 - 120	0.4	20	7070096		07/02/07 14:28
Barium		403		mg/kg wet	400	101%	80 - 120	2	20	7070096		07/02/07 14:28
Cadmium		21.2		mg/kg wet	20.0	106%	80 - 120	1	20	7070096		07/02/07 14:28
Chromium		41.6		mg/kg wet	40.0	104%	80 - 120	1	20	7070096		07/02/07 14:28
Lead		101		mg/kg wet	100	101%	80 - 120	2	20	7070096		07/02/07 14:28
Selenium		19.2		mg/kg wet	20.0	96%	80 - 120	3	20	7070096		07/02/07 14:28
Silver		9.98		mg/kg wet	10.0	100%	75 - 125	1	20	7070096		07/02/07 14:28
Dissolved Metals by EPA Method 6010B												
7070058-BSD1												
Arsenic		0.0532		mg/L	0.0500	106%	80 - 120	3	20	7070058		07/02/07 14:27
Barium		2.04		mg/L	2.00	102%	80 - 120	1	20	7070058		07/02/07 14:27
Cadmium		0.0533		mg/L	0.0500	107%	80 - 120	5	20	7070058		07/02/07 14:27
Chromium		0.208		mg/L	0.200	104%	80 - 120	1	20	7070058		07/02/07 14:27
Lead		0.0489		mg/L	0.0500	98%	80 - 120	3	20	7070058		07/02/07 14:27

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Dissolved Metals by EPA Method 6010B												
7070058-BSD1												
Selenium		0.0439		mg/L	0.0500	88%	80 - 120	15	20	7070058		07/02/07 14:27
Silver		0.0997		mg/L	0.100	100%	80 - 120	0.2	20	7070058		07/02/07 14:27
Mercury by EPA Methods 7470A/7471A												
7070075-BSD1												
Mercury		0.158		mg/kg wet	0.167	95%	78 - 120	10	26	7070075		07/06/07 08:26
7070076-BSD1												
Mercury		0.177		mg/kg wet	0.167	106%	78 - 120	4	26	7070076		07/05/07 09:06
7070078-BSD1												
Mercury		0.182		mg/kg wet	0.167	109%	78 - 120	8	26	7070078		07/05/07 11:21
7070081-BSD1												
Mercury		0.00103		mg/L	0.00100	103%	78 - 124	0	22	7070081		07/05/07 08:29
Dissolved Mercury by EPA Methods 7470A/7471A												
7070083-BSD1												
Mercury		0.00105		mg/L	0.00100	105%	78 - 124	7	22	7070083		07/05/07 11:24
Organochlorine Pesticides by EPA Method 8081A												
7065631-BSD1												
Aldrin		0.0147		mg/kg wet	0.0167	88%	50 - 131	5	50	7065631		07/06/07 14:07
delta-BHC		0.0127		mg/kg wet	0.0167	76%	48 - 130	3	50	7065631		07/06/07 14:07
alpha-BHC		0.0147		mg/kg wet	0.0167	88%	55 - 131	5	50	7065631		07/06/07 14:07
beta-BHC		0.0150		mg/kg wet	0.0167	90%	56 - 143	2	50	7065631		07/06/07 14:07
gamma-BHC (Lindane)		0.0143		mg/kg wet	0.0167	86%	53 - 132	2	50	7065631		07/06/07 14:07
alpha-Chlordane		0.0150		mg/kg wet	0.0167	90%	59 - 132	5	50	7065631		07/06/07 14:07
gamma-Chlordane		0.0143		mg/kg wet	0.0167	86%	53 - 135	5	50	7065631		07/06/07 14:07
4,4'-DDD		0.0163		mg/kg wet	0.0167	98%	49 - 138	9	50	7065631		07/06/07 14:07
4,4'-DDE		0.0193		mg/kg wet	0.0167	116%	49 - 143	2	50	7065631		07/06/07 14:07
4,4'-DDT		0.0160		mg/kg wet	0.0167	96%	53 - 136	6	50	7065631		07/06/07 14:07
Dieldrin		0.0150		mg/kg wet	0.0167	90%	57 - 132	2	50	7065631		07/06/07 14:07
Endosulfan I		0.0133		mg/kg wet	0.0167	80%	54 - 132	5	50	7065631		07/06/07 14:07
Endosulfan II		0.0150		mg/kg wet	0.0167	90%	50 - 136	5	50	7065631		07/06/07 14:07
Endosulfan sulfate		0.0150		mg/kg wet	0.0167	90%	58 - 136	5	50	7065631		07/06/07 14:07
Endrin		0.0153		mg/kg wet	0.0167	92%	52 - 141	2	50	7065631		07/06/07 14:07
Endrin aldehyde		0.0137		mg/kg wet	0.0167	82%	38 - 139	5	50	7065631		07/06/07 14:07
Endrin ketone		0.0150		mg/kg wet	0.0167	90%	51 - 144	5	50	7065631		07/06/07 14:07
Heptachlor		0.0147		mg/kg wet	0.0167	88%	54 - 136	2	50	7065631		07/06/07 14:07
Heptachlor epoxide		0.0150		mg/kg wet	0.0167	90%	52 - 142	5	50	7065631		07/06/07 14:07
Methoxychlor		0.0160		mg/kg wet	0.0167	96%	54 - 144	4	50	7065631		07/06/07 14:07

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A												
7065631-BSD1												
Surrogate: Tetrachloro-meta-xylene		0.0320		mg/kg wet	0.0333	96%	27 - 165			7065631		07/06/07 14:07
Surrogate: Decachlorobiphenyl		0.0410		mg/kg wet	0.0333	123%	37 - 171			7065631		07/06/07 14:07
7070124-BSD1												
Aldrin		0.830		ug/L	1.00	83%	43 - 127	10	50	7070124		07/05/07 22:39
delta-BHC		0.850		ug/L	1.00	85%	31 - 150	7	50	7070124		07/05/07 22:39
alpha-BHC		1.00		ug/L	1.00	100%	61 - 134	7	50	7070124		07/05/07 22:39
beta-BHC		0.930		ug/L	1.00	93%	62 - 134	6	50	7070124		07/05/07 22:39
gamma-BHC (Lindane)		0.970		ug/L	1.00	97%	61 - 133	7	50	7070124		07/05/07 22:39
alpha-Chlordane		0.940		ug/L	1.00	94%	54 - 132	7	50	7070124		07/05/07 22:39
gamma-Chlordane		0.900		ug/L	1.00	90%	54 - 128	8	50	7070124		07/05/07 22:39
4,4'-DDD		1.05		ug/L	1.00	105%	51 - 146	7	50	7070124		07/05/07 22:39
4,4'-DDE		1.14		ug/L	1.00	114%	55 - 136	6	50	7070124		07/05/07 22:39
4,4'-DDT		1.03		ug/L	1.00	103%	53 - 134	6	50	7070124		07/05/07 22:39
Dieldrin		0.980		ug/L	1.00	98%	59 - 136	6	50	7070124		07/05/07 22:39
Endosulfan I		0.850		ug/L	1.00	85%	57 - 131	6	50	7070124		07/05/07 22:39
Endosulfan II		0.930		ug/L	1.00	93%	58 - 133	6	50	7070124		07/05/07 22:39
Endosulfan sulfate		0.930		ug/L	1.00	93%	51 - 142	6	50	7070124		07/05/07 22:39
Endrin		1.00		ug/L	1.00	100%	60 - 138	6	50	7070124		07/05/07 22:39
Endrin aldehyde		0.810		ug/L	1.00	81%	51 - 130	5	50	7070124		07/05/07 22:39
Endrin ketone		0.890		ug/L	1.00	89%	50 - 147	5	50	7070124		07/05/07 22:39
Heptachlor		0.860		ug/L	1.00	86%	46 - 132	8	50	7070124		07/05/07 22:39
Heptachlor epoxide		0.940		ug/L	1.00	94%	57 - 136	7	50	7070124		07/05/07 22:39
Methoxychlor		0.940		ug/L	1.00	94%	48 - 146	4	50	7070124		07/05/07 22:39
Surrogate: Tetrachloro-meta-xylene		1.88		ug/L	2.00	94%	46 - 127			7070124		07/05/07 22:39
Surrogate: Decachlorobiphenyl		1.91		ug/L	2.00	96%	25 - 144			7070124		07/05/07 22:39
7070488-BSD1												
Aldrin		0.0193		mg/kg wet	0.0167	116%	50 - 131	34	50	7070488		07/08/07 09:28
delta-BHC		0.0160		mg/kg wet	0.0167	96%	48 - 130	18	50	7070488		07/08/07 09:28
alpha-BHC		0.0170		mg/kg wet	0.0167	102%	55 - 131	22	50	7070488		07/08/07 09:28
beta-BHC		0.0203		mg/kg wet	0.0167	122%	56 - 143	24	50	7070488		07/08/07 09:28
gamma-BHC (Lindane)		0.0173		mg/kg wet	0.0167	104%	53 - 132	19	50	7070488		07/08/07 09:28
alpha-Chlordane		0.0177		mg/kg wet	0.0167	106%	59 - 132	19	50	7070488		07/08/07 09:28
gamma-Chlordane		0.0177		mg/kg wet	0.0167	106%	53 - 135	21	50	7070488		07/08/07 09:28
4,4'-DDD		0.0213		mg/kg wet	0.0167	128%	49 - 138	19	50	7070488		07/08/07 09:28
4,4'-DDE		0.0193		mg/kg wet	0.0167	116%	49 - 143	30	50	7070488		07/08/07 09:28
4,4'-DDT		0.0163		mg/kg wet	0.0167	98%	53 - 136	23	50	7070488		07/08/07 09:28
Dieldrin		0.0177		mg/kg wet	0.0167	106%	57 - 132	16	50	7070488		07/08/07 09:28
Endosulfan I		0.0150		mg/kg wet	0.0167	90%	54 - 132	20	50	7070488		07/08/07 09:28
Endosulfan II		0.0173		mg/kg wet	0.0167	104%	50 - 136	17	50	7070488		07/08/07 09:28
Endosulfan sulfate		0.0190		mg/kg wet	0.0167	114%	58 - 136	30	50	7070488		07/08/07 09:28

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A												
7070488-BSD1												
Endrin		0.0173		mg/kg wet	0.0167	104%	52 - 141	14	50	7070488		07/08/07 09:28
Endrin aldehyde		0.0180		mg/kg wet	0.0167	108%	38 - 139	30	50	7070488		07/08/07 09:28
Endrin ketone		0.0190		mg/kg wet	0.0167	114%	51 - 144	26	50	7070488		07/08/07 09:28
Heptachlor		0.0177		mg/kg wet	0.0167	106%	54 - 136	28	50	7070488		07/08/07 09:28
Heptachlor epoxide		0.0187		mg/kg wet	0.0167	112%	52 - 142	26	50	7070488		07/08/07 09:28
Methoxychlor		0.0197		mg/kg wet	0.0167	118%	54 - 144	36	50	7070488		07/08/07 09:28
Surrogate: Tetrachloro-meta-xylene		0.0393		mg/kg wet	0.0333	118%	27 - 165			7070488		07/08/07 09:28
Surrogate: Decachlorobiphenyl		0.0460		mg/kg wet	0.0333	138%	37 - 171			7070488		07/08/07 09:28
Chlorinated Herbicides by EPA Method 8151A												
7065630-BSD1												
2,4-D		0.146		mg/kg wet	0.167	88%	28 - 144	3	50	7065630		07/06/07 17:35
2,4,5-T		0.155		mg/kg wet	0.167	93%	10 - 170	4	50	7065630		07/06/07 17:35
2,4,5-TP (Silvex)		0.136		mg/kg wet	0.167	81%	28 - 137	6	50	7065630		07/06/07 17:35
Surrogate: Dichloroacetic Acid		0.119		mg/kg wet	0.167	71%	27 - 162			7065630		07/06/07 17:35
7070235-BSD1												
2,4-D		0.169		mg/kg wet	0.167	101%	28 - 144	10	50	7070235		07/09/07 13:42
2,4,5-T		0.198		mg/kg wet	0.167	119%	10 - 170	17	50	7070235		07/09/07 13:42
2,4,5-TP (Silvex)		0.182		mg/kg wet	0.167	109%	28 - 137	15	50	7070235		07/09/07 13:42
Surrogate: Dichloroacetic Acid		0.0857		mg/kg wet	0.167	51%	27 - 162			7070235		07/09/07 13:42
7070741-BSD1												
2,4-D		0.140		mg/kg wet	0.167	84%	28 - 144	8	50	7070741		07/11/07 01:19
2,4,5-T		0.154		mg/kg wet	0.167	92%	10 - 170	7	50	7070741		07/11/07 01:19
2,4,5-TP (Silvex)		0.123		mg/kg wet	0.167	74%	28 - 137	11	50	7070741		07/11/07 01:19
Surrogate: Dichloroacetic Acid		0.115		mg/kg wet	0.167	69%	27 - 162			7070741		07/11/07 01:19
Volatile Organic Compounds by EPA Method 8260B												
7065291-BSD1												
Acetone		248		ug/kg	250	99%	47 - 153	10	50	7065291		07/05/07 04:13
Benzene		52.9		ug/kg	50.0	106%	78 - 123	1	42	7065291		07/05/07 04:13
Bromobenzene		46.8		ug/kg	50.0	94%	65 - 133	2	48	7065291		07/05/07 04:13
Bromochloromethane		52.7		ug/kg	50.0	105%	74 - 133	3	46	7065291		07/05/07 04:13
Bromodichloromethane		51.6		ug/kg	50.0	103%	73 - 127	1	49	7065291		07/05/07 04:13
Bromoform		48.2		ug/kg	50.0	96%	61 - 136	3	45	7065291		07/05/07 04:13
Bromomethane		44.4		ug/kg	50.0	89%	44 - 165	2	40	7065291		07/05/07 04:13
2-Butanone		256		ug/kg	250	103%	58 - 139	10	40	7065291		07/05/07 04:13
sec-Butylbenzene		47.3		ug/kg	50.0	95%	73 - 134	0.06	50	7065291		07/05/07 04:13
n-Butylbenzene		43.9		ug/kg	50.0	88%	67 - 140	4	50	7065291		07/05/07 04:13
tert-Butylbenzene		49.0		ug/kg	50.0	98%	74 - 132	0.9	50	7065291		07/05/07 04:13
Carbon disulfide		53.1		ug/kg	50.0	106%	64 - 127	4	42	7065291		07/05/07 04:13

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7065291-BSD1												
Carbon Tetrachloride		50.6		ug/kg	50.0	101%	72 - 136	0.8	45	7065291		07/05/07 04:13
Chlorobenzene		49.4		ug/kg	50.0	99%	80 - 124	0.7	41	7065291		07/05/07 04:13
Chlorodibromomethane		53.7		ug/kg	50.0	107%	74 - 132	3	50	7065291		07/05/07 04:13
Chloroethane		49.5		ug/kg	50.0	99%	58 - 143	3	45	7065291		07/05/07 04:13
Chloroform		51.0		ug/kg	50.0	102%	77 - 125	2	41	7065291		07/05/07 04:13
Chloromethane		39.5		ug/kg	50.0	79%	46 - 140	2	41	7065291		07/05/07 04:13
2-Chlorotoluene		52.2		ug/kg	50.0	104%	75 - 130	4	50	7065291		07/05/07 04:13
4-Chlorotoluene		44.9		ug/kg	50.0	90%	73 - 131	4	50	7065291		07/05/07 04:13
1,2-Dibromo-3-chloropropane		49.0		ug/kg	50.0	98%	58 - 139	1	47	7065291		07/05/07 04:13
1,2-Dibromoethane (EDB)		52.9		ug/kg	50.0	106%	79 - 129	5	50	7065291		07/05/07 04:13
Dibromomethane		52.6		ug/kg	50.0	105%	75 - 129	2	46	7065291		07/05/07 04:13
1,4-Dichlorobenzene		41.3		ug/kg	50.0	83%	70 - 132	3	50	7065291		07/05/07 04:13
1,3-Dichlorobenzene		43.7		ug/kg	50.0	87%	72 - 134	3	50	7065291		07/05/07 04:13
1,2-Dichlorobenzene		46.4		ug/kg	50.0	93%	77 - 133	1	50	7065291		07/05/07 04:13
Dichlorodifluoromethane		42.2		ug/kg	50.0	84%	22 - 155	10	48	7065291		07/05/07 04:13
1,1-Dichloroethane		50.9		ug/kg	50.0	102%	76 - 126	3	40	7065291		07/05/07 04:13
1,2-Dichloroethane		48.6		ug/kg	50.0	97%	73 - 131	3	42	7065291		07/05/07 04:13
cis-1,2-Dichloroethene		51.0		ug/kg	50.0	102%	77 - 125	2	41	7065291		07/05/07 04:13
1,1-Dichloroethene		53.8		ug/kg	50.0	108%	72 - 128	4	40	7065291		07/05/07 04:13
trans-1,2-Dichloroethene		53.0		ug/kg	50.0	106%	76 - 127	3	41	7065291		07/05/07 04:13
1,3-Dichloropropane		53.0		ug/kg	50.0	106%	77 - 127	1	50	7065291		07/05/07 04:13
1,2-Dichloropropane		50.6		ug/kg	50.0	101%	73 - 124	1	42	7065291		07/05/07 04:13
2,2-Dichloropropane		49.3		ug/kg	50.0	99%	55 - 142	2	45	7065291		07/05/07 04:13
cis-1,3-Dichloropropene		53.3		ug/kg	50.0	107%	76 - 128	3	50	7065291		07/05/07 04:13
trans-1,3-Dichloropropene		44.7		ug/kg	50.0	89%	71 - 131	2	50	7065291		07/05/07 04:13
1,1-Dichloropropene		50.6		ug/kg	50.0	101%	79 - 134	3	44	7065291		07/05/07 04:13
Ethylbenzene		58.8		ug/kg	50.0	118%	78 - 127	16	42	7065291		07/05/07 04:13
Hexachlorobutadiene		45.4		ug/kg	50.0	91%	65 - 140	7	50	7065291		07/05/07 04:13
2-Hexanone		260		ug/kg	250	104%	58 - 141	8	43	7065291		07/05/07 04:13
Isopropylbenzene		47.9		ug/kg	50.0	96%	73 - 123	1	44	7065291		07/05/07 04:13
p-Isopropyltoluene		43.0		ug/kg	50.0	86%	70 - 130	2	50	7065291		07/05/07 04:13
Methyl tert-Butyl Ether		49.7		ug/kg	50.0	99%	62 - 129	4	47	7065291		07/05/07 04:13
Methylene Chloride		50.5		ug/kg	50.0	101%	73 - 131	3	43	7065291		07/05/07 04:13
4-Methyl-2-pentanone		265		ug/kg	250	106%	61 - 138	8	41	7065291		07/05/07 04:13
Naphthalene		49.7		ug/kg	50.0	99%	61 - 145	6	50	7065291		07/05/07 04:13
n-Propylbenzene		53.2		ug/kg	50.0	106%	71 - 135	6	50	7065291		07/05/07 04:13
Styrene		52.3		ug/kg	50.0	105%	79 - 140	1	50	7065291		07/05/07 04:13
1,1,1,2-Tetrachloroethane		53.2		ug/kg	50.0	106%	78 - 131	0.5	50	7065291		07/05/07 04:13
1,1,2,2-Tetrachloroethane		51.2		ug/kg	50.0	102%	69 - 134	4	50	7065291		07/05/07 04:13
Tetrachloroethene		48.4		ug/kg	50.0	97%	75 - 130	5	50	7065291		07/05/07 04:13
Toluene		50.4		ug/kg	50.0	101%	77 - 124	0.5	50	7065291		07/05/07 04:13

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7065291-BSD1												
1,2,3-Trichlorobenzene		39.6		ug/kg	50.0	79%	57 - 151	3	48	7065291		07/05/07 04:13
1,2,4-Trichlorobenzene		37.8		ug/kg	50.0	76%	51 - 159	1	48	7065291		07/05/07 04:13
1,1,2-Trichloroethane		53.1		ug/kg	50.0	106%	76 - 128	0.9	50	7065291		07/05/07 04:13
1,1,1-Trichloroethane		49.7		ug/kg	50.0	99%	75 - 131	4	50	7065291		07/05/07 04:13
Trichloroethene		51.3		ug/kg	50.0	103%	77 - 129	2	50	7065291		07/05/07 04:13
Trichlorofluoromethane		44.7		ug/kg	50.0	89%	63 - 136	2	50	7065291		07/05/07 04:13
1,2,3-Trichloropropane		45.0		ug/kg	50.0	90%	40 - 160	6	49	7065291		07/05/07 04:13
1,3,5-Trimethylbenzene		52.6		ug/kg	50.0	105%	74 - 133	11	50	7065291		07/05/07 04:13
1,2,4-Trimethylbenzene		73.7	L1	ug/kg	50.0	147%	72 - 132	44	50	7065291		07/05/07 04:13
Vinyl chloride		49.2		ug/kg	50.0	98%	65 - 135	3	41	7065291		07/05/07 04:13
Xylenes, total		178		ug/kg	150	119%	77 - 128	18	50	7065291		07/05/07 04:13
Surrogate: 1,2-Dichloroethane-d4		45.9		ug/kg	50.0	92%	54 - 145			7065291		07/05/07 04:13
Surrogate: Dibromofluoromethane		48.9		ug/kg	50.0	98%	67 - 129			7065291		07/05/07 04:13
Surrogate: Toluene-d8		50.9		ug/kg	50.0	102%	66 - 142			7065291		07/05/07 04:13
Surrogate: 4-Bromofluorobenzene		51.6		ug/kg	50.0	103%	68 - 150			7065291		07/05/07 04:13
7065514-BSD1												
Acetone		202		ug/kg	250	81%	47 - 153	27	50	7065514		07/06/07 04:21
Benzene		41.8		ug/kg	50.0	84%	78 - 123	15	42	7065514		07/06/07 04:21
Bromobenzene		39.3		ug/kg	50.0	79%	65 - 133	20	48	7065514		07/06/07 04:21
Bromochloromethane		45.7		ug/kg	50.0	91%	74 - 133	14	46	7065514		07/06/07 04:21
Bromodichloromethane		43.3		ug/kg	50.0	87%	73 - 127	16	49	7065514		07/06/07 04:21
Bromoform		45.1		ug/kg	50.0	90%	61 - 136	20	45	7065514		07/06/07 04:21
Bromomethane		58.8		ug/kg	50.0	118%	44 - 165	16	40	7065514		07/06/07 04:21
2-Butanone		222		ug/kg	250	89%	58 - 139	23	40	7065514		07/06/07 04:21
sec-Butylbenzene		40.9		ug/kg	50.0	82%	73 - 134	19	50	7065514		07/06/07 04:21
n-Butylbenzene		40.7		ug/kg	50.0	81%	67 - 140	23	50	7065514		07/06/07 04:21
tert-Butylbenzene		40.6		ug/kg	50.0	81%	74 - 132	18	50	7065514		07/06/07 04:21
Carbon disulfide		42.2		ug/kg	50.0	84%	64 - 127	15	42	7065514		07/06/07 04:21
Carbon Tetrachloride		43.5		ug/kg	50.0	87%	72 - 136	15	45	7065514		07/06/07 04:21
Chlorobenzene		40.5		ug/kg	50.0	81%	80 - 124	18	41	7065514		07/06/07 04:21
Chlorodibromomethane		41.8		ug/kg	50.0	84%	74 - 132	19	50	7065514		07/06/07 04:21
Chloroethane		45.3		ug/kg	50.0	91%	58 - 143	16	45	7065514		07/06/07 04:21
Chloroform		42.5		ug/kg	50.0	85%	77 - 125	15	41	7065514		07/06/07 04:21
Chloromethane		44.6		ug/kg	50.0	89%	46 - 140	4	41	7065514		07/06/07 04:21
2-Chlorotoluene		39.5		ug/kg	50.0	79%	75 - 130	20	50	7065514		07/06/07 04:21
4-Chlorotoluene		38.7		ug/kg	50.0	77%	73 - 131	22	50	7065514		07/06/07 04:21
1,2-Dibromo-3-chloropropane		40.4		ug/kg	50.0	81%	58 - 139	27	47	7065514		07/06/07 04:21
1,2-Dibromoethane (EDB)		42.5		ug/kg	50.0	85%	79 - 129	19	50	7065514		07/06/07 04:21
Dibromomethane		44.4		ug/kg	50.0	89%	75 - 129	16	46	7065514		07/06/07 04:21
1,4-Dichlorobenzene		39.0		ug/kg	50.0	78%	70 - 132	25	50	7065514		07/06/07 04:21

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7065514-BSD1												
1,3-Dichlorobenzene		39.4		ug/kg	50.0	79%	72 - 134	24	50	7065514		07/06/07 04:21
1,2-Dichlorobenzene		39.7		ug/kg	50.0	79%	77 - 133	24	50	7065514		07/06/07 04:21
Dichlorodifluoromethane		29.9		ug/kg	50.0	60%	22 - 155	16	48	7065514		07/06/07 04:21
1,1-Dichloroethane		44.1		ug/kg	50.0	88%	76 - 126	13	40	7065514		07/06/07 04:21
1,2-Dichloroethane		42.2		ug/kg	50.0	84%	73 - 131	16	42	7065514		07/06/07 04:21
cis-1,2-Dichloroethene		42.4		ug/kg	50.0	85%	77 - 125	13	41	7065514		07/06/07 04:21
1,1-Dichloroethene		44.0		ug/kg	50.0	88%	72 - 128	16	40	7065514		07/06/07 04:21
trans-1,2-Dichloroethene		43.5		ug/kg	50.0	87%	76 - 127	14	41	7065514		07/06/07 04:21
1,3-Dichloropropane		40.7		ug/kg	50.0	81%	77 - 127	18	50	7065514		07/06/07 04:21
1,2-Dichloropropane		40.1		ug/kg	50.0	80%	73 - 124	15	42	7065514		07/06/07 04:21
2,2-Dichloropropane		41.2		ug/kg	50.0	82%	55 - 142	8	45	7065514		07/06/07 04:21
cis-1,3-Dichloropropene		39.6		ug/kg	50.0	79%	76 - 128	17	50	7065514		07/06/07 04:21
trans-1,3-Dichloropropene		38.1		ug/kg	50.0	76%	71 - 131	18	50	7065514		07/06/07 04:21
1,1-Dichloropropene		42.7		ug/kg	50.0	85%	79 - 134	16	44	7065514		07/06/07 04:21
Ethylbenzene		40.6		ug/kg	50.0	81%	78 - 127	18	42	7065514		07/06/07 04:21
Hexachlorobutadiene		46.9		ug/kg	50.0	94%	65 - 140	18	50	7065514		07/06/07 04:21
2-Hexanone		212		ug/kg	250	85%	58 - 141	23	43	7065514		07/06/07 04:21
Isopropylbenzene		39.2		ug/kg	50.0	78%	73 - 123	18	44	7065514		07/06/07 04:21
p-Isopropyltoluene		40.0		ug/kg	50.0	80%	70 - 130	20	50	7065514		07/06/07 04:21
Methyl tert-Butyl Ether		39.9		ug/kg	50.0	80%	62 - 129	17	47	7065514		07/06/07 04:21
Methylene Chloride		41.4		ug/kg	50.0	83%	73 - 131	16	43	7065514		07/06/07 04:21
4-Methyl-2-pentanone		195		ug/kg	250	78%	61 - 138	23	41	7065514		07/06/07 04:21
Naphthalene		41.8		ug/kg	50.0	84%	61 - 145	32	50	7065514		07/06/07 04:21
n-Propylbenzene		39.4		ug/kg	50.0	79%	71 - 135	20	50	7065514		07/06/07 04:21
Styrene		44.7		ug/kg	50.0	89%	79 - 140	19	50	7065514		07/06/07 04:21
1,1,1,2-Tetrachloroethane		41.7		ug/kg	50.0	83%	78 - 131	16	50	7065514		07/06/07 04:21
1,1,2,2-Tetrachloroethane		41.4		ug/kg	50.0	83%	69 - 134	23	50	7065514		07/06/07 04:21
Tetrachloroethene		39.3		ug/kg	50.0	79%	75 - 130	20	50	7065514		07/06/07 04:21
Toluene		39.5		ug/kg	50.0	79%	77 - 124	17	50	7065514		07/06/07 04:21
1,2,3-Trichlorobenzene		41.5		ug/kg	50.0	83%	57 - 151	29	48	7065514		07/06/07 04:21
1,2,4-Trichlorobenzene		40.6		ug/kg	50.0	81%	51 - 159	33	48	7065514		07/06/07 04:21
1,1,2-Trichloroethane		40.7		ug/kg	50.0	81%	76 - 128	20	50	7065514		07/06/07 04:21
1,1,1-Trichloroethane		43.0		ug/kg	50.0	86%	75 - 131	14	50	7065514		07/06/07 04:21
Trichloroethene		42.5		ug/kg	50.0	85%	77 - 129	17	50	7065514		07/06/07 04:21
Trichlorofluoromethane		38.8		ug/kg	50.0	78%	63 - 136	15	50	7065514		07/06/07 04:21
1,2,3-Trichloropropane		35.7		ug/kg	50.0	71%	40 - 160	25	49	7065514		07/06/07 04:21
1,3,5-Trimethylbenzene		40.0		ug/kg	50.0	80%	74 - 133	20	50	7065514		07/06/07 04:21
1,2,4-Trimethylbenzene		39.5		ug/kg	50.0	79%	72 - 132	23	50	7065514		07/06/07 04:21
Vinyl chloride		37.7		ug/kg	50.0	75%	65 - 135	19	41	7065514		07/06/07 04:21
Xylenes, total		121		ug/kg	150	81%	77 - 128	19	50	7065514		07/06/07 04:21
Surrogate: 1,2-Dichloroethane-d4		49.4		ug/kg	50.0	99%	54 - 145			7065514		07/06/07 04:21

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7065514-BSD1												
Surrogate: Dibromofluoromethane		51.0		ug/kg	50.0	102%	67 - 129			7065514		07/06/07 04:21
Surrogate: Toluene-d8		49.5		ug/kg	50.0	99%	66 - 142			7065514		07/06/07 04:21
Surrogate: 4-Bromofluorobenzene		49.8		ug/kg	50.0	100%	68 - 150			7065514		07/06/07 04:21
7071029-BSD1												
Acetone		284		ug/L	250	114%	63 - 147	9	22	7071029		07/07/07 13:57
Benzene		50.4	R	ug/L	50.0	101%	78 - 125	20	15	7071029		07/07/07 13:57
Bromobenzene		50.0		ug/L	50.0	100%	71 - 142	0.6	17	7071029		07/07/07 13:57
Bromochloromethane		52.9		ug/L	50.0	106%	76 - 129	2	15	7071029		07/07/07 13:57
Bromodichloromethane		50.6		ug/L	50.0	101%	71 - 134	1	17	7071029		07/07/07 13:57
Bromoform		49.6		ug/L	50.0	99%	49 - 129	3	19	7071029		07/07/07 13:57
Bromomethane		57.6		ug/L	50.0	115%	42 - 154	0.9	41	7071029		07/07/07 13:57
2-Butanone		271		ug/L	250	109%	74 - 130	5	17	7071029		07/07/07 13:57
sec-Butylbenzene		56.3		ug/L	50.0	113%	78 - 129	2	21	7071029		07/07/07 13:57
n-Butylbenzene		56.7		ug/L	50.0	113%	68 - 138	0.3	23	7071029		07/07/07 13:57
tert-Butylbenzene		59.0		ug/L	50.0	118%	79 - 128	0.8	20	7071029		07/07/07 13:57
Carbon disulfide		49.6		ug/L	50.0	99%	65 - 122	2	50	7071029		07/07/07 13:57
Carbon Tetrachloride		56.5		ug/L	50.0	113%	62 - 142	2	18	7071029		07/07/07 13:57
Chlorobenzene		50.4		ug/L	50.0	101%	82 - 125	1	15	7071029		07/07/07 13:57
Chlorodibromomethane		47.6		ug/L	50.0	95%	67 - 135	3	18	7071029		07/07/07 13:57
Chloroethane		51.8		ug/L	50.0	104%	57 - 138	1	36	7071029		07/07/07 13:57
Chloroform		57.8		ug/L	50.0	116%	75 - 122	9	16	7071029		07/07/07 13:57
Chloromethane		40.7		ug/L	50.0	81%	31 - 147	0.05	46	7071029		07/07/07 13:57
2-Chlorotoluene		53.4		ug/L	50.0	107%	74 - 135	0.4	17	7071029		07/07/07 13:57
4-Chlorotoluene		54.4		ug/L	50.0	109%	74 - 133	0.5	16	7071029		07/07/07 13:57
1,2-Dibromo-3-chloropropane		53.9		ug/L	50.0	108%	45 - 140	0.2	20	7071029		07/07/07 13:57
1,2-Dibromoethane (EDB)		53.1		ug/L	50.0	106%	80 - 132	5	16	7071029		07/07/07 13:57
Dibromomethane		54.6		ug/L	50.0	109%	69 - 132	4	16	7071029		07/07/07 13:57
1,4-Dichlorobenzene		51.6		ug/L	50.0	103%	79 - 125	0.8	16	7071029		07/07/07 13:57
1,3-Dichlorobenzene		53.4		ug/L	50.0	107%	77 - 132	2	17	7071029		07/07/07 13:57
1,2-Dichlorobenzene		54.5		ug/L	50.0	109%	82 - 133	0.4	16	7071029		07/07/07 13:57
Dichlorodifluoromethane		36.5		ug/L	50.0	73%	34 - 120	0.4	21	7071029		07/07/07 13:57
1,1-Dichloroethane		54.0		ug/L	50.0	108%	79 - 120	2	17	7071029		07/07/07 13:57
1,2-Dichloroethane		54.3		ug/L	50.0	109%	64 - 134	1	19	7071029		07/07/07 13:57
cis-1,2-Dichloroethene		53.7		ug/L	50.0	107%	71 - 126	3	16	7071029		07/07/07 13:57
1,1-Dichloroethene		54.1		ug/L	50.0	108%	71 - 123	2	34	7071029		07/07/07 13:57
trans-1,2-Dichloroethene		54.1		ug/L	50.0	108%	74 - 127	1	21	7071029		07/07/07 13:57
1,3-Dichloropropane		47.5		ug/L	50.0	95%	80 - 128	6	16	7071029		07/07/07 13:57
1,2-Dichloropropane		48.6		ug/L	50.0	97%	73 - 120	2	15	7071029		07/07/07 13:57
2,2-Dichloropropane		60.0		ug/L	50.0	120%	25 - 156	0.1	16	7071029		07/07/07 13:57
cis-1,3-Dichloropropene		59.3		ug/L	50.0	119%	70 - 135	0.9	19	7071029		07/07/07 13:57

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7071029-BSD1												
trans-1,3-Dichloropropene		48.1		ug/L	50.0	96%	61 - 124	3	19	7071029		07/07/07 13:57
1,1-Dichloropropene		53.3		ug/L	50.0	107%	79 - 138	1	17	7071029		07/07/07 13:57
Ethylbenzene		53.1		ug/L	50.0	106%	73 - 134	0.6	15	7071029		07/07/07 13:57
Hexachlorobutadiene		60.9		ug/L	50.0	122%	58 - 145	2	35	7071029		07/07/07 13:57
2-Hexanone		261		ug/L	250	104%	72 - 136	4	18	7071029		07/07/07 13:57
Isopropylbenzene		54.0		ug/L	50.0	108%	74 - 121	2	17	7071029		07/07/07 13:57
p-Isopropyltoluene		56.3		ug/L	50.0	113%	70 - 133	2	21	7071029		07/07/07 13:57
Methyl tert-Butyl Ether		51.8		ug/L	50.0	104%	69 - 122	3	16	7071029		07/07/07 13:57
Methylene Chloride		47.2		ug/L	50.0	94%	75 - 127	0.8	19	7071029		07/07/07 13:57
4-Methyl-2-pentanone		235		ug/L	250	94%	77 - 132	1	18	7071029		07/07/07 13:57
Naphthalene		60.8		ug/L	50.0	122%	65 - 145	1	34	7071029		07/07/07 13:57
n-Propylbenzene		53.6		ug/L	50.0	107%	76 - 133	2	18	7071029		07/07/07 13:57
Styrene		60.1		ug/L	50.0	120%	80 - 145	0.03	22	7071029		07/07/07 13:57
1,1,1,2-Tetrachloroethane		57.3		ug/L	50.0	115%	72 - 136	2	16	7071029		07/07/07 13:57
1,1,2,2-Tetrachloroethane		49.8		ug/L	50.0	100%	71 - 137	0.7	16	7071029		07/07/07 13:57
Tetrachloroethene		50.3		ug/L	50.0	101%	70 - 131	4	20	7071029		07/07/07 13:57
Toluene		48.5		ug/L	50.0	97%	78 - 122	2	15	7071029		07/07/07 13:57
1,2,3-Trichlorobenzene		57.0		ug/L	50.0	114%	60 - 144	0.2	33	7071029		07/07/07 13:57
1,2,4-Trichlorobenzene		60.6		ug/L	50.0	121%	63 - 140	1	26	7071029		07/07/07 13:57
1,1,2-Trichloroethane		46.9		ug/L	50.0	94%	81 - 127	6	16	7071029		07/07/07 13:57
1,1,1-Trichloroethane		60.4		ug/L	50.0	121%	69 - 128	5	17	7071029		07/07/07 13:57
Trichloroethene		52.6		ug/L	50.0	105%	73 - 133	2	17	7071029		07/07/07 13:57
Trichlorofluoromethane		51.3		ug/L	50.0	103%	49 - 139	3	42	7071029		07/07/07 13:57
1,2,3-Trichloropropane		47.3		ug/L	50.0	95%	52 - 151	0.4	18	7071029		07/07/07 13:57
1,3,5-Trimethylbenzene		57.3		ug/L	50.0	115%	72 - 136	2	20	7071029		07/07/07 13:57
1,2,4-Trimethylbenzene		57.4		ug/L	50.0	115%	73 - 134	0.5	18	7071029		07/07/07 13:57
Vinyl chloride		44.4		ug/L	50.0	89%	54 - 137	2	50	7071029		07/07/07 13:57
Xylenes, total		164		ug/L	150	110%	79 - 130	2	16	7071029		07/07/07 13:57
Surrogate: 1,2-Dichloroethane-d4		52.5		ug/L	50.0	105%	62 - 142			7071029		07/07/07 13:57
Surrogate: Dibromofluoromethane		51.4		ug/L	50.0	103%	78 - 123			7071029		07/07/07 13:57
Surrogate: Toluene-d8		50.3		ug/L	50.0	101%	79 - 120			7071029		07/07/07 13:57
Surrogate: 4-Bromofluorobenzene		49.3		ug/L	50.0	99%	75 - 133			7071029		07/07/07 13:57
Semivolatile Organic Compounds by EPA Method 8270C												
7065633-BSD1												
Acenaphthene		2.44		mg/kg wet	3.33	73%	54 - 112	2	25	7065633		07/05/07 18:43
Acenaphthylene		2.40		mg/kg wet	3.33	72%	57 - 114	1	50	7065633		07/05/07 18:43
Anthracene		2.62		mg/kg wet	3.33	79%	60 - 121	0.4	50	7065633		07/05/07 18:43
Benzo (a) anthracene		2.53		mg/kg wet	3.33	76%	58 - 116	0.5	50	7065633		07/05/07 18:43
Benzo (a) pyrene		2.89		mg/kg wet	3.33	87%	58 - 125	1	50	7065633		07/05/07 18:43
Benzo (b) fluoranthene		3.39		mg/kg wet	3.33	102%	51 - 122	7	50	7065633		07/05/07 18:43

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7065633-BSD1												
Benzo (g,h,i) perylene		2.00		mg/kg wet	3.33	60%	52 - 118	11	50	7065633		07/05/07 18:43
Benzo (k) fluoranthene		2.28		mg/kg wet	3.33	68%	49 - 123	3	33	7065633		07/05/07 18:43
4-Bromophenyl phenyl ether		2.32		mg/kg wet	3.33	70%	50 - 101	0.5	50	7065633		07/05/07 18:43
Butyl benzyl phthalate		2.82		mg/kg wet	3.33	85%	55 - 131	2	50	7065633		07/05/07 18:43
Carbazole		2.62		mg/kg wet	3.33	79%	56 - 119	3	50	7065633		07/05/07 18:43
4-Chloro-3-methylphenol		2.16		mg/kg wet	3.33	65%	50 - 117	2	50	7065633		07/05/07 18:43
4-Chloroaniline		1.98		mg/kg wet	3.33	59%	47 - 106	2	25	7065633		07/05/07 18:43
Bis(2-chloroethoxy)methane		1.88		mg/kg wet	3.33	57%	48 - 106	1	27	7065633		07/05/07 18:43
Bis(2-chloroethyl)ether		2.14		mg/kg wet	3.33	64%	43 - 108	6	42	7065633		07/05/07 18:43
Bis(2-chloroisopropyl)ether		1.99		mg/kg wet	3.33	60%	47 - 112	7	50	7065633		07/05/07 18:43
2-Chloronaphthalene		2.36		mg/kg wet	3.33	71%	54 - 112	2	50	7065633		07/05/07 18:43
2-Chlorophenol		2.42		mg/kg wet	3.33	73%	52 - 109	3	30	7065633		07/05/07 18:43
4-Chlorophenyl phenyl ether		2.42		mg/kg wet	3.33	73%	54 - 111	0.4	27	7065633		07/05/07 18:43
Chrysene		2.58		mg/kg wet	3.33	77%	58 - 115	2	50	7065633		07/05/07 18:43
Dibenz (a,h) anthracene		2.25		mg/kg wet	3.33	67%	51 - 123	9	550	7065633		07/05/07 18:43
Dibenzofuran		2.53		mg/kg wet	3.33	76%	58 - 113	1	50	7065633		07/05/07 18:43
Di-n-butyl phthalate		2.69		mg/kg wet	3.33	81%	54 - 125	0.8	50	7065633		07/05/07 18:43
1,4-Dichlorobenzene		1.88		mg/kg wet	3.33	56%	41 - 107	8	40	7065633		07/05/07 18:43
1,2-Dichlorobenzene		2.04		mg/kg wet	3.37	60%	44 - 109	7	45	7065633		07/05/07 18:43
1,3-Dichlorobenzene		1.99		mg/kg wet	3.33	60%	42 - 106	7	39	7065633		07/05/07 18:43
3,3-Dichlorobenzidine		2.34		mg/kg wet	3.33	70%	44 - 120	3	36	7065633		07/05/07 18:43
2,4-Dichlorophenol		2.03		mg/kg wet	3.33	61%	47 - 115	0.7	28	7065633		07/05/07 18:43
Diethyl phthalate		2.51		mg/kg wet	3.33	75%	51 - 117	0.7	25	7065633		07/05/07 18:43
2,4-Dimethylphenol		2.02		mg/kg wet	3.33	61%	24 - 118	3	50	7065633		07/05/07 18:43
Dimethyl phthalate		2.47		mg/kg wet	3.33	74%	54 - 113	1	50	7065633		07/05/07 18:43
4,6-Dinitro-2-methylphenol		2.72		mg/kg wet	3.33	82%	28 - 135	0.6	32	7065633		07/05/07 18:43
2,4-Dinitrophenol		2.60		mg/kg wet	3.33	78%	10 - 161	3	47	7065633		07/05/07 18:43
2,6-Dinitrotoluene		2.67		mg/kg wet	3.33	80%	58 - 130	0.5	45	7065633		07/05/07 18:43
2,4-Dinitrotoluene		2.80		mg/kg wet	3.33	84%	59 - 128	0.7	44	7065633		07/05/07 18:43
Di-n-octyl phthalate		3.09		mg/kg wet	3.33	93%	48 - 131	6	50	7065633		07/05/07 18:43
Bis(2-ethylhexyl)phthalate		2.75		mg/kg wet	3.33	82%	40 - 131	3	50	7065633		07/05/07 18:43
Fluoranthene		2.63		mg/kg wet	3.33	79%	56 - 118	0.3	50	7065633		07/05/07 18:43
Fluorene		2.47		mg/kg wet	3.33	74%	56 - 114	0.6	50	7065633		07/05/07 18:43
Hexachlorobenzene		2.64		mg/kg wet	3.33	79%	56 - 119	0.5	23	7065633		07/05/07 18:43
Hexachlorobutadiene		1.80		mg/kg wet	3.33	54%	42 - 112	8	34	7065633		07/05/07 18:43
Hexachlorocyclopentadiene		1.65		mg/kg wet	3.33	49%	19 - 124	5	50	7065633		07/05/07 18:43
Hexachloroethane		1.90		mg/kg wet	3.33	57%	40 - 107	8	46	7065633		07/05/07 18:43
Indeno (1,2,3-cd) pyrene		2.17		mg/kg wet	3.33	65%	54 - 119	10	50	7065633		07/05/07 18:43
Isophorone		2.19		mg/kg wet	3.33	66%	35 - 107	0.3	33	7065633		07/05/07 18:43
2-Methylnaphthalene		1.87		mg/kg wet	3.33	56%	48 - 110	4	50	7065633		07/05/07 18:43
2-Methylphenol		2.43		mg/kg wet	3.33	73%	54 - 116	2	50	7065633		07/05/07 18:43

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7065633-BSD1												
3/4-Methylphenol		2.70		mg/kg wet	3.33	81%	56 - 131	4	50	7065633		07/05/07 18:43
Naphthalene		1.66		mg/kg wet	3.33	50%	44 - 102	9	50	7065633		07/05/07 18:43
3-Nitroaniline		2.46		mg/kg wet	3.33	74%	55 - 121	0.2	50	7065633		07/05/07 18:43
2-Nitroaniline		2.59		mg/kg wet	3.33	78%	58 - 119	0.9	50	7065633		07/05/07 18:43
4-Nitroaniline		2.66		mg/kg wet	3.33	80%	45 - 122	1	50	7065633		07/05/07 18:43
Nitrobenzene		1.78		mg/kg wet	3.33	54%	43 - 108	5	50	7065633		07/05/07 18:43
4-Nitrophenol		2.63		mg/kg wet	3.33	79%	27 - 155	7	50	7065633		07/05/07 18:43
2-Nitrophenol		1.95		mg/kg wet	3.33	58%	43 - 116	0.4	50	7065633		07/05/07 18:43
N-Nitrosodiphenylamine		2.86		mg/kg wet	3.33	86%	83 - 182	2	50	7065633		07/05/07 18:43
N-Nitrosodi-n-propylamine		2.26		mg/kg wet	3.33	68%	47 - 118	2	50	7065633		07/05/07 18:43
Pentachlorophenol		2.93		mg/kg wet	3.33	88%	17 - 146	1	50	7065633		07/05/07 18:43
Phenanthrene		2.53		mg/kg wet	3.33	76%	56 - 115	2	50	7065633		07/05/07 18:43
Phenol		2.46		mg/kg wet	3.33	74%	50 - 114	3	50	7065633		07/05/07 18:43
Pyrene		2.58		mg/kg wet	3.33	77%	55 - 124	4	50	7065633		07/05/07 18:43
Pyridine		2.07		mg/kg wet	3.33	62%	27 - 98	4	50	7065633		07/05/07 18:43
1,2,4-Trichlorobenzene		1.76		mg/kg wet	3.33	53%	43 - 103	5	33	7065633		07/05/07 18:43
1-Methylnaphthalene		1.83		mg/kg wet	3.37	54%	45 - 102	2	50	7065633		07/05/07 18:43
2,4,6-Trichlorophenol		2.58		mg/kg wet	3.33	77%	56 - 113	2	28	7065633		07/05/07 18:43
2,4,5-Trichlorophenol		2.74		mg/kg wet	3.33	82%	58 - 119	5	28	7065633		07/05/07 18:43
Surrogate: Terphenyl-d14		1.35		mg/kg wet	1.67	81%	49 - 123			7065633		07/05/07 18:43
Surrogate: 2,4,6-Tribromophenol		1.45		mg/kg wet	1.67	86%	26 - 116			7065633		07/05/07 18:43
Surrogate: Phenol-d5		1.20		mg/kg wet	1.67	72%	24 - 103			7065633		07/05/07 18:43
Surrogate: 2-Fluorobiphenyl		1.16		mg/kg wet	1.67	70%	30 - 93			7065633		07/05/07 18:43
Surrogate: 2-Fluorophenol		1.23		mg/kg wet	1.67	74%	27 - 93			7065633		07/05/07 18:43
Surrogate: Nitrobenzene-d5		0.885		mg/kg wet	1.67	53%	34 - 87			7065633		07/05/07 18:43
7070253-BSD1												
Acenaphthene		1.37		mg/kg wet	1.67	82%	54 - 112	12	25	7070253		07/07/07 17:09
Acenaphthylene		1.41		mg/kg wet	1.67	85%	57 - 114	11	50	7070253		07/07/07 17:09
Anthracene		1.54		mg/kg wet	1.67	92%	60 - 121	10	50	7070253		07/07/07 17:09
Benzo (a) anthracene		1.54		mg/kg wet	1.67	92%	58 - 116	8	50	7070253		07/07/07 17:09
Benzo (a) pyrene		1.58		mg/kg wet	1.67	95%	58 - 125	10	50	7070253		07/07/07 17:09
Benzo (b) fluoranthene		1.49		mg/kg wet	1.67	90%	51 - 122	7	50	7070253		07/07/07 17:09
Benzo (g,h,i) perylene		1.59		mg/kg wet	1.67	95%	52 - 118	10	50	7070253		07/07/07 17:09
Benzo (k) fluoranthene		1.44		mg/kg wet	1.67	87%	49 - 123	13	33	7070253		07/07/07 17:09
4-Bromophenyl phenyl ether		1.39		mg/kg wet	1.67	83%	50 - 101	9	50	7070253		07/07/07 17:09
Butyl benzyl phthalate		1.66		mg/kg wet	1.67	100%	55 - 131	10	50	7070253		07/07/07 17:09
Carbazole		1.44		mg/kg wet	1.67	87%	56 - 119	11	50	7070253		07/07/07 17:09
4-Chloro-3-methylphenol		1.33		mg/kg wet	1.67	80%	50 - 117	10	50	7070253		07/07/07 17:09
4-Chloroaniline		1.36		mg/kg wet	1.67	82%	47 - 106	10	25	7070253		07/07/07 17:09
Bis(2-chloroethoxy)methane		1.30		mg/kg wet	1.67	78%	48 - 106	8	27	7070253		07/07/07 17:09

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7070253-BSD1												
Bis(2-chloroethyl)ether		1.34		mg/kg wet	1.67	80%	43 - 108	5	42	7070253		07/07/07 17:09
Bis(2-chloroisopropyl)ether		1.37		mg/kg wet	1.67	82%	47 - 112	7	50	7070253		07/07/07 17:09
2-Chloronaphthalene		1.43		mg/kg wet	1.67	86%	54 - 112	10	50	7070253		07/07/07 17:09
2-Chlorophenol		1.39		mg/kg wet	1.67	83%	52 - 109	9	30	7070253		07/07/07 17:09
4-Chlorophenyl phenyl ether		1.47		mg/kg wet	1.67	88%	54 - 111	13	27	7070253		07/07/07 17:09
Chrysene		1.70		mg/kg wet	1.67	102%	58 - 115	11	50	7070253		07/07/07 17:09
Dibenz (a,h) anthracene		1.61		mg/kg wet	1.67	96%	51 - 123	8	550	7070253		07/07/07 17:09
Dibenzofuran		1.45		mg/kg wet	1.67	87%	58 - 113	12	50	7070253		07/07/07 17:09
Di-n-butyl phthalate		1.60		mg/kg wet	1.67	96%	54 - 125	11	50	7070253		07/07/07 17:09
1,4-Dichlorobenzene		1.31		mg/kg wet	1.67	79%	41 - 107	4	40	7070253		07/07/07 17:09
1,2-Dichlorobenzene		1.39		mg/kg wet	1.68	82%	44 - 109	7	45	7070253		07/07/07 17:09
1,3-Dichlorobenzene		1.35		mg/kg wet	1.67	81%	42 - 106	8	39	7070253		07/07/07 17:09
3,3-Dichlorobenzidine		1.45		mg/kg wet	1.67	87%	44 - 120	9	36	7070253		07/07/07 17:09
2,4-Dichlorophenol		1.34		mg/kg wet	1.67	81%	47 - 115	4	28	7070253		07/07/07 17:09
Diethyl phthalate		1.49		mg/kg wet	1.67	89%	51 - 117	8	25	7070253		07/07/07 17:09
2,4-Dimethylphenol		1.39		mg/kg wet	1.67	84%	24 - 118	12	50	7070253		07/07/07 17:09
Dimethyl phthalate		1.40		mg/kg wet	1.67	84%	54 - 113	12	50	7070253		07/07/07 17:09
4,6-Dinitro-2-methylphenol		1.53		mg/kg wet	1.67	92%	28 - 135	7	32	7070253		07/07/07 17:09
2,4-Dinitrophenol		1.64		mg/kg wet	1.67	99%	10 - 161	4	47	7070253		07/07/07 17:09
2,6-Dinitrotoluene		1.56		mg/kg wet	1.67	93%	58 - 130	10	45	7070253		07/07/07 17:09
2,4-Dinitrotoluene		1.57		mg/kg wet	1.67	94%	59 - 128	11	44	7070253		07/07/07 17:09
Di-n-octyl phthalate		1.56		mg/kg wet	1.67	94%	48 - 131	11	50	7070253		07/07/07 17:09
Bis(2-ethylhexyl)phthalate		1.67		mg/kg wet	1.67	100%	40 - 131	8	50	7070253		07/07/07 17:09
Fluoranthene		1.46		mg/kg wet	1.67	87%	56 - 118	11	50	7070253		07/07/07 17:09
Fluorene		1.44		mg/kg wet	1.67	86%	56 - 114	10	50	7070253		07/07/07 17:09
Hexachlorobenzene		1.51		mg/kg wet	1.67	90%	56 - 119	10	23	7070253		07/07/07 17:09
Hexachlorobutadiene		1.30		mg/kg wet	1.67	78%	42 - 112	9	34	7070253		07/07/07 17:09
Hexachlorocyclopentadiene		1.44		mg/kg wet	1.67	87%	19 - 124	9	50	7070253		07/07/07 17:09
Hexachloroethane		1.24		mg/kg wet	1.67	74%	40 - 107	14	46	7070253		07/07/07 17:09
Indeno (1,2,3-cd) pyrene		1.59		mg/kg wet	1.67	95%	54 - 119	9	50	7070253		07/07/07 17:09
Isophorone		1.41		mg/kg wet	1.67	85%	35 - 107	8	33	7070253		07/07/07 17:09
2-Methylnaphthalene		1.33		mg/kg wet	1.67	80%	48 - 110	6	50	7070253		07/07/07 17:09
2-Methylphenol		1.41		mg/kg wet	1.67	84%	54 - 116	9	50	7070253		07/07/07 17:09
3/4-Methylphenol		1.60		mg/kg wet	1.67	96%	56 - 131	9	50	7070253		07/07/07 17:09
Naphthalene		1.21		mg/kg wet	1.67	73%	44 - 102	8	50	7070253		07/07/07 17:09
3-Nitroaniline		1.48		mg/kg wet	1.67	89%	55 - 121	11	50	7070253		07/07/07 17:09
2-Nitroaniline		1.48		mg/kg wet	1.67	89%	58 - 119	12	50	7070253		07/07/07 17:09
4-Nitroaniline		1.46		mg/kg wet	1.67	88%	45 - 122	12	50	7070253		07/07/07 17:09
Nitrobenzene		1.29		mg/kg wet	1.67	77%	43 - 108	7	50	7070253		07/07/07 17:09
4-Nitrophenol		1.53		mg/kg wet	1.67	92%	27 - 155	3	50	7070253		07/07/07 17:09
2-Nitrophenol		1.26		mg/kg wet	1.67	76%	43 - 116	8	50	7070253		07/07/07 17:09

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7070253-BSD1												
N-Nitrosodiphenylamine		1.65		mg/kg wet	1.67	99%	83 - 182	11	50	7070253		07/07/07 17:09
N-Nitrosodi-n-propylamine		1.38		mg/kg wet	1.67	83%	47 - 118	13	50	7070253		07/07/07 17:09
Pentachlorophenol		1.74		mg/kg wet	1.67	105%	17 - 146	7	50	7070253		07/07/07 17:09
Phenanthrene		1.48		mg/kg wet	1.67	89%	56 - 115	12	50	7070253		07/07/07 17:09
Phenol		1.33		mg/kg wet	1.67	80%	50 - 114	9	50	7070253		07/07/07 17:09
Pyrene		1.53		mg/kg wet	1.67	92%	55 - 124	8	50	7070253		07/07/07 17:09
Pyridine		1.14		mg/kg wet	1.67	68%	27 - 98	10	50	7070253		07/07/07 17:09
1,2,4-Trichlorobenzene		1.29		mg/kg wet	1.67	78%	43 - 103	5	33	7070253		07/07/07 17:09
1-Methylnaphthalene		1.21		mg/kg wet	1.68	72%	45 - 102	10	50	7070253		07/07/07 17:09
2,4,6-Trichlorophenol		1.43		mg/kg wet	1.67	86%	56 - 113	7	28	7070253		07/07/07 17:09
2,4,5-Trichlorophenol		1.50		mg/kg wet	1.67	90%	58 - 119	12	28	7070253		07/07/07 17:09
Surrogate: Terphenyl-d14		1.53		mg/kg wet	1.67	92%	49 - 123			7070253		07/07/07 17:09
Surrogate: 2,4,6-Tribromophenol		3.20		mg/kg wet	3.33	96%	26 - 116			7070253		07/07/07 17:09
Surrogate: Phenol-d5		2.64		mg/kg wet	3.35	79%	24 - 103			7070253		07/07/07 17:09
Surrogate: 2-Fluorobiphenyl		1.38		mg/kg wet	1.67	83%	30 - 93			7070253		07/07/07 17:09
Surrogate: 2-Fluorophenol		2.66		mg/kg wet	3.33	80%	27 - 93			7070253		07/07/07 17:09
Surrogate: Nitrobenzene-d5		1.25		mg/kg wet	1.67	75%	34 - 87			7070253		07/07/07 17:09
7071161-BSD1												
Acenaphthene		1.62		mg/kg wet	1.67	97%	54 - 112	13	25	7071161		07/10/07 23:44
Acenaphthylene		1.59		mg/kg wet	1.67	96%	57 - 114	15	50	7071161		07/10/07 23:44
Anthracene		1.68		mg/kg wet	1.67	101%	60 - 121	21	50	7071161		07/10/07 23:44
Benzo (a) anthracene		1.49		mg/kg wet	1.67	90%	58 - 116	21	50	7071161		07/10/07 23:44
Benzo (a) pyrene		1.57		mg/kg wet	1.67	94%	58 - 125	21	50	7071161		07/10/07 23:44
Benzo (b) fluoranthene		1.58		mg/kg wet	1.67	95%	51 - 122	3	50	7071161		07/10/07 23:44
Benzo (g,h,i) perylene		1.60		mg/kg wet	1.67	96%	52 - 118	17	50	7071161		07/10/07 23:44
Benzo (k) fluoranthene		1.48	R2	mg/kg wet	1.67	89%	49 - 123	43	33	7071161		07/10/07 23:44
4-Bromophenyl phenyl ether		1.30		mg/kg wet	1.67	78%	50 - 101	20	50	7071161		07/10/07 23:44
Butyl benzyl phthalate		1.48		mg/kg wet	1.67	89%	55 - 131	20	50	7071161		07/10/07 23:44
Carbazole		1.65		mg/kg wet	1.67	99%	56 - 119	19	50	7071161		07/10/07 23:44
4-Chloro-3-methylphenol		1.60		mg/kg wet	1.67	96%	50 - 117	11	50	7071161		07/10/07 23:44
4-Chloroaniline		1.38		mg/kg wet	1.67	83%	47 - 106	19	25	7071161		07/10/07 23:44
Bis(2-chloroethoxy)methane		1.36		mg/kg wet	1.67	82%	48 - 106	11	27	7071161		07/10/07 23:44
Bis(2-chloroethyl)ether		1.33		mg/kg wet	1.67	80%	43 - 108	11	42	7071161		07/10/07 23:44
Bis(2-chloroisopropyl)ether		1.46		mg/kg wet	1.67	87%	47 - 112	9	50	7071161		07/10/07 23:44
2-Chloronaphthalene		1.45		mg/kg wet	1.67	87%	54 - 112	21	50	7071161		07/10/07 23:44
2-Chlorophenol		1.47		mg/kg wet	1.67	88%	52 - 109	11	30	7071161		07/10/07 23:44
4-Chlorophenyl phenyl ether		1.55		mg/kg wet	1.67	93%	54 - 111	20	27	7071161		07/10/07 23:44
Chrysene		1.50		mg/kg wet	1.67	90%	58 - 115	19	50	7071161		07/10/07 23:44
Dibenz (a,h) anthracene		1.56		mg/kg wet	1.67	94%	51 - 123	20	550	7071161		07/10/07 23:44
Dibenzofuran		1.62		mg/kg wet	1.67	97%	58 - 113	18	50	7071161		07/10/07 23:44

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7071161-BSD1												
Di-n-butyl phthalate		1.55		mg/kg wet	1.67	93%	54 - 125	21	50	7071161		07/10/07 23:44
1,4-Dichlorobenzene		1.24		mg/kg wet	1.67	74%	41 - 107	18	40	7071161		07/10/07 23:44
1,2-Dichlorobenzene		1.39		mg/kg wet	1.68	82%	44 - 109	11	45	7071161		07/10/07 23:44
1,3-Dichlorobenzene		1.32		mg/kg wet	1.67	79%	42 - 106	10	39	7071161		07/10/07 23:44
3,3-Dichlorobenzidine		1.28		mg/kg wet	1.67	77%	44 - 120	23	36	7071161		07/10/07 23:44
2,4-Dichlorophenol		1.46		mg/kg wet	1.67	88%	47 - 115	15	28	7071161		07/10/07 23:44
Diethyl phthalate		1.57		mg/kg wet	1.67	94%	51 - 117	17	25	7071161		07/10/07 23:44
2,4-Dimethylphenol		1.69		mg/kg wet	1.67	101%	24 - 118	13	50	7071161		07/10/07 23:44
Dimethyl phthalate		1.59		mg/kg wet	1.67	95%	54 - 113	17	50	7071161		07/10/07 23:44
4,6-Dinitro-2-methylphenol		1.47		mg/kg wet	1.67	88%	28 - 135	21	32	7071161		07/10/07 23:44
2,4-Dinitrophenol		1.82		mg/kg wet	1.67	109%	10 - 161	19	47	7071161		07/10/07 23:44
2,6-Dinitrotoluene		1.57		mg/kg wet	1.67	94%	58 - 130	20	45	7071161		07/10/07 23:44
2,4-Dinitrotoluene		1.68		mg/kg wet	1.67	101%	59 - 128	16	44	7071161		07/10/07 23:44
Di-n-octyl phthalate		1.20		mg/kg wet	1.67	72%	48 - 131	21	50	7071161		07/10/07 23:44
Bis(2-ethylhexyl)phthalate		1.32		mg/kg wet	1.67	79%	40 - 131	24	50	7071161		07/10/07 23:44
Fluoranthene		1.59		mg/kg wet	1.67	95%	56 - 118	23	50	7071161		07/10/07 23:44
Fluorene		1.54		mg/kg wet	1.67	93%	56 - 114	21	50	7071161		07/10/07 23:44
Hexachlorobenzene		1.65		mg/kg wet	1.67	99%	56 - 119	17	23	7071161		07/10/07 23:44
Hexachlorobutadiene		1.59		mg/kg wet	1.67	95%	42 - 112	13	34	7071161		07/10/07 23:44
Hexachlorocyclopentadiene		1.61		mg/kg wet	1.67	97%	19 - 124	5	50	7071161		07/10/07 23:44
Hexachloroethane		1.48		mg/kg wet	1.67	89%	40 - 107	16	46	7071161		07/10/07 23:44
Indeno (1,2,3-cd) pyrene		1.57		mg/kg wet	1.67	94%	54 - 119	21	50	7071161		07/10/07 23:44
Isophorone		1.36		mg/kg wet	1.67	81%	35 - 107	12	33	7071161		07/10/07 23:44
2-Methylnaphthalene		1.57		mg/kg wet	1.67	94%	48 - 110	11	50	7071161		07/10/07 23:44
2-Methylphenol		1.42		mg/kg wet	1.67	85%	54 - 116	14	50	7071161		07/10/07 23:44
3/4-Methylphenol		1.56		mg/kg wet	1.67	94%	56 - 131	7	50	7071161		07/10/07 23:44
Naphthalene		1.42		mg/kg wet	1.67	85%	44 - 102	15	50	7071161		07/10/07 23:44
3-Nitroaniline		1.60		mg/kg wet	1.67	96%	55 - 121	23	50	7071161		07/10/07 23:44
2-Nitroaniline		1.60		mg/kg wet	1.67	96%	58 - 119	19	50	7071161		07/10/07 23:44
4-Nitroaniline		1.61		mg/kg wet	1.67	96%	45 - 122	22	50	7071161		07/10/07 23:44
Nitrobenzene		1.37		mg/kg wet	1.67	82%	43 - 108	13	50	7071161		07/10/07 23:44
4-Nitrophenol		1.76		mg/kg wet	1.67	105%	27 - 155	16	50	7071161		07/10/07 23:44
2-Nitrophenol		1.41		mg/kg wet	1.67	85%	43 - 116	14	50	7071161		07/10/07 23:44
N-Nitrosodiphenylamine		1.69		mg/kg wet	1.67	101%	83 - 182	21	50	7071161		07/10/07 23:44
N-Nitrosodi-n-propylamine		1.53		mg/kg wet	1.67	92%	47 - 118	8	50	7071161		07/10/07 23:44
Pentachlorophenol		1.78		mg/kg wet	1.67	107%	17 - 146	18	50	7071161		07/10/07 23:44
Phenanthrene		1.54		mg/kg wet	1.67	93%	56 - 115	19	50	7071161		07/10/07 23:44
Phenol		1.50		mg/kg wet	1.67	90%	50 - 114	3	50	7071161		07/10/07 23:44
Pyrene		1.43		mg/kg wet	1.67	86%	55 - 124	20	50	7071161		07/10/07 23:44
Pyridine		<0.0960	L2	mg/kg wet	1.67	0%	27 - 98		50	7071161		07/10/07 23:44
1,2,4-Trichlorobenzene		1.32		mg/kg wet	1.67	79%	43 - 103	15	33	7071161		07/10/07 23:44

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ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7071161-BSD1												
1-Methylnaphthalene		1.31		mg/kg wet	1.68	78%	45 - 102	11	50	7071161		07/10/07 23:44
2,4,6-Trichlorophenol		1.69		mg/kg wet	1.67	101%	56 - 113	11	28	7071161		07/10/07 23:44
2,4,5-Trichlorophenol		1.55		mg/kg wet	1.67	93%	58 - 119	21	28	7071161		07/10/07 23:44
Surrogate: Terphenyl-d14		1.39		mg/kg wet	1.67	84%	49 - 123			7071161		07/10/07 23:44
Surrogate: 2,4,6-Tribromophenol		3.27		mg/kg wet	3.33	98%	26 - 116			7071161		07/10/07 23:44
Surrogate: Phenol-d5		2.90		mg/kg wet	3.35	87%	24 - 103			7071161		07/10/07 23:44
Surrogate: 2-Fluorobiphenyl		1.44		mg/kg wet	1.67	86%	30 - 93			7071161		07/10/07 23:44
Surrogate: 2-Fluorophenol		2.74		mg/kg wet	3.33	82%	27 - 93			7071161		07/10/07 23:44
Surrogate: Nitrobenzene-d5		1.39		mg/kg wet	1.67	84%	34 - 87			7071161		07/10/07 23:44

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	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Total Metals by EPA Method 6010B										
7065534-MS1										
Arsenic	8.76	24.4		mg/kg dry	20.8	75%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Barium	11.2	450		mg/kg dry	416	105%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Cadmium	0.427	21.8		mg/kg dry	20.8	103%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Chromium	11.5	49.4		mg/kg dry	41.6	91%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Lead	13.2	111		mg/kg dry	104	94%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Selenium	2.72	22.5		mg/kg dry	20.8	95%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
Silver	ND	10.6		mg/kg dry	10.4	102%	75 - 125	7065534	NQF3703-15	07/06/07 10:16
7065535-MS1										
Arsenic	3.78	26.5		mg/kg dry	22.8	100%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Barium	199	620		mg/kg dry	455	93%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Cadmium	ND	19.7		mg/kg dry	22.8	87%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Chromium	25.6	61.6		mg/kg dry	45.5	79%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Lead	24.3	127		mg/kg dry	114	91%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Selenium	ND	21.3		mg/kg dry	22.8	93%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
Silver	ND	11.4		mg/kg dry	11.4	100%	75 - 125	7065535	NQF3703-26	07/02/07 21:22
7070052-MS1										
Arsenic	ND	0.0513		mg/L	0.0500	103%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Barium	ND	2.12		mg/L	2.00	106%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Cadmium	ND	0.0555		mg/L	0.0500	111%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Chromium	ND	0.216		mg/L	0.200	108%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Lead	ND	0.0506		mg/L	0.0500	101%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Selenium	ND	0.0541		mg/L	0.0500	108%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
Silver	ND	0.0502		mg/L	0.0500	100%	75 - 125	7070052	NQF3703-35	07/03/07 15:32
7070096-MS1										
Arsenic	6.93	33.3		mg/kg dry	25.0	106%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Barium	231	766		mg/kg dry	500	107%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Cadmium	ND	25.9		mg/kg dry	25.0	104%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Chromium	24.5	93.3	M1	mg/kg dry	50.0	138%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Lead	33.2	154		mg/kg dry	125	97%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Selenium	1.89	26.9		mg/kg dry	25.0	100%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Silver	ND	12.7		mg/kg dry	12.5	102%	75 - 125	7070096	NQF3703-27	07/02/07 14:37
Dissolved Metals by EPA Method 6010B										
7070058-MS1										
Arsenic	0.00590	0.0588		mg/L	0.0500	106%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Barium	0.0187	2.08		mg/L	2.00	103%	75 - 125	7070058	NQF3410-01	07/02/07 14:37

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	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Dissolved Metals by EPA Method 6010B										
7070058-MS1										
Cadmium	0.00110	0.0485		mg/L	0.0500	95%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Chromium	0.0913	0.288		mg/L	0.200	98%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Lead	0.0259	0.0492	M2	mg/L	0.0500	47%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Selenium	ND	0.0471		mg/L	0.0500	94%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Silver	ND	0.103		mg/L	0.100	103%	75 - 125	7070058	NQF3410-01	07/02/07 14:37
Mercury by EPA Methods 7470A/7471A										
7070075-MS1										
Mercury	ND	0.184		mg/kg dry	0.170	108%	60 - 149	7070075	NQF3703-15	07/06/07 08:37
7070076-MS1										
Mercury	0.0748	0.288		mg/kg dry	0.190	112%	60 - 149	7070076	NQF3703-26	07/05/07 10:00
7070078-MS1										
Mercury	0.0519	0.321		mg/kg dry	0.213	127%	60 - 149	7070078	NQF3703-27	07/05/07 11:26
7070081-MS1										
Mercury	ND	0.000929		mg/L	0.00100	93%	63 - 138	7070081	NQF3703-35	07/05/07 08:33
Dissolved Mercury by EPA Methods 7470A/7471A										
7070083-MS1										
Mercury	ND	0.00120		mg/L	0.00100	120%	63 - 138	7070083	NQF3703-37	07/05/07 11:28
Organochlorine Pesticides by EPA Method 8081A										
7065631-MS1										
Aldrin	ND	0.0210		mg/kg dry	0.0191	110%	26 - 148	7065631	NQF3703-26	07/07/07 03:15
delta-BHC	ND	0.0187		mg/kg dry	0.0191	98%	19 - 146	7065631	NQF3703-26	07/07/07 03:15
alpha-BHC	ND	0.0210		mg/kg dry	0.0191	110%	25 - 154	7065631	NQF3703-26	07/07/07 03:15
beta-BHC	ND	0.0275		mg/kg dry	0.0191	144%	19 - 167	7065631	NQF3703-26	07/07/07 03:15
gamma-BHC (Lindane)	ND	0.0218		mg/kg dry	0.0191	114%	25 - 162	7065631	NQF3703-26	07/07/07 03:15
alpha-Chlordane	ND	0.0179		mg/kg dry	0.0191	94%	27 - 149	7065631	NQF3703-26	07/07/07 03:15
gamma-Chlordane	ND	0.0176		mg/kg dry	0.0191	92%	29 - 148	7065631	NQF3703-26	07/07/07 03:15
4,4'-DDD	ND	0.0202		mg/kg dry	0.0191	106%	17 - 170	7065631	NQF3703-26	07/07/07 03:15
4,4'-DDE	ND	0.0260		mg/kg dry	0.0191	136%	16 - 166	7065631	NQF3703-26	07/07/07 03:15
4,4'-DDT	ND	0.0195		mg/kg dry	0.0191	102%	10 - 179	7065631	NQF3703-26	07/07/07 03:15
Dieldrin	ND	0.0183		mg/kg dry	0.0191	96%	24 - 156	7065631	NQF3703-26	07/07/07 03:15
Endosulfan I	ND	0.0149		mg/kg dry	0.0191	78%	33 - 156	7065631	NQF3703-26	07/07/07 03:15
Endosulfan II	ND	0.0176		mg/kg dry	0.0191	92%	19 - 160	7065631	NQF3703-26	07/07/07 03:15
Endosulfan sulfate	ND	0.0176		mg/kg dry	0.0191	92%	18 - 164	7065631	NQF3703-26	07/07/07 03:15

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A										
7065631-MS1										
Endrin	ND	0.0191		mg/kg dry	0.0191	100%	18 - 167	7065631	NQF3703-26	07/07/07 03:15
Endrin aldehyde	ND	0.0145		mg/kg dry	0.0191	76%	15 - 153	7065631	NQF3703-26	07/07/07 03:15
Endrin ketone	ND	0.0183		mg/kg dry	0.0191	96%	17 - 168	7065631	NQF3703-26	07/07/07 03:15
Heptachlor	ND	0.0218		mg/kg dry	0.0191	114%	20 - 157	7065631	NQF3703-26	07/07/07 03:15
Heptachlor epoxide	ND	0.0183		mg/kg dry	0.0191	96%	24 - 159	7065631	NQF3703-26	07/07/07 03:15
Methoxychlor	ND	0.0202		mg/kg dry	0.0191	106%	19 - 180	7065631	NQF3703-26	07/07/07 03:15
Surrogate: Tetrachloro-meta-xylene		0.0458		mg/kg dry	0.0382	120%	27 - 165	7065631	NQF3703-26	07/07/07 03:15
Surrogate: Decachlorobiphenyl		0.0496		mg/kg dry	0.0382	130%	37 - 171	7065631	NQF3703-26	07/07/07 03:15
7070488-MS1										
Aldrin	ND	0.0243		mg/kg dry	0.0209	116%	26 - 148	7070488	NQF3703-27	07/08/07 09:58
delta-BHC	ND	0.0201		mg/kg dry	0.0209	96%	19 - 146	7070488	NQF3703-27	07/08/07 09:58
alpha-BHC	ND	0.0180		mg/kg dry	0.0209	86%	25 - 154	7070488	NQF3703-27	07/08/07 09:58
beta-BHC	ND	0.0318		mg/kg dry	0.0209	152%	19 - 167	7070488	NQF3703-27	07/08/07 09:58
gamma-BHC (Lindane)	ND	0.0184		mg/kg dry	0.0209	88%	25 - 162	7070488	NQF3703-27	07/08/07 09:58
alpha-Chlordane	ND	0.0188		mg/kg dry	0.0209	90%	27 - 149	7070488	NQF3703-27	07/08/07 09:58
gamma-Chlordane	ND	0.0172		mg/kg dry	0.0209	82%	29 - 148	7070488	NQF3703-27	07/08/07 09:58
4,4'-DDD	ND	0.0305		mg/kg dry	0.0209	146%	17 - 170	7070488	NQF3703-27	07/08/07 09:58
4,4'-DDE	ND	0.0301		mg/kg dry	0.0209	144%	16 - 166	7070488	NQF3703-27	07/08/07 09:58
4,4'-DDT	ND	0.0268		mg/kg dry	0.0209	128%	10 - 179	7070488	NQF3703-27	07/08/07 09:58
Dieldrin	ND	0.0272		mg/kg dry	0.0209	130%	24 - 156	7070488	NQF3703-27	07/08/07 09:58
Endosulfan I	ND	0.0146		mg/kg dry	0.0209	70%	33 - 156	7070488	NQF3703-27	07/08/07 09:58
Endosulfan II	ND	0.0176		mg/kg dry	0.0209	84%	19 - 160	7070488	NQF3703-27	07/08/07 09:58
Endosulfan sulfate	ND	0.0188		mg/kg dry	0.0209	90%	18 - 164	7070488	NQF3703-27	07/08/07 09:58
Endrin	ND	0.0230		mg/kg dry	0.0209	110%	18 - 167	7070488	NQF3703-27	07/08/07 09:58
Endrin aldehyde	ND	0.0180		mg/kg dry	0.0209	86%	15 - 153	7070488	NQF3703-27	07/08/07 09:58
Endrin ketone	ND	0.0243		mg/kg dry	0.0209	116%	17 - 168	7070488	NQF3703-27	07/08/07 09:58
Heptachlor	ND	0.0155		mg/kg dry	0.0209	74%	20 - 157	7070488	NQF3703-27	07/08/07 09:58
Heptachlor epoxide	ND	0.0192		mg/kg dry	0.0209	92%	24 - 159	7070488	NQF3703-27	07/08/07 09:58
Methoxychlor	ND	0.0209		mg/kg dry	0.0209	100%	19 - 180	7070488	NQF3703-27	07/08/07 09:58
Surrogate: Tetrachloro-meta-xylene		0.0602		mg/kg dry	0.0418	144%	27 - 165	7070488	NQF3703-27	07/08/07 09:58
Surrogate: Decachlorobiphenyl		0.0531		mg/kg dry	0.0418	127%	37 - 171	7070488	NQF3703-27	07/08/07 09:58
Chlorinated Herbicides by EPA Method 8151A										
7065630-MS1										
2,4-D	ND	0.121		mg/kg dry	0.190	64%	16 - 168	7065630	NQF3703-26	07/06/07 18:06
2,4,5-T	ND	0.148		mg/kg dry	0.190	78%	10 - 189	7065630	NQF3703-26	07/06/07 18:06
2,4,5-TP (Silvex)	ND	0.122		mg/kg dry	0.190	64%	11 - 144	7065630	NQF3703-26	07/06/07 18:06

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	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Chlorinated Herbicides by EPA Method 8151A										
7065630-MS1										
Surrogate: Dichloroacetic Acid		0.113		mg/kg dry	0.190	60%	27 - 162	7065630	NQF3703-26	07/06/07 18:06
7070235-MS1										
2,4-D	ND	0.234		mg/kg dry	0.208	113%	16 - 168	7070235	NQF3703-27	07/09/07 14:13
2,4,5-T	ND	0.274		mg/kg dry	0.208	132%	10 - 189	7070235	NQF3703-27	07/09/07 14:13
2,4,5-TP (Silvex)	ND	0.238		mg/kg dry	0.208	115%	11 - 144	7070235	NQF3703-27	07/09/07 14:13
Surrogate: Dichloroacetic Acid		0.201		mg/kg dry	0.208	97%	27 - 162	7070235	NQF3703-27	07/09/07 14:13
7070741-MS1										
2,4-D	ND	0.110		mg/kg dry	0.177	62%	16 - 168	7070741	NQF3703-10	07/11/07 01:50
2,4,5-T	ND	0.127		mg/kg dry	0.177	72%	10 - 189	7070741	NQF3703-10	07/11/07 01:50
2,4,5-TP (Silvex)	ND	0.105		mg/kg dry	0.177	59%	11 - 144	7070741	NQF3703-10	07/11/07 01:50
Surrogate: Dichloroacetic Acid		0.0570		mg/kg dry	0.177	32%	27 - 162	7070741	NQF3703-10	07/11/07 01:50
Volatile Organic Compounds by EPA Method 8260B										
7065514-MS1										
Acetone	28.4	191		ug/kg	250	65%	10 - 176	7065514	NQF3703-27	07/06/07 03:19
Benzene	ND	25.3		ug/kg	50.0	51%	41 - 134	7065514	NQF3703-27	07/06/07 03:19
Bromobenzene	ND	6.16	M8	ug/kg	50.0	12%	17 - 148	7065514	NQF3703-27	07/06/07 03:19
Bromochloromethane	ND	29.7		ug/kg	50.0	59%	42 - 142	7065514	NQF3703-27	07/06/07 03:19
Bromodichloromethane	ND	24.0		ug/kg	50.0	48%	38 - 139	7065514	NQF3703-27	07/06/07 03:19
Bromoform	ND	17.5		ug/kg	50.0	35%	18 - 146	7065514	NQF3703-27	07/06/07 03:19
Bromomethane	ND	39.6		ug/kg	50.0	79%	14 - 161	7065514	NQF3703-27	07/06/07 03:19
2-Butanone	ND	172		ug/kg	250	69%	17 - 163	7065514	NQF3703-27	07/06/07 03:19
sec-Butylbenzene	ND	3.60	M8	ug/kg	50.0	7%	11 - 157	7065514	NQF3703-27	07/06/07 03:19
n-Butylbenzene	ND	2.45	M8	ug/kg	50.0	5%	10 - 156	7065514	NQF3703-27	07/06/07 03:19
tert-Butylbenzene	ND	4.65	M8	ug/kg	50.0	9%	17 - 154	7065514	NQF3703-27	07/06/07 03:19
Carbon disulfide	ND	28.8		ug/kg	50.0	58%	35 - 129	7065514	NQF3703-27	07/06/07 03:19
Carbon Tetrachloride	ND	31.2		ug/kg	50.0	62%	45 - 138	7065514	NQF3703-27	07/06/07 03:19
Chlorobenzene	ND	8.78	M8	ug/kg	50.0	18%	30 - 139	7065514	NQF3703-27	07/06/07 03:19
Chlorodibromomethane	ND	18.5		ug/kg	50.0	37%	33 - 146	7065514	NQF3703-27	07/06/07 03:19
Chloroethane	ND	37.6		ug/kg	50.0	75%	21 - 158	7065514	NQF3703-27	07/06/07 03:19
Chloroform	ND	28.7		ug/kg	50.0	57%	46 - 136	7065514	NQF3703-27	07/06/07 03:19
Chloromethane	ND	24.8		ug/kg	50.0	50%	30 - 142	7065514	NQF3703-27	07/06/07 03:19
2-Chlorotoluene	ND	4.56	M8	ug/kg	50.0	9%	16 - 158	7065514	NQF3703-27	07/06/07 03:19
4-Chlorotoluene	ND	3.71	M8	ug/kg	50.0	7%	11 - 156	7065514	NQF3703-27	07/06/07 03:19
1,2-Dibromo-3-chloropropane	ND	16.7		ug/kg	50.0	33%	10 - 158	7065514	NQF3703-27	07/06/07 03:19
1,2-Dibromoethane (EDB)	ND	18.4		ug/kg	50.0	37%	33 - 147	7065514	NQF3703-27	07/06/07 03:19

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client TRIAD Engineering, Inc (13592)
P.O. Box 1435
St. Albans, WV 25177
Attn Greg Tieman

Work Order: NQF3703
Project Name: WVU - Site Assessment
Project Number: 04-07-0231
Received: 06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
7065514-MS1										
Dibromomethane	ND	25.8		ug/kg	50.0	52%	35 - 143	7065514	NQF3703-27	07/06/07 03:19
1,4-Dichlorobenzene	ND	3.45	M8	ug/kg	50.0	7%	10 - 146	7065514	NQF3703-27	07/06/07 03:19
1,3-Dichlorobenzene	ND	3.78	M8	ug/kg	50.0	8%	10 - 149	7065514	NQF3703-27	07/06/07 03:19
1,2-Dichlorobenzene	ND	4.41	M8	ug/kg	50.0	9%	10 - 148	7065514	NQF3703-27	07/06/07 03:19
Dichlorodifluoromethane	ND	31.1		ug/kg	50.0	62%	10 - 156	7065514	NQF3703-27	07/06/07 03:19
1,1-Dichloroethane	ND	32.1		ug/kg	50.0	64%	48 - 135	7065514	NQF3703-27	07/06/07 03:19
1,2-Dichloroethane	ND	26.4		ug/kg	50.0	53%	39 - 143	7065514	NQF3703-27	07/06/07 03:19
cis-1,2-Dichloroethene	ND	27.3		ug/kg	50.0	55%	45 - 135	7065514	NQF3703-27	07/06/07 03:19
1,1-Dichloroethene	ND	37.4		ug/kg	50.0	75%	47 - 131	7065514	NQF3703-27	07/06/07 03:19
trans-1,2-Dichloroethene	ND	27.4		ug/kg	50.0	55%	45 - 135	7065514	NQF3703-27	07/06/07 03:19
1,3-Dichloropropane	ND	19.3		ug/kg	50.0	39%	36 - 142	7065514	NQF3703-27	07/06/07 03:19
1,2-Dichloropropane	ND	24.3		ug/kg	50.0	49%	43 - 142	7065514	NQF3703-27	07/06/07 03:19
2,2-Dichloropropane	ND	31.9		ug/kg	50.0	64%	39 - 142	7065514	NQF3703-27	07/06/07 03:19
cis-1,3-Dichloropropene	ND	15.5	M8	ug/kg	50.0	31%	35 - 143	7065514	NQF3703-27	07/06/07 03:19
trans-1,3-Dichloropropene	ND	12.6	M8	ug/kg	50.0	25%	28 - 145	7065514	NQF3703-27	07/06/07 03:19
1,1-Dichloropropene	ND	25.9		ug/kg	50.0	52%	46 - 140	7065514	NQF3703-27	07/06/07 03:19
Ethylbenzene	ND	8.06	M8	ug/kg	50.0	16%	27 - 143	7065514	NQF3703-27	07/06/07 03:19
Hexachlorobutadiene	ND	2.60	M8	ug/kg	50.0	5%	10 - 147	7065514	NQF3703-27	07/06/07 03:19
2-Hexanone	ND	126		ug/kg	250	51%	15 - 159	7065514	NQF3703-27	07/06/07 03:19
Isopropylbenzene	ND	5.75	M8	ug/kg	50.0	12%	20 - 140	7065514	NQF3703-27	07/06/07 03:19
p-Isopropyltoluene	ND	2.75	M8	ug/kg	50.0	6%	10 - 150	7065514	NQF3703-27	07/06/07 03:19
Methyl tert-Butyl Ether	ND	31.8		ug/kg	50.0	64%	26 - 147	7065514	NQF3703-27	07/06/07 03:19
Methylene Chloride	ND	27.5		ug/kg	50.0	55%	25 - 160	7065514	NQF3703-27	07/06/07 03:19
4-Methyl-2-pentanone	ND	134		ug/kg	250	54%	20 - 163	7065514	NQF3703-27	07/06/07 03:19
Naphthalene	ND	5.75		ug/kg	50.0	12%	10 - 153	7065514	NQF3703-27	07/06/07 03:19
n-Propylbenzene	ND	3.86	M8	ug/kg	50.0	8%	12 - 160	7065514	NQF3703-27	07/06/07 03:19
Styrene	ND	5.85		ug/kg	50.0	12%	10 - 152	7065514	NQF3703-27	07/06/07 03:19
1,1,1,2-Tetrachloroethane	ND	14.7	M8	ug/kg	50.0	29%	36 - 141	7065514	NQF3703-27	07/06/07 03:19
1,1,2,2-Tetrachloroethane	ND	18.1		ug/kg	50.0	36%	20 - 160	7065514	NQF3703-27	07/06/07 03:19
Tetrachloroethene	ND	11.6	M8	ug/kg	50.0	23%	32 - 143	7065514	NQF3703-27	07/06/07 03:19
Toluene	ND	14.4	M8	ug/kg	50.0	29%	31 - 145	7065514	NQF3703-27	07/06/07 03:19
1,2,3-Trichlorobenzene	ND	4.17	M8	ug/kg	50.0	8%	10 - 147	7065514	NQF3703-27	07/06/07 03:19
1,2,4-Trichlorobenzene	ND	3.87	M8	ug/kg	50.0	8%	10 - 152	7065514	NQF3703-27	07/06/07 03:19
1,1,2-Trichloroethane	ND	21.1		ug/kg	50.0	42%	37 - 145	7065514	NQF3703-27	07/06/07 03:19
1,1,1-Trichloroethane	ND	32.6		ug/kg	50.0	65%	48 - 135	7065514	NQF3703-27	07/06/07 03:19
Trichloroethene	ND	20.6		ug/kg	50.0	41%	40 - 141	7065514	NQF3703-27	07/06/07 03:19
Trichlorofluoromethane	ND	36.8		ug/kg	50.0	74%	34 - 144	7065514	NQF3703-27	07/06/07 03:19

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
7065514-MS1										
1,2,3-Trichloropropane	ND	14.1		ug/kg	50.0	28%	10 - 214	7065514	NQF3703-27	07/06/07 03:19
1,3,5-Trimethylbenzene	ND	3.83	M8	ug/kg	50.0	8%	15 - 157	7065514	NQF3703-27	07/06/07 03:19
1,2,4-Trimethylbenzene	ND	3.38	M8	ug/kg	50.0	7%	10 - 156	7065514	NQF3703-27	07/06/07 03:19
Vinyl chloride	ND	34.9		ug/kg	50.0	70%	42 - 139	7065514	NQF3703-27	07/06/07 03:19
Xylenes, total	ND	21.0	M8	ug/kg	150	14%	27 - 140	7065514	NQF3703-27	07/06/07 03:19
Surrogate: 1,2-Dichloroethane-d4		51.0		ug/kg	50.0	102%	54 - 145	7065514	NQF3703-27	07/06/07 03:19
Surrogate: Dibromofluoromethane		51.1		ug/kg	50.0	102%	67 - 129	7065514	NQF3703-27	07/06/07 03:19
Surrogate: Toluene-d8		49.2		ug/kg	50.0	98%	66 - 142	7065514	NQF3703-27	07/06/07 03:19
Surrogate: 4-Bromofluorobenzene		49.6		ug/kg	50.0	99%	68 - 150	7065514	NQF3703-27	07/06/07 03:19
Semivolatile Organic Compounds by EPA Method 8270C										
7070253-MS1										
Acenaphthene	ND	1.81		mg/kg dry	2.07	88%	41 - 112	7070253	NQF3703-27	07/07/07 17:33
Acenaphthylene	ND	1.78		mg/kg dry	2.07	86%	37 - 115	7070253	NQF3703-27	07/07/07 17:33
Anthracene	ND	1.95		mg/kg dry	2.07	94%	29 - 133	7070253	NQF3703-27	07/07/07 17:33
Benzo (a) anthracene	ND	1.85		mg/kg dry	2.07	89%	42 - 116	7070253	NQF3703-27	07/07/07 17:33
Benzo (a) pyrene	ND	1.89		mg/kg dry	2.07	92%	37 - 126	7070253	NQF3703-27	07/07/07 17:33
Benzo (b) fluoranthene	ND	1.69		mg/kg dry	2.07	82%	33 - 126	7070253	NQF3703-27	07/07/07 17:33
Benzo (g,h,i) perylene	ND	1.96		mg/kg dry	2.07	95%	19 - 128	7070253	NQF3703-27	07/07/07 17:33
Benzo (k) fluoranthene	ND	1.95		mg/kg dry	2.07	94%	37 - 123	7070253	NQF3703-27	07/07/07 17:33
4-Bromophenyl phenyl ether	ND	1.75		mg/kg dry	2.07	85%	33 - 104	7070253	NQF3703-27	07/07/07 17:33
Butyl benzyl phthalate	ND	2.07		mg/kg dry	2.07	100%	35 - 136	7070253	NQF3703-27	07/07/07 17:33
Carbazole	ND	1.83		mg/kg dry	2.07	89%	35 - 128	7070253	NQF3703-27	07/07/07 17:33
4-Chloro-3-methylphenol	ND	1.77		mg/kg dry	2.07	86%	35 - 117	7070253	NQF3703-27	07/07/07 17:33
4-Chloroaniline	ND	1.59		mg/kg dry	2.07	77%	26 - 106	7070253	NQF3703-27	07/07/07 17:33
Bis(2-chloroethoxy)methane	ND	1.58		mg/kg dry	2.07	77%	42 - 106	7070253	NQF3703-27	07/07/07 17:33
Bis(2-chloroethyl)ether	ND	1.69		mg/kg dry	2.07	82%	29 - 108	7070253	NQF3703-27	07/07/07 17:33
Bis(2-chloroisopropyl)ether	ND	1.71		mg/kg dry	2.07	83%	35 - 112	7070253	NQF3703-27	07/07/07 17:33
2-Chloronaphthalene	ND	1.83		mg/kg dry	2.07	89%	38 - 112	7070253	NQF3703-27	07/07/07 17:33
2-Chlorophenol	ND	1.89		mg/kg dry	2.07	92%	38 - 109	7070253	NQF3703-27	07/07/07 17:33
4-Chlorophenyl phenyl ether	ND	1.87		mg/kg dry	2.07	91%	39 - 112	7070253	NQF3703-27	07/07/07 17:33
Chrysene	ND	2.09		mg/kg dry	2.07	101%	41 - 115	7070253	NQF3703-27	07/07/07 17:33
Dibenz (a,h) anthracene	ND	1.96		mg/kg dry	2.07	95%	29 - 124	7070253	NQF3703-27	07/07/07 17:33
Dibenzofuran	ND	1.90		mg/kg dry	2.07	92%	40 - 114	7070253	NQF3703-27	07/07/07 17:33
Di-n-butyl phthalate	ND	2.01		mg/kg dry	2.07	97%	35 - 128	7070253	NQF3703-27	07/07/07 17:33
1,4-Dichlorobenzene	ND	1.74		mg/kg dry	2.07	84%	27 - 107	7070253	NQF3703-27	07/07/07 17:33
1,2-Dichlorobenzene	ND	1.85		mg/kg dry	2.09	88%	31 - 109	7070253	NQF3703-27	07/07/07 17:33
1,3-Dichlorobenzene	ND	1.82		mg/kg dry	2.07	88%	27 - 106	7070253	NQF3703-27	07/07/07 17:33

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C										
7070253-MS1										
3,3-Dichlorobenzidine	ND	1.58		mg/kg dry	2.07	77%	10 - 124	7070253	NQF3703-27	07/07/07 17:33
2,4-Dichlorophenol	ND	1.75		mg/kg dry	2.07	85%	41 - 115	7070253	NQF3703-27	07/07/07 17:33
Diethyl phthalate	ND	1.79		mg/kg dry	2.07	86%	39 - 117	7070253	NQF3703-27	07/07/07 17:33
2,4-Dimethylphenol	ND	1.71		mg/kg dry	2.07	83%	10 - 122	7070253	NQF3703-27	07/07/07 17:33
Dimethyl phthalate	ND	1.70		mg/kg dry	2.07	82%	33 - 114	7070253	NQF3703-27	07/07/07 17:33
4,6-Dinitro-2-methylphenol	ND	1.88		mg/kg dry	2.07	91%	10 - 135	7070253	NQF3703-27	07/07/07 17:33
2,4-Dinitrophenol	ND	2.06		mg/kg dry	2.07	100%	10 - 161	7070253	NQF3703-27	07/07/07 17:33
2,6-Dinitrotoluene	ND	1.90		mg/kg dry	2.07	92%	43 - 130	7070253	NQF3703-27	07/07/07 17:33
2,4-Dinitrotoluene	ND	1.98		mg/kg dry	2.07	96%	44 - 128	7070253	NQF3703-27	07/07/07 17:33
Di-n-octyl phthalate	ND	1.96		mg/kg dry	2.07	95%	27 - 146	7070253	NQF3703-27	07/07/07 17:33
Bis(2-ethylhexyl)phthalate	ND	2.02		mg/kg dry	2.07	98%	21 - 136	7070253	NQF3703-27	07/07/07 17:33
Fluoranthene	ND	1.81		mg/kg dry	2.07	88%	38 - 122	7070253	NQF3703-27	07/07/07 17:33
Fluorene	ND	1.82		mg/kg dry	2.07	88%	39 - 114	7070253	NQF3703-27	07/07/07 17:33
Hexachlorobenzene	ND	1.86		mg/kg dry	2.07	90%	46 - 119	7070253	NQF3703-27	07/07/07 17:33
Hexachlorobutadiene	ND	1.76		mg/kg dry	2.07	85%	26 - 112	7070253	NQF3703-27	07/07/07 17:33
Hexachlorocyclopentadiene	ND	1.84		mg/kg dry	2.07	89%	10 - 124	7070253	NQF3703-27	07/07/07 17:33
Hexachloroethane	ND	1.76		mg/kg dry	2.07	85%	23 - 107	7070253	NQF3703-27	07/07/07 17:33
Indeno (1,2,3-cd) pyrene	ND	1.94		mg/kg dry	2.07	94%	24 - 127	7070253	NQF3703-27	07/07/07 17:33
Isophorone	ND	1.69		mg/kg dry	2.07	82%	33 - 116	7070253	NQF3703-27	07/07/07 17:33
2-Methylnaphthalene	ND	1.67		mg/kg dry	2.07	81%	31 - 110	7070253	NQF3703-27	07/07/07 17:33
2-Methylphenol	ND	1.89		mg/kg dry	2.07	91%	33 - 116	7070253	NQF3703-27	07/07/07 17:33
3/4-Methylphenol	ND	2.08		mg/kg dry	2.07	101%	27 - 133	7070253	NQF3703-27	07/07/07 17:33
Naphthalene	ND	1.54		mg/kg dry	2.07	74%	30 - 102	7070253	NQF3703-27	07/07/07 17:33
3-Nitroaniline	ND	1.80		mg/kg dry	2.07	87%	33 - 121	7070253	NQF3703-27	07/07/07 17:33
2-Nitroaniline	ND	1.89		mg/kg dry	2.07	92%	41 - 119	7070253	NQF3703-27	07/07/07 17:33
4-Nitroaniline	ND	1.80		mg/kg dry	2.07	87%	25 - 122	7070253	NQF3703-27	07/07/07 17:33
Nitrobenzene	ND	1.58		mg/kg dry	2.07	76%	32 - 108	7070253	NQF3703-27	07/07/07 17:33
4-Nitrophenol	ND	1.87		mg/kg dry	2.07	90%	20 - 155	7070253	NQF3703-27	07/07/07 17:33
2-Nitrophenol	ND	1.65		mg/kg dry	2.07	80%	35 - 116	7070253	NQF3703-27	07/07/07 17:33
N-Nitrosodiphenylamine	ND	2.14		mg/kg dry	2.07	103%	58 - 182	7070253	NQF3703-27	07/07/07 17:33
N-Nitrosodi-n-propylamine	ND	1.72		mg/kg dry	2.07	83%	33 - 118	7070253	NQF3703-27	07/07/07 17:33
Pentachlorophenol	ND	2.22		mg/kg dry	2.07	108%	10 - 147	7070253	NQF3703-27	07/07/07 17:33
Phenanthrene	ND	1.89		mg/kg dry	2.07	91%	39 - 116	7070253	NQF3703-27	07/07/07 17:33
Phenol	ND	1.78		mg/kg dry	2.07	86%	31 - 114	7070253	NQF3703-27	07/07/07 17:33
Pyrene	ND	1.92		mg/kg dry	2.07	93%	36 - 130	7070253	NQF3703-27	07/07/07 17:33
Pyridine	ND	1.28		mg/kg dry	2.07	62%	10 - 98	7070253	NQF3703-27	07/07/07 17:33
1,2,4-Trichlorobenzene	ND	1.70		mg/kg dry	2.07	82%	24 - 108	7070253	NQF3703-27	07/07/07 17:33

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C										
7070253-MS1										
1-Methylnaphthalene	ND	1.55		mg/kg dry	2.09	74%	34 - 102	7070253	NQF3703-27	07/07/07 17:33
2,4,6-Trichlorophenol	ND	1.82		mg/kg dry	2.07	88%	44 - 113	7070253	NQF3703-27	07/07/07 17:33
2,4,5-Trichlorophenol	ND	2.00		mg/kg dry	2.07	97%	47 - 119	7070253	NQF3703-27	07/07/07 17:33
Surrogate: Terphenyl-d14		1.86		mg/kg dry	2.07	90%	49 - 123	7070253	NQF3703-27	07/07/07 17:33
Surrogate: 2,4,6-Tribromophenol		3.71		mg/kg dry	4.13	90%	26 - 116	7070253	NQF3703-27	07/07/07 17:33
Surrogate: Phenol-d5		3.41		mg/kg dry	4.15	82%	24 - 103	7070253	NQF3703-27	07/07/07 17:33
Surrogate: 2-Fluorobiphenyl		1.65		mg/kg dry	2.07	80%	30 - 93	7070253	NQF3703-27	07/07/07 17:33
Surrogate: 2-Fluorophenol		3.41		mg/kg dry	4.13	83%	27 - 93	7070253	NQF3703-27	07/07/07 17:33
Surrogate: Nitrobenzene-d5		1.48		mg/kg dry	2.07	71%	34 - 87	7070253	NQF3703-27	07/07/07 17:33
7071161-MS1										
Acenaphthene	ND	1.22		mg/kg dry	1.66	74%	41 - 112	7071161	NQG0461-01	07/11/07 00:06
Acenaphthylene	ND	1.20		mg/kg dry	1.66	72%	37 - 115	7071161	NQG0461-01	07/11/07 00:06
Anthracene	ND	1.32		mg/kg dry	1.66	80%	29 - 133	7071161	NQG0461-01	07/11/07 00:06
Benzo (a) anthracene	ND	1.22		mg/kg dry	1.66	74%	42 - 116	7071161	NQG0461-01	07/11/07 00:06
Benzo (a) pyrene	ND	1.33		mg/kg dry	1.66	80%	37 - 126	7071161	NQG0461-01	07/11/07 00:06
Benzo (b) fluoranthene	ND	1.13		mg/kg dry	1.66	68%	33 - 126	7071161	NQG0461-01	07/11/07 00:06
Benzo (g,h,i) perylene	ND	1.26		mg/kg dry	1.66	76%	19 - 128	7071161	NQG0461-01	07/11/07 00:06
Benzo (k) fluoranthene	ND	1.30		mg/kg dry	1.66	79%	37 - 123	7071161	NQG0461-01	07/11/07 00:06
4-Bromophenyl phenyl ether	ND	1.08		mg/kg dry	1.66	65%	33 - 104	7071161	NQG0461-01	07/11/07 00:06
Butyl benzyl phthalate	ND	1.19		mg/kg dry	1.66	72%	35 - 136	7071161	NQG0461-01	07/11/07 00:06
Carbazole	ND	1.29		mg/kg dry	1.66	78%	35 - 128	7071161	NQG0461-01	07/11/07 00:06
4-Chloro-3-methylphenol	ND	1.27		mg/kg dry	1.66	77%	35 - 117	7071161	NQG0461-01	07/11/07 00:06
4-Chloroaniline	ND	1.16		mg/kg dry	1.66	70%	26 - 106	7071161	NQG0461-01	07/11/07 00:06
Bis(2-chloroethoxy)methane	ND	1.05		mg/kg dry	1.66	64%	42 - 106	7071161	NQG0461-01	07/11/07 00:06
Bis(2-chloroethyl)ether	ND	0.953		mg/kg dry	1.66	58%	29 - 108	7071161	NQG0461-01	07/11/07 00:06
Bis(2-chloroisopropyl)ether	ND	1.12		mg/kg dry	1.66	67%	35 - 112	7071161	NQG0461-01	07/11/07 00:06
2-Chloronaphthalene	ND	1.17		mg/kg dry	1.66	70%	38 - 112	7071161	NQG0461-01	07/11/07 00:06
2-Chlorophenol	ND	1.14		mg/kg dry	1.66	69%	38 - 109	7071161	NQG0461-01	07/11/07 00:06
4-Chlorophenyl phenyl ether	ND	1.17		mg/kg dry	1.66	71%	39 - 112	7071161	NQG0461-01	07/11/07 00:06
Chrysene	ND	1.24		mg/kg dry	1.66	75%	41 - 115	7071161	NQG0461-01	07/11/07 00:06
Dibenz (a,h) anthracene	ND	1.25		mg/kg dry	1.66	76%	29 - 124	7071161	NQG0461-01	07/11/07 00:06
Dibenzofuran	ND	1.27		mg/kg dry	1.66	77%	40 - 114	7071161	NQG0461-01	07/11/07 00:06
Di-n-butyl phthalate	ND	1.20		mg/kg dry	1.66	72%	35 - 128	7071161	NQG0461-01	07/11/07 00:06
1,4-Dichlorobenzene	ND	1.12		mg/kg dry	1.66	67%	27 - 107	7071161	NQG0461-01	07/11/07 00:06
1,2-Dichlorobenzene	ND	1.12		mg/kg dry	1.67	67%	31 - 109	7071161	NQG0461-01	07/11/07 00:06
1,3-Dichlorobenzene	ND	1.12		mg/kg dry	1.66	68%	27 - 106	7071161	NQG0461-01	07/11/07 00:06
3,3-Dichlorobenzidine	ND	1.19		mg/kg dry	1.66	72%	10 - 124	7071161	NQG0461-01	07/11/07 00:06

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C										
7071161-MS1										
2,4-Dichlorophenol	ND	1.17		mg/kg dry	1.66	70%	41 - 115	7071161	NQG0461-01	07/11/07 00:06
Diethyl phthalate	ND	1.14		mg/kg dry	1.66	69%	39 - 117	7071161	NQG0461-01	07/11/07 00:06
2,4-Dimethylphenol	ND	1.43		mg/kg dry	1.66	86%	10 - 122	7071161	NQG0461-01	07/11/07 00:06
Dimethyl phthalate	ND	1.17		mg/kg dry	1.66	71%	33 - 114	7071161	NQG0461-01	07/11/07 00:06
4,6-Dinitro-2-methylphenol	ND	1.13		mg/kg dry	1.66	68%	10 - 135	7071161	NQG0461-01	07/11/07 00:06
2,4-Dinitrophenol	ND	1.17		mg/kg dry	1.66	71%	10 - 161	7071161	NQG0461-01	07/11/07 00:06
2,6-Dinitrotoluene	ND	1.22		mg/kg dry	1.66	74%	43 - 130	7071161	NQG0461-01	07/11/07 00:06
2,4-Dinitrotoluene	ND	1.22		mg/kg dry	1.66	74%	44 - 128	7071161	NQG0461-01	07/11/07 00:06
Di-n-octyl phthalate	ND	0.998		mg/kg dry	1.66	60%	27 - 146	7071161	NQG0461-01	07/11/07 00:06
Bis(2-ethylhexyl)phthalate	ND	1.14		mg/kg dry	1.66	69%	21 - 136	7071161	NQG0461-01	07/11/07 00:06
Fluoranthene	0.0482	1.29		mg/kg dry	1.66	75%	38 - 122	7071161	NQG0461-01	07/11/07 00:06
Fluorene	ND	1.18		mg/kg dry	1.66	71%	39 - 114	7071161	NQG0461-01	07/11/07 00:06
Hexachlorobenzene	ND	1.26		mg/kg dry	1.66	76%	46 - 119	7071161	NQG0461-01	07/11/07 00:06
Hexachlorobutadiene	ND	1.21		mg/kg dry	1.66	73%	26 - 112	7071161	NQG0461-01	07/11/07 00:06
Hexachlorocyclopentadiene	ND	1.20		mg/kg dry	1.66	72%	10 - 124	7071161	NQG0461-01	07/11/07 00:06
Hexachloroethane	ND	1.30		mg/kg dry	1.66	78%	23 - 107	7071161	NQG0461-01	07/11/07 00:06
Indeno (1,2,3-cd) pyrene	ND	1.27		mg/kg dry	1.66	77%	24 - 127	7071161	NQG0461-01	07/11/07 00:06
Isophorone	ND	1.05		mg/kg dry	1.66	64%	33 - 116	7071161	NQG0461-01	07/11/07 00:06
2-Methylnaphthalene	ND	1.20		mg/kg dry	1.66	72%	31 - 110	7071161	NQG0461-01	07/11/07 00:06
2-Methylphenol	ND	1.17		mg/kg dry	1.66	71%	33 - 116	7071161	NQG0461-01	07/11/07 00:06
3/4-Methylphenol	ND	1.21		mg/kg dry	1.66	73%	27 - 133	7071161	NQG0461-01	07/11/07 00:06
Naphthalene	ND	1.14		mg/kg dry	1.66	69%	30 - 102	7071161	NQG0461-01	07/11/07 00:06
3-Nitroaniline	ND	1.19		mg/kg dry	1.66	72%	33 - 121	7071161	NQG0461-01	07/11/07 00:06
2-Nitroaniline	ND	1.28		mg/kg dry	1.66	78%	41 - 119	7071161	NQG0461-01	07/11/07 00:06
4-Nitroaniline	ND	1.27		mg/kg dry	1.66	77%	25 - 122	7071161	NQG0461-01	07/11/07 00:06
Nitrobenzene	ND	1.09		mg/kg dry	1.66	66%	32 - 108	7071161	NQG0461-01	07/11/07 00:06
4-Nitrophenol	ND	1.23		mg/kg dry	1.66	74%	20 - 155	7071161	NQG0461-01	07/11/07 00:06
2-Nitrophenol	ND	1.16		mg/kg dry	1.66	70%	35 - 116	7071161	NQG0461-01	07/11/07 00:06
N-Nitrosodiphenylamine	ND	1.34		mg/kg dry	1.66	81%	58 - 182	7071161	NQG0461-01	07/11/07 00:06
N-Nitrosodi-n-propylamine	ND	1.13		mg/kg dry	1.66	68%	33 - 118	7071161	NQG0461-01	07/11/07 00:06
Pentachlorophenol	ND	1.40		mg/kg dry	1.66	84%	10 - 147	7071161	NQG0461-01	07/11/07 00:06
Phenanthrene	ND	1.22		mg/kg dry	1.66	74%	39 - 116	7071161	NQG0461-01	07/11/07 00:06
Phenol	ND	1.11		mg/kg dry	1.66	67%	31 - 114	7071161	NQG0461-01	07/11/07 00:06
Pyrene	ND	1.15		mg/kg dry	1.66	69%	36 - 130	7071161	NQG0461-01	07/11/07 00:06
Pyridine	ND	<0.0954	M8	mg/kg dry	1.66	0%	10 - 98	7071161	NQG0461-01	07/11/07 00:06
1,2,4-Trichlorobenzene	ND	1.06		mg/kg dry	1.66	64%	24 - 108	7071161	NQG0461-01	07/11/07 00:06
1-Methylnaphthalene	ND	1.02		mg/kg dry	1.67	61%	34 - 102	7071161	NQG0461-01	07/11/07 00:06

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C										
7071161-MS1										
2,4,6-Trichlorophenol	ND	1.26		mg/kg dry	1.66	76%	44 - 113	7071161	NQG0461-01	07/11/07 00:06
2,4,5-Trichlorophenol	ND	1.10		mg/kg dry	1.66	67%	47 - 119	7071161	NQG0461-01	07/11/07 00:06
Surrogate: Terphenyl-d14		1.03		mg/kg dry	1.66	62%	49 - 123	7071161	NQG0461-01	07/11/07 00:06
Surrogate: 2,4,6-Tribromophenol		2.38		mg/kg dry	3.31	72%	26 - 116	7071161	NQG0461-01	07/11/07 00:06
Surrogate: Phenol-d5		2.15		mg/kg dry	3.33	65%	24 - 103	7071161	NQG0461-01	07/11/07 00:06
Surrogate: 2-Fluorobiphenyl		1.07		mg/kg dry	1.66	65%	30 - 93	7071161	NQG0461-01	07/11/07 00:06
Surrogate: 2-Fluorophenol		1.97		mg/kg dry	3.31	59%	27 - 93	7071161	NQG0461-01	07/11/07 00:06
Surrogate: Nitrobenzene-d5		1.11		mg/kg dry	1.66	67%	34 - 87	7071161	NQG0461-01	07/11/07 00:06

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Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Total Metals by EPA Method 6010B												
7065534-MSD1												
Arsenic	8.76	22.5	M8	mg/kg dry	20.3	68%	75 - 125	8	20	7065534	NQF3703-15	07/06/07 10:30
Barium	11.2	397		mg/kg dry	406	95%	75 - 125	12	20	7065534	NQF3703-15	07/06/07 10:30
Cadmium	0.427	19.4		mg/kg dry	20.3	93%	75 - 125	12	20	7065534	NQF3703-15	07/06/07 10:30
Chromium	11.5	44.3		mg/kg dry	40.6	81%	75 - 125	11	20	7065534	NQF3703-15	07/06/07 10:30
Lead	13.2	99.6		mg/kg dry	101	85%	75 - 125	11	20	7065534	NQF3703-15	07/06/07 10:30
Selenium	2.72	19.5		mg/kg dry	20.3	82%	75 - 125	14	20	7065534	NQF3703-15	07/06/07 10:30
Silver	ND	10.4		mg/kg dry	10.1	103%	75 - 125	2	20	7065534	NQF3703-15	07/06/07 10:30
7065535-MSD1												
Arsenic	3.78	32.1		mg/kg dry	23.0	123%	75 - 125	19	20	7065535	NQF3703-26	07/02/07 21:49
Barium	199	711		mg/kg dry	461	111%	75 - 125	14	20	7065535	NQF3703-26	07/02/07 21:49
Cadmium	ND	18.8		mg/kg dry	23.0	82%	75 - 125	5	20	7065535	NQF3703-26	07/02/07 21:49
Chromium	25.6	83.6	M1, R3	mg/kg dry	46.1	126%	75 - 125	30	20	7065535	NQF3703-26	07/02/07 21:49
Lead	24.3	134		mg/kg dry	115	96%	75 - 125	5	20	7065535	NQF3703-26	07/02/07 21:49
Selenium	ND	21.7		mg/kg dry	23.0	94%	75 - 125	2	20	7065535	NQF3703-26	07/02/07 21:49
Silver	ND	11.1		mg/kg dry	11.5	96%	75 - 125	3	20	7065535	NQF3703-26	07/02/07 21:49
7070052-MSD1												
Arsenic	ND	0.0508		mg/L	0.0500	102%	75 - 125	1	20	7070052	NQF3703-35	07/03/07 15:37
Barium	ND	2.09		mg/L	2.00	105%	75 - 125	1	20	7070052	NQF3703-35	07/03/07 15:37
Cadmium	ND	0.0547		mg/L	0.0500	109%	75 - 125	1	20	7070052	NQF3703-35	07/03/07 15:37
Chromium	ND	0.214		mg/L	0.200	107%	75 - 125	1	20	7070052	NQF3703-35	07/03/07 15:37
Lead	ND	0.0497		mg/L	0.0500	99%	75 - 125	2	20	7070052	NQF3703-35	07/03/07 15:37
Selenium	ND	0.0523		mg/L	0.0500	105%	75 - 125	3	20	7070052	NQF3703-35	07/03/07 15:37
Silver	ND	0.0497		mg/L	0.0500	99%	75 - 125	1	20	7070052	NQF3703-35	07/03/07 15:37
7070096-MSD1												
Arsenic	6.93	32.3		mg/kg dry	25.0	101%	75 - 125	3	20	7070096	NQF3703-27	07/02/07 14:42
Barium	231	763		mg/kg dry	501	106%	75 - 125	0.4	20	7070096	NQF3703-27	07/02/07 14:42
Cadmium	ND	26.3		mg/kg dry	25.0	105%	75 - 125	2	20	7070096	NQF3703-27	07/02/07 14:42
Chromium	24.5	89.6	M1	mg/kg dry	50.1	130%	75 - 125	4	20	7070096	NQF3703-27	07/02/07 14:42
Lead	33.2	157		mg/kg dry	125	99%	75 - 125	2	20	7070096	NQF3703-27	07/02/07 14:42
Selenium	1.89	26.4		mg/kg dry	25.0	98%	75 - 125	2	20	7070096	NQF3703-27	07/02/07 14:42
Silver	ND	12.9		mg/kg dry	12.5	103%	75 - 125	2	20	7070096	NQF3703-27	07/02/07 14:42
Dissolved Metals by EPA Method 6010B												
7070058-MSD1												
Arsenic	0.00590	0.0590		mg/L	0.0500	106%	75 - 125	0.3	20	7070058	NQF3410-01	07/02/07 15:13
Barium	0.0187	2.02		mg/L	2.00	100%	75 - 125	3	20	7070058	NQF3410-01	07/02/07 15:13
Cadmium	0.00110	0.0477		mg/L	0.0500	93%	75 - 125	2	20	7070058	NQF3410-01	07/02/07 15:13
Chromium	0.0913	0.281		mg/L	0.200	95%	75 - 125	2	20	7070058	NQF3410-01	07/02/07 15:13
Lead	0.0259	0.0485	M2	mg/L	0.0500	45%	75 - 125	1	20	7070058	NQF3410-01	07/02/07 15:13

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Dissolved Metals by EPA Method 6010B												
7070058-MSD1												
Selenium	ND	0.0487		mg/L	0.0500	97%	75 - 125	3	20	7070058	NQF3410-01	07/02/07 15:13
Silver	ND	0.100		mg/L	0.100	100%	75 - 125	3	20	7070058	NQF3410-01	07/02/07 15:13
Mercury by EPA Methods 7470A/7471A												
7070075-MSD1												
Mercury	ND	0.185		mg/kg dry	0.170	109%	60 - 149	0.9	26	7070075	NQF3703-15	07/06/07 08:39
7070076-MSD1												
Mercury	0.0748	0.288		mg/kg dry	0.195	110%	60 - 149	0.3	26	7070076	NQF3703-26	07/05/07 10:02
7070078-MSD1												
Mercury	0.0519	0.318		mg/kg dry	0.210	126%	60 - 149	1	26	7070078	NQF3703-27	07/05/07 11:28
7070081-MSD1												
Mercury	ND	0.00106		mg/L	0.00100	106%	63 - 138	13	22	7070081	NQF3703-35	07/05/07 08:35
Dissolved Mercury by EPA Methods 7470A/7471A												
7070083-MSD1												
Mercury	ND	0.00115		mg/L	0.00100	115%	63 - 138	4	22	7070083	NQF3703-37	07/05/07 11:31
Organochlorine Pesticides by EPA Method 8081A												
7065631-MSD1												
Aldrin	ND	0.0174		mg/kg dry	0.0193	90%	26 - 148	19	50	7065631	NQF3703-26	07/07/07 03:45
delta-BHC	ND	0.0163		mg/kg dry	0.0193	84%	19 - 146	14	50	7065631	NQF3703-26	07/07/07 03:45
alpha-BHC	ND	0.0193		mg/kg dry	0.0193	100%	25 - 154	8	50	7065631	NQF3703-26	07/07/07 03:45
beta-BHC	ND	0.0232		mg/kg dry	0.0193	120%	19 - 167	17	50	7065631	NQF3703-26	07/07/07 03:45
gamma-BHC (Lindane)	ND	0.0182		mg/kg dry	0.0193	94%	25 - 162	18	50	7065631	NQF3703-26	07/07/07 03:45
alpha-Chlordane	ND	0.0166		mg/kg dry	0.0193	86%	27 - 149	8	50	7065631	NQF3703-26	07/07/07 03:45
gamma-Chlordane	ND	0.0163		mg/kg dry	0.0193	84%	29 - 148	8	50	7065631	NQF3703-26	07/07/07 03:45
4,4'-DDD	ND	0.0201		mg/kg dry	0.0193	104%	17 - 170	0.6	50	7065631	NQF3703-26	07/07/07 03:45
4,4'-DDE	ND	0.0240		mg/kg dry	0.0193	124%	16 - 166	8	50	7065631	NQF3703-26	07/07/07 03:45
4,4'-DDT	ND	0.0182		mg/kg dry	0.0193	94%	10 - 179	7	50	7065631	NQF3703-26	07/07/07 03:45
Dieldrin	ND	0.0170		mg/kg dry	0.0193	88%	24 - 156	7	50	7065631	NQF3703-26	07/07/07 03:45
Endosulfan I	ND	0.0139		mg/kg dry	0.0193	72%	33 - 156	7	50	7065631	NQF3703-26	07/07/07 03:45
Endosulfan II	ND	0.0166		mg/kg dry	0.0193	86%	19 - 160	5	50	7065631	NQF3703-26	07/07/07 03:45
Endosulfan sulfate	ND	0.0155		mg/kg dry	0.0193	80%	18 - 164	13	50	7065631	NQF3703-26	07/07/07 03:45
Endrin	ND	0.0178		mg/kg dry	0.0193	92%	18 - 167	7	50	7065631	NQF3703-26	07/07/07 03:45
Endrin aldehyde	ND	0.0124		mg/kg dry	0.0193	64%	15 - 153	16	50	7065631	NQF3703-26	07/07/07 03:45
Endrin ketone	ND	0.0166		mg/kg dry	0.0193	86%	17 - 168	10	50	7065631	NQF3703-26	07/07/07 03:45
Heptachlor	ND	0.0182		mg/kg dry	0.0193	94%	20 - 157	18	50	7065631	NQF3703-26	07/07/07 03:45
Heptachlor epoxide	ND	0.0166		mg/kg dry	0.0193	86%	24 - 159	10	50	7065631	NQF3703-26	07/07/07 03:45
Methoxychlor	ND	0.0178		mg/kg dry	0.0193	92%	19 - 180	13	50	7065631	NQF3703-26	07/07/07 03:45

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Organochlorine Pesticides by EPA Method 8081A												
7065631-MSD1												
Surrogate: Tetrachloro-meta-xylene		0.0635		mg/kg dry	0.0387	164%	27 - 165			7065631	NQF3703-26	07/07/07 03:45
Surrogate: Decachlorobiphenyl		0.0561		mg/kg dry	0.0387	145%	37 - 171			7065631	NQF3703-26	07/07/07 03:45
7070488-MSD1												
Aldrin	ND	0.0285		mg/kg dry	0.0212	134%	26 - 148	16	50	7070488	NQF3703-27	07/08/07 10:27
delta-BHC	ND	0.0246		mg/kg dry	0.0212	116%	19 - 146	20	50	7070488	NQF3703-27	07/08/07 10:27
alpha-BHC	ND	0.0161		mg/kg dry	0.0212	76%	25 - 154	11	50	7070488	NQF3703-27	07/08/07 10:27
beta-BHC	ND	0.0531	M1	mg/kg dry	0.0212	250%	19 - 167	16	50	7070488	NQF3703-27	07/08/07 10:27
gamma-BHC (Lindane)	ND	0.0204		mg/kg dry	0.0212	96%	25 - 162	10	50	7070488	NQF3703-27	07/08/07 10:27
alpha-Chlordane	ND	0.0191		mg/kg dry	0.0212	90%	27 - 149	2	50	7070488	NQF3703-27	07/08/07 10:27
gamma-Chlordane	ND	0.0157		mg/kg dry	0.0212	74%	29 - 148	9	50	7070488	NQF3703-27	07/08/07 10:27
4,4'-DDD	ND	0.0310		mg/kg dry	0.0212	146%	17 - 170	2	50	7070488	NQF3703-27	07/08/07 10:27
4,4'-DDE	ND	0.0293		mg/kg dry	0.0212	138%	16 - 166	3	50	7070488	NQF3703-27	07/08/07 10:27
4,4'-DDT	ND	0.0200		mg/kg dry	0.0212	94%	10 - 179	29	50	7070488	NQF3703-27	07/08/07 10:27
Dieldrin	ND	0.0238		mg/kg dry	0.0212	112%	24 - 156	13	50	7070488	NQF3703-27	07/08/07 10:27
Endosulfan I	ND	0.0149		mg/kg dry	0.0212	70%	33 - 156	2	50	7070488	NQF3703-27	07/08/07 10:27
Endosulfan II	ND	0.0161		mg/kg dry	0.0212	76%	19 - 160	8	50	7070488	NQF3703-27	07/08/07 10:27
Endosulfan sulfate	ND	0.0187		mg/kg dry	0.0212	88%	18 - 164	0.7	50	7070488	NQF3703-27	07/08/07 10:27
Endrin	ND	0.0208		mg/kg dry	0.0212	98%	18 - 167	10	50	7070488	NQF3703-27	07/08/07 10:27
Endrin aldehyde	ND	0.0166		mg/kg dry	0.0212	78%	15 - 153	8	50	7070488	NQF3703-27	07/08/07 10:27
Endrin ketone	ND	0.0200		mg/kg dry	0.0212	94%	17 - 168	19	50	7070488	NQF3703-27	07/08/07 10:27
Heptachlor	ND	0.0212		mg/kg dry	0.0212	100%	20 - 157	31	50	7070488	NQF3703-27	07/08/07 10:27
Heptachlor epoxide	ND	0.0191		mg/kg dry	0.0212	90%	24 - 159	0.6	50	7070488	NQF3703-27	07/08/07 10:27
Methoxychlor	ND	0.0191		mg/kg dry	0.0212	90%	19 - 180	9	50	7070488	NQF3703-27	07/08/07 10:27
Surrogate: Tetrachloro-meta-xylene		0.0595		mg/kg dry	0.0425	140%	27 - 165			7070488	NQF3703-27	07/08/07 10:27
Surrogate: Decachlorobiphenyl		0.0535		mg/kg dry	0.0425	126%	37 - 171			7070488	NQF3703-27	07/08/07 10:27
Chlorinated Herbicides by EPA Method 8151A												
7065630-MSD1												
2,4-D	ND	0.179		mg/kg dry	0.189	95%	16 - 168	39	50	7065630	NQF3703-26	07/06/07 18:37
2,4,5-T	ND	0.210		mg/kg dry	0.189	111%	10 - 189	34	50	7065630	NQF3703-26	07/06/07 18:37
2,4,5-TP (Silvex)	ND	0.173		mg/kg dry	0.189	91%	11 - 144	34	50	7065630	NQF3703-26	07/06/07 18:37
Surrogate: Dichloroacetic Acid		0.129		mg/kg dry	0.189	68%	27 - 162			7065630	NQF3703-26	07/06/07 18:37
7070235-MSD1												
2,4-D	ND	0.222		mg/kg dry	0.212	105%	16 - 168	5	50	7070235	NQF3703-27	07/09/07 14:44
2,4,5-T	ND	0.246		mg/kg dry	0.212	116%	10 - 189	11	50	7070235	NQF3703-27	07/09/07 14:44
2,4,5-TP (Silvex)	ND	0.227		mg/kg dry	0.212	107%	11 - 144	5	50	7070235	NQF3703-27	07/09/07 14:44
Surrogate: Dichloroacetic Acid		0.150		mg/kg dry	0.212	71%	27 - 162			7070235	NQF3703-27	07/09/07 14:44
7070741-MSD1												
2,4-D	ND	0.0860		mg/kg dry	0.177	49%	16 - 168	24	50	7070741	NQF3703-10	07/11/07 02:21

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Chlorinated Herbicides by EPA Method 8151A												
7070741-MSD1												
2,4,5-T	ND	0.0867		mg/kg dry	0.177	49%	10 - 189	37	50	7070741	NQF3703-10	07/11/07 02:21
2,4,5-TP (Silvex)	ND	0.0804		mg/kg dry	0.177	45%	11 - 144	26	50	7070741	NQF3703-10	07/11/07 02:21
Surrogate: Dichloroacetic Acid		0.0358	ZX	mg/kg dry	0.177	20%	27 - 162			7070741	NQF3703-10	07/11/07 02:21
Volatile Organic Compounds by EPA Method 8260B												
7065514-MSD1												
Acetone	28.4	227		ug/kg	250	79%	10 - 176	17	50	7065514	NQF3703-27	07/06/07 03:50
Benzene	ND	22.4		ug/kg	50.0	45%	41 - 134	12	42	7065514	NQF3703-27	07/06/07 03:50
Bromobenzene	ND	4.92	M8	ug/kg	50.0	10%	17 - 148	22	48	7065514	NQF3703-27	07/06/07 03:50
Bromochloromethane	ND	28.6		ug/kg	50.0	57%	42 - 142	4	46	7065514	NQF3703-27	07/06/07 03:50
Bromodichloromethane	ND	22.0		ug/kg	50.0	44%	38 - 139	9	49	7065514	NQF3703-27	07/06/07 03:50
Bromoform	ND	15.5		ug/kg	50.0	31%	18 - 146	12	45	7065514	NQF3703-27	07/06/07 03:50
Bromomethane	ND	39.2		ug/kg	50.0	78%	14 - 161	1	40	7065514	NQF3703-27	07/06/07 03:50
2-Butanone	ND	206		ug/kg	250	82%	17 - 163	18	40	7065514	NQF3703-27	07/06/07 03:50
sec-Butylbenzene	ND	4.76	M8	ug/kg	50.0	10%	11 - 157	28	50	7065514	NQF3703-27	07/06/07 03:50
n-Butylbenzene	ND	4.29	M8, R2	ug/kg	50.0	9%	10 - 156	55	50	7065514	NQF3703-27	07/06/07 03:50
tert-Butylbenzene	ND	5.20	M8	ug/kg	50.0	10%	17 - 154	11	50	7065514	NQF3703-27	07/06/07 03:50
Carbon disulfide	ND	27.6		ug/kg	50.0	55%	35 - 129	5	42	7065514	NQF3703-27	07/06/07 03:50
Carbon Tetrachloride	ND	27.2		ug/kg	50.0	54%	45 - 138	14	45	7065514	NQF3703-27	07/06/07 03:50
Chlorobenzene	ND	6.32	M8	ug/kg	50.0	13%	30 - 139	33	41	7065514	NQF3703-27	07/06/07 03:50
Chlorodibromomethane	ND	16.8		ug/kg	50.0	34%	33 - 146	10	50	7065514	NQF3703-27	07/06/07 03:50
Chloroethane	ND	36.5		ug/kg	50.0	73%	21 - 158	3	45	7065514	NQF3703-27	07/06/07 03:50
Chloroform	ND	27.3		ug/kg	50.0	55%	46 - 136	5	41	7065514	NQF3703-27	07/06/07 03:50
Chloromethane	ND	32.9		ug/kg	50.0	66%	30 - 142	28	41	7065514	NQF3703-27	07/06/07 03:50
2-Chlorotoluene	ND	4.40	M8	ug/kg	50.0	9%	16 - 158	4	50	7065514	NQF3703-27	07/06/07 03:50
4-Chlorotoluene	ND	3.62	M8	ug/kg	50.0	7%	11 - 156	2	50	7065514	NQF3703-27	07/06/07 03:50
1,2-Dibromo-3-chloropropane	ND	14.8		ug/kg	50.0	30%	10 - 158	12	47	7065514	NQF3703-27	07/06/07 03:50
1,2-Dibromoethane (EDB)	ND	15.8	M8	ug/kg	50.0	32%	33 - 147	15	50	7065514	NQF3703-27	07/06/07 03:50
Dibromomethane	ND	23.2		ug/kg	50.0	46%	35 - 143	11	46	7065514	NQF3703-27	07/06/07 03:50
1,4-Dichlorobenzene	ND	3.75	M8	ug/kg	50.0	8%	10 - 146	8	50	7065514	NQF3703-27	07/06/07 03:50
1,3-Dichlorobenzene	ND	3.97	M8	ug/kg	50.0	8%	10 - 149	5	50	7065514	NQF3703-27	07/06/07 03:50
1,2-Dichlorobenzene	ND	5.10		ug/kg	50.0	10%	10 - 148	15	50	7065514	NQF3703-27	07/06/07 03:50
Dichlorodifluoromethane	ND	29.5		ug/kg	50.0	59%	10 - 156	5	48	7065514	NQF3703-27	07/06/07 03:50
1,1-Dichloroethane	ND	33.2		ug/kg	50.0	66%	48 - 135	4	40	7065514	NQF3703-27	07/06/07 03:50
1,2-Dichloroethane	ND	25.8		ug/kg	50.0	52%	39 - 143	2	42	7065514	NQF3703-27	07/06/07 03:50
cis-1,2-Dichloroethene	ND	25.0		ug/kg	50.0	50%	45 - 135	9	41	7065514	NQF3703-27	07/06/07 03:50
1,1-Dichloroethene	ND	34.0		ug/kg	50.0	68%	47 - 131	10	40	7065514	NQF3703-27	07/06/07 03:50
trans-1,2-Dichloroethene	ND	23.7		ug/kg	50.0	47%	45 - 135	14	41	7065514	NQF3703-27	07/06/07 03:50
1,3-Dichloropropane	ND	17.4	M8	ug/kg	50.0	35%	36 - 142	10	50	7065514	NQF3703-27	07/06/07 03:50
1,2-Dichloropropane	ND	22.7		ug/kg	50.0	45%	43 - 142	7	42	7065514	NQF3703-27	07/06/07 03:50
2,2-Dichloropropane	ND	30.2		ug/kg	50.0	60%	39 - 142	6	45	7065514	NQF3703-27	07/06/07 03:50

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
7065514-MSD1												
cis-1,3-Dichloropropene	ND	13.0	M8	ug/kg	50.0	26%	35 - 143	18	50	7065514	NQF3703-27	07/06/07 03:50
trans-1,3-Dichloropropene	ND	9.84	M8	ug/kg	50.0	20%	28 - 145	24	50	7065514	NQF3703-27	07/06/07 03:50
1,1-Dichloropropene	ND	21.5	M8	ug/kg	50.0	43%	46 - 140	19	44	7065514	NQF3703-27	07/06/07 03:50
Ethylbenzene	ND	5.62	M8	ug/kg	50.0	11%	27 - 143	36	42	7065514	NQF3703-27	07/06/07 03:50
Hexachlorobutadiene	ND	4.91	M8, R2	ug/kg	50.0	10%	10 - 147	62	50	7065514	NQF3703-27	07/06/07 03:50
2-Hexanone	ND	146		ug/kg	250	58%	15 - 159	14	43	7065514	NQF3703-27	07/06/07 03:50
Isopropylbenzene	ND	4.69	M8	ug/kg	50.0	9%	20 - 140	20	44	7065514	NQF3703-27	07/06/07 03:50
p-Isopropyltoluene	ND	4.50	M8	ug/kg	50.0	9%	10 - 150	48	50	7065514	NQF3703-27	07/06/07 03:50
Methyl tert-Butyl Ether	ND	35.5		ug/kg	50.0	71%	26 - 147	11	47	7065514	NQF3703-27	07/06/07 03:50
Methylene Chloride	ND	27.3		ug/kg	50.0	55%	25 - 160	0.6	43	7065514	NQF3703-27	07/06/07 03:50
4-Methyl-2-pentanone	ND	155		ug/kg	250	62%	20 - 163	15	41	7065514	NQF3703-27	07/06/07 03:50
Naphthalene	ND	5.68		ug/kg	50.0	11%	10 - 153	1	50	7065514	NQF3703-27	07/06/07 03:50
n-Propylbenzene	ND	3.88	M8	ug/kg	50.0	8%	12 - 160	0.5	50	7065514	NQF3703-27	07/06/07 03:50
Styrene	ND	2.56	M8, R2	ug/kg	50.0	5%	10 - 152	78	50	7065514	NQF3703-27	07/06/07 03:50
1,1,1,2-Tetrachloroethane	ND	12.4	M8	ug/kg	50.0	25%	36 - 141	17	50	7065514	NQF3703-27	07/06/07 03:50
1,1,2,2-Tetrachloroethane	ND	16.9		ug/kg	50.0	34%	20 - 160	7	50	7065514	NQF3703-27	07/06/07 03:50
Tetrachloroethene	ND	8.45	M8	ug/kg	50.0	17%	32 - 143	32	50	7065514	NQF3703-27	07/06/07 03:50
Toluene	ND	10.9	M8	ug/kg	50.0	22%	31 - 145	27	50	7065514	NQF3703-27	07/06/07 03:50
1,2,3-Trichlorobenzene	ND	5.98		ug/kg	50.0	12%	10 - 147	36	48	7065514	NQF3703-27	07/06/07 03:50
1,2,4-Trichlorobenzene	ND	5.40		ug/kg	50.0	11%	10 - 152	33	48	7065514	NQF3703-27	07/06/07 03:50
1,1,2-Trichloroethane	ND	20.2		ug/kg	50.0	40%	37 - 145	4	50	7065514	NQF3703-27	07/06/07 03:50
1,1,1-Trichloroethane	ND	29.5		ug/kg	50.0	59%	48 - 135	10	50	7065514	NQF3703-27	07/06/07 03:50
Trichloroethene	ND	16.2	M8	ug/kg	50.0	32%	40 - 141	24	50	7065514	NQF3703-27	07/06/07 03:50
Trichlorofluoromethane	ND	34.7		ug/kg	50.0	69%	34 - 144	6	50	7065514	NQF3703-27	07/06/07 03:50
1,2,3-Trichloropropane	ND	12.9		ug/kg	50.0	26%	10 - 214	9	49	7065514	NQF3703-27	07/06/07 03:50
1,3,5-Trimethylbenzene	ND	4.44	M8	ug/kg	50.0	9%	15 - 157	15	50	7065514	NQF3703-27	07/06/07 03:50
1,2,4-Trimethylbenzene	ND	4.20	M8	ug/kg	50.0	8%	10 - 156	22	50	7065514	NQF3703-27	07/06/07 03:50
Vinyl chloride	ND	32.9		ug/kg	50.0	66%	42 - 139	6	41	7065514	NQF3703-27	07/06/07 03:50
Xylenes, total	ND	15.6	M8	ug/kg	150	10%	27 - 140	30	50	7065514	NQF3703-27	07/06/07 03:50
Surrogate: 1,2-Dichloroethane-d4		50.0		ug/kg	50.0	100%	54 - 145			7065514	NQF3703-27	07/06/07 03:50
Surrogate: Dibromofluoromethane		51.4		ug/kg	50.0	103%	67 - 129			7065514	NQF3703-27	07/06/07 03:50
Surrogate: Toluene-d8		49.4		ug/kg	50.0	99%	66 - 142			7065514	NQF3703-27	07/06/07 03:50
Surrogate: 4-Bromofluorobenzene		49.9		ug/kg	50.0	100%	68 - 150			7065514	NQF3703-27	07/06/07 03:50
Semivolatile Organic Compounds by EPA Method 8270C												
7070253-MSD1												
Acenaphthene	ND	1.65		mg/kg dry	2.08	79%	41 - 112	10	25	7070253	NQF3703-27	07/07/07 17:56
Acenaphthylene	ND	1.65		mg/kg dry	2.08	79%	37 - 115	8	50	7070253	NQF3703-27	07/07/07 17:56
Anthracene	ND	1.78		mg/kg dry	2.08	85%	29 - 133	9	50	7070253	NQF3703-27	07/07/07 17:56
Benzo (a) anthracene	ND	1.71		mg/kg dry	2.08	82%	42 - 116	7	50	7070253	NQF3703-27	07/07/07 17:56
Benzo (a) pyrene	ND	1.78		mg/kg dry	2.08	85%	37 - 126	6	50	7070253	NQF3703-27	07/07/07 17:56

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7070253-MSD1												
Benzo (b) fluoranthene	ND	1.77		mg/kg dry	2.08	85%	33 - 126	5	50	7070253	NQF3703-27	07/07/07 17:56
Benzo (g,h,i) perylene	ND	1.82		mg/kg dry	2.08	87%	19 - 128	8	50	7070253	NQF3703-27	07/07/07 17:56
Benzo (k) fluoranthene	ND	1.56		mg/kg dry	2.08	75%	37 - 123	22	33	7070253	NQF3703-27	07/07/07 17:56
4-Bromophenyl phenyl ether	ND	1.59		mg/kg dry	2.08	76%	33 - 104	9	50	7070253	NQF3703-27	07/07/07 17:56
Butyl benzyl phthalate	ND	1.93		mg/kg dry	2.08	93%	35 - 136	7	50	7070253	NQF3703-27	07/07/07 17:56
Carbazole	ND	1.63		mg/kg dry	2.08	78%	35 - 128	12	50	7070253	NQF3703-27	07/07/07 17:56
4-Chloro-3-methylphenol	ND	1.53		mg/kg dry	2.08	74%	35 - 117	14	50	7070253	NQF3703-27	07/07/07 17:56
4-Chloroaniline	ND	1.50		mg/kg dry	2.08	72%	26 - 106	6	25	7070253	NQF3703-27	07/07/07 17:56
Bis(2-chloroethoxy)methane	ND	1.49		mg/kg dry	2.08	72%	42 - 106	6	27	7070253	NQF3703-27	07/07/07 17:56
Bis(2-chloroethyl)ether	ND	1.59		mg/kg dry	2.08	76%	29 - 108	6	42	7070253	NQF3703-27	07/07/07 17:56
Bis(2-chloroisopropyl)ether	ND	1.64		mg/kg dry	2.08	79%	35 - 112	4	50	7070253	NQF3703-27	07/07/07 17:56
2-Chloronaphthalene	ND	1.71		mg/kg dry	2.08	82%	38 - 112	7	50	7070253	NQF3703-27	07/07/07 17:56
2-Chlorophenol	ND	1.68		mg/kg dry	2.08	81%	38 - 109	12	30	7070253	NQF3703-27	07/07/07 17:56
4-Chlorophenyl phenyl ether	ND	1.71		mg/kg dry	2.08	82%	39 - 112	9	27	7070253	NQF3703-27	07/07/07 17:56
Chrysene	ND	1.87		mg/kg dry	2.08	90%	41 - 115	11	50	7070253	NQF3703-27	07/07/07 17:56
Dibenz (a,h) anthracene	ND	1.82		mg/kg dry	2.08	87%	29 - 124	7	50	7070253	NQF3703-27	07/07/07 17:56
Dibenzofuran	ND	1.73		mg/kg dry	2.08	83%	40 - 114	9	50	7070253	NQF3703-27	07/07/07 17:56
Di-n-butyl phthalate	ND	1.81		mg/kg dry	2.08	87%	35 - 128	11	50	7070253	NQF3703-27	07/07/07 17:56
1,4-Dichlorobenzene	ND	1.59		mg/kg dry	2.08	76%	27 - 107	9	40	7070253	NQF3703-27	07/07/07 17:56
1,2-Dichlorobenzene	ND	1.72		mg/kg dry	2.11	82%	31 - 109	7	45	7070253	NQF3703-27	07/07/07 17:56
1,3-Dichlorobenzene	ND	1.72		mg/kg dry	2.08	82%	27 - 106	6	39	7070253	NQF3703-27	07/07/07 17:56
3,3-Dichlorobenzidine	ND	1.44		mg/kg dry	2.08	69%	10 - 124	10	36	7070253	NQF3703-27	07/07/07 17:56
2,4-Dichlorophenol	ND	1.62		mg/kg dry	2.08	78%	41 - 115	8	28	7070253	NQF3703-27	07/07/07 17:56
Diethyl phthalate	ND	1.60		mg/kg dry	2.08	77%	39 - 117	11	25	7070253	NQF3703-27	07/07/07 17:56
2,4-Dimethylphenol	ND	1.70		mg/kg dry	2.08	82%	10 - 122	0.9	50	7070253	NQF3703-27	07/07/07 17:56
Dimethyl phthalate	ND	1.58		mg/kg dry	2.08	76%	33 - 114	8	50	7070253	NQF3703-27	07/07/07 17:56
4,6-Dinitro-2-methylphenol	ND	1.66		mg/kg dry	2.08	80%	10 - 135	12	32	7070253	NQF3703-27	07/07/07 17:56
2,4-Dinitrophenol	ND	1.87		mg/kg dry	2.08	89%	10 - 161	10	47	7070253	NQF3703-27	07/07/07 17:56
2,6-Dinitrotoluene	ND	1.67		mg/kg dry	2.08	80%	43 - 130	13	45	7070253	NQF3703-27	07/07/07 17:56
2,4-Dinitrotoluene	ND	1.80		mg/kg dry	2.08	86%	44 - 128	10	44	7070253	NQF3703-27	07/07/07 17:56
Di-n-octyl phthalate	ND	1.77		mg/kg dry	2.08	85%	27 - 146	10	50	7070253	NQF3703-27	07/07/07 17:56
Bis(2-ethylhexyl)phthalate	ND	1.85		mg/kg dry	2.08	89%	21 - 136	9	50	7070253	NQF3703-27	07/07/07 17:56
Fluoranthene	ND	1.64		mg/kg dry	2.08	79%	38 - 122	10	50	7070253	NQF3703-27	07/07/07 17:56
Fluorene	ND	1.63		mg/kg dry	2.08	78%	39 - 114	11	50	7070253	NQF3703-27	07/07/07 17:56
Hexachlorobenzene	ND	1.67		mg/kg dry	2.08	80%	46 - 119	10	23	7070253	NQF3703-27	07/07/07 17:56
Hexachlorobutadiene	ND	1.66		mg/kg dry	2.08	80%	26 - 112	5	34	7070253	NQF3703-27	07/07/07 17:56
Hexachlorocyclopentadiene	ND	1.44		mg/kg dry	2.08	69%	10 - 124	24	50	7070253	NQF3703-27	07/07/07 17:56
Hexachloroethane	ND	1.60		mg/kg dry	2.08	77%	23 - 107	9	46	7070253	NQF3703-27	07/07/07 17:56
Indeno (1,2,3-cd) pyrene	ND	1.79		mg/kg dry	2.08	86%	24 - 127	8	50	7070253	NQF3703-27	07/07/07 17:56
Isophorone	ND	1.59		mg/kg dry	2.08	76%	33 - 116	6	50	7070253	NQF3703-27	07/07/07 17:56
2-Methylnaphthalene	ND	1.55		mg/kg dry	2.08	74%	31 - 110	7	50	7070253	NQF3703-27	07/07/07 17:56

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7070253-MSD1												
2-Methylphenol	ND	1.71		mg/kg dry	2.08	82%	33 - 116	10	50	7070253	NQF3703-27	07/07/07 17:56
3/4-Methylphenol	ND	1.89		mg/kg dry	2.08	91%	27 - 133	10	50	7070253	NQF3703-27	07/07/07 17:56
Naphthalene	ND	1.45		mg/kg dry	2.08	69%	30 - 102	6	50	7070253	NQF3703-27	07/07/07 17:56
3-Nitroaniline	ND	1.59		mg/kg dry	2.08	76%	33 - 121	12	50	7070253	NQF3703-27	07/07/07 17:56
2-Nitroaniline	ND	1.72		mg/kg dry	2.08	82%	41 - 119	10	50	7070253	NQF3703-27	07/07/07 17:56
4-Nitroaniline	ND	1.56		mg/kg dry	2.08	75%	25 - 122	14	50	7070253	NQF3703-27	07/07/07 17:56
Nitrobenzene	ND	1.51		mg/kg dry	2.08	72%	32 - 108	4	50	7070253	NQF3703-27	07/07/07 17:56
4-Nitrophenol	ND	1.67		mg/kg dry	2.08	80%	20 - 155	11	50	7070253	NQF3703-27	07/07/07 17:56
2-Nitrophenol	ND	1.56		mg/kg dry	2.08	75%	35 - 116	6	50	7070253	NQF3703-27	07/07/07 17:56
N-Nitrosodiphenylamine	ND	1.90		mg/kg dry	2.08	91%	58 - 182	12	50	7070253	NQF3703-27	07/07/07 17:56
N-Nitrosodi-n-propylamine	ND	1.53		mg/kg dry	2.08	73%	33 - 118	12	50	7070253	NQF3703-27	07/07/07 17:56
Pentachlorophenol	ND	1.98		mg/kg dry	2.08	95%	10 - 147	11	50	7070253	NQF3703-27	07/07/07 17:56
Phenanthrene	ND	1.70		mg/kg dry	2.08	82%	39 - 116	10	50	7070253	NQF3703-27	07/07/07 17:56
Phenol	ND	1.61		mg/kg dry	2.08	77%	31 - 114	10	50	7070253	NQF3703-27	07/07/07 17:56
Pyrene	ND	1.78		mg/kg dry	2.08	86%	36 - 130	7	50	7070253	NQF3703-27	07/07/07 17:56
Pyridine	ND	1.24		mg/kg dry	2.08	59%	10 - 98	4	50	7070253	NQF3703-27	07/07/07 17:56
1,2,4-Trichlorobenzene	ND	1.59		mg/kg dry	2.08	76%	24 - 108	6	33	7070253	NQF3703-27	07/07/07 17:56
1-Methylnaphthalene	ND	1.44		mg/kg dry	2.11	69%	34 - 102	7	50	7070253	NQF3703-27	07/07/07 17:56
2,4,6-Trichlorophenol	ND	1.66		mg/kg dry	2.08	80%	44 - 113	9	28	7070253	NQF3703-27	07/07/07 17:56
2,4,5-Trichlorophenol	ND	1.82		mg/kg dry	2.08	87%	47 - 119	10	28	7070253	NQF3703-27	07/07/07 17:56
Surrogate: Terphenyl-d14		1.80		mg/kg dry	2.08	86%	49 - 123			7070253	NQF3703-27	07/07/07 17:56
Surrogate: 2,4,6-Tribromophenol		3.60		mg/kg dry	4.17	86%	26 - 116			7070253	NQF3703-27	07/07/07 17:56
Surrogate: Phenol-d5		3.33		mg/kg dry	4.19	80%	24 - 103			7070253	NQF3703-27	07/07/07 17:56
Surrogate: 2-Fluorobiphenyl		1.67		mg/kg dry	2.08	80%	30 - 93			7070253	NQF3703-27	07/07/07 17:56
Surrogate: 2-Fluorophenol		3.42		mg/kg dry	4.17	82%	27 - 93			7070253	NQF3703-27	07/07/07 17:56
Surrogate: Nitrobenzene-d5		1.50		mg/kg dry	2.08	72%	34 - 87			7070253	NQF3703-27	07/07/07 17:56
7071161-MSD1												
Acenaphthene	ND	1.34		mg/kg dry	1.68	80%	41 - 112	9	25	7071161	NQG0461-01	07/11/07 00:28
Acenaphthylene	ND	1.33		mg/kg dry	1.68	79%	37 - 115	10	50	7071161	NQG0461-01	07/11/07 00:28
Anthracene	ND	1.46		mg/kg dry	1.68	87%	29 - 133	10	50	7071161	NQG0461-01	07/11/07 00:28
Benzo (a) anthracene	ND	1.29		mg/kg dry	1.68	77%	42 - 116	5	50	7071161	NQG0461-01	07/11/07 00:28
Benzo (a) pyrene	ND	1.32		mg/kg dry	1.68	78%	37 - 126	0.9	50	7071161	NQG0461-01	07/11/07 00:28
Benzo (b) fluoranthene	ND	1.08		mg/kg dry	1.68	64%	33 - 126	4	50	7071161	NQG0461-01	07/11/07 00:28
Benzo (g,h,i) perylene	ND	1.31		mg/kg dry	1.68	78%	19 - 128	4	50	7071161	NQG0461-01	07/11/07 00:28
Benzo (k) fluoranthene	ND	1.45		mg/kg dry	1.68	86%	37 - 123	10	33	7071161	NQG0461-01	07/11/07 00:28
4-Bromophenyl phenyl ether	ND	1.04		mg/kg dry	1.68	62%	33 - 104	4	50	7071161	NQG0461-01	07/11/07 00:28
Butyl benzyl phthalate	ND	1.27		mg/kg dry	1.68	76%	35 - 136	6	50	7071161	NQG0461-01	07/11/07 00:28
Carbazole	ND	1.35		mg/kg dry	1.68	80%	35 - 128	5	50	7071161	NQG0461-01	07/11/07 00:28
4-Chloro-3-methylphenol	ND	1.30		mg/kg dry	1.68	78%	35 - 117	3	50	7071161	NQG0461-01	07/11/07 00:28
4-Chloroaniline	ND	1.27		mg/kg dry	1.68	76%	26 - 106	9	25	7071161	NQG0461-01	07/11/07 00:28

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7071161-MSD1												
Bis(2-chloroethoxy)methane	ND	1.13		mg/kg dry	1.68	68%	42 - 106	7	27	7071161	NQG0461-01	07/11/07 00:28
Bis(2-chloroethyl)ether	ND	1.13		mg/kg dry	1.68	67%	29 - 108	17	42	7071161	NQG0461-01	07/11/07 00:28
Bis(2-chloroisopropyl)ether	ND	1.16		mg/kg dry	1.68	69%	35 - 112	4	50	7071161	NQG0461-01	07/11/07 00:28
2-Chloronaphthalene	ND	1.27		mg/kg dry	1.68	76%	38 - 112	8	50	7071161	NQG0461-01	07/11/07 00:28
2-Chlorophenol	ND	1.22		mg/kg dry	1.68	73%	38 - 109	6	30	7071161	NQG0461-01	07/11/07 00:28
4-Chlorophenyl phenyl ether	ND	1.26		mg/kg dry	1.68	75%	39 - 112	7	27	7071161	NQG0461-01	07/11/07 00:28
Chrysene	ND	1.28		mg/kg dry	1.68	76%	41 - 115	3	50	7071161	NQG0461-01	07/11/07 00:28
Dibenz (a,h) anthracene	ND	1.31		mg/kg dry	1.68	78%	29 - 124	5	50	7071161	NQG0461-01	07/11/07 00:28
Dibenzofuran	ND	1.35		mg/kg dry	1.68	80%	40 - 114	6	50	7071161	NQG0461-01	07/11/07 00:28
Di-n-butyl phthalate	ND	1.32		mg/kg dry	1.68	78%	35 - 128	9	50	7071161	NQG0461-01	07/11/07 00:28
1,4-Dichlorobenzene	ND	1.11		mg/kg dry	1.68	66%	27 - 107	0.3	40	7071161	NQG0461-01	07/11/07 00:28
1,2-Dichlorobenzene	ND	1.15		mg/kg dry	1.70	68%	31 - 109	3	45	7071161	NQG0461-01	07/11/07 00:28
1,3-Dichlorobenzene	ND	1.15		mg/kg dry	1.68	69%	27 - 106	3	39	7071161	NQG0461-01	07/11/07 00:28
3,3-Dichlorobenzidine	ND	1.26		mg/kg dry	1.68	75%	10 - 124	6	36	7071161	NQG0461-01	07/11/07 00:28
2,4-Dichlorophenol	ND	1.24		mg/kg dry	1.68	74%	41 - 115	6	28	7071161	NQG0461-01	07/11/07 00:28
Diethyl phthalate	ND	1.22		mg/kg dry	1.68	73%	39 - 117	7	25	7071161	NQG0461-01	07/11/07 00:28
2,4-Dimethylphenol	ND	1.49		mg/kg dry	1.68	89%	10 - 122	4	50	7071161	NQG0461-01	07/11/07 00:28
Dimethyl phthalate	ND	1.27		mg/kg dry	1.68	76%	33 - 114	8	50	7071161	NQG0461-01	07/11/07 00:28
4,6-Dinitro-2-methylphenol	ND	1.17		mg/kg dry	1.68	70%	10 - 135	4	32	7071161	NQG0461-01	07/11/07 00:28
2,4-Dinitrophenol	ND	1.19		mg/kg dry	1.68	71%	10 - 161	2	47	7071161	NQG0461-01	07/11/07 00:28
2,6-Dinitrotoluene	ND	1.29		mg/kg dry	1.68	77%	43 - 130	5	45	7071161	NQG0461-01	07/11/07 00:28
2,4-Dinitrotoluene	ND	1.36		mg/kg dry	1.68	81%	44 - 128	10	44	7071161	NQG0461-01	07/11/07 00:28
Di-n-octyl phthalate	ND	1.09		mg/kg dry	1.68	65%	27 - 146	9	50	7071161	NQG0461-01	07/11/07 00:28
Bis(2-ethylhexyl)phthalate	ND	1.21		mg/kg dry	1.68	72%	21 - 136	6	50	7071161	NQG0461-01	07/11/07 00:28
Fluoranthene	0.0482	1.39		mg/kg dry	1.68	80%	38 - 122	7	50	7071161	NQG0461-01	07/11/07 00:28
Fluorene	ND	1.31		mg/kg dry	1.68	78%	39 - 114	11	50	7071161	NQG0461-01	07/11/07 00:28
Hexachlorobenzene	ND	1.35		mg/kg dry	1.68	80%	46 - 119	7	23	7071161	NQG0461-01	07/11/07 00:28
Hexachlorobutadiene	ND	1.40		mg/kg dry	1.68	84%	26 - 112	15	34	7071161	NQG0461-01	07/11/07 00:28
Hexachlorocyclopentadiene	ND	1.35		mg/kg dry	1.68	81%	10 - 124	12	50	7071161	NQG0461-01	07/11/07 00:28
Hexachloroethane	ND	1.31		mg/kg dry	1.68	78%	23 - 107	1	46	7071161	NQG0461-01	07/11/07 00:28
Indeno (1,2,3-cd) pyrene	ND	1.35		mg/kg dry	1.68	80%	24 - 127	6	50	7071161	NQG0461-01	07/11/07 00:28
Isophorone	ND	1.11		mg/kg dry	1.68	66%	33 - 116	5	50	7071161	NQG0461-01	07/11/07 00:28
2-Methylnaphthalene	ND	1.28		mg/kg dry	1.68	76%	31 - 110	7	50	7071161	NQG0461-01	07/11/07 00:28
2-Methylphenol	ND	1.19		mg/kg dry	1.68	71%	33 - 116	2	50	7071161	NQG0461-01	07/11/07 00:28
3/4-Methylphenol	ND	1.25		mg/kg dry	1.68	74%	27 - 133	3	50	7071161	NQG0461-01	07/11/07 00:28
Naphthalene	ND	1.22		mg/kg dry	1.68	73%	30 - 102	7	50	7071161	NQG0461-01	07/11/07 00:28
3-Nitroaniline	ND	1.41		mg/kg dry	1.68	84%	33 - 121	16	50	7071161	NQG0461-01	07/11/07 00:28
2-Nitroaniline	ND	1.32		mg/kg dry	1.68	78%	41 - 119	2	50	7071161	NQG0461-01	07/11/07 00:28
4-Nitroaniline	ND	1.38		mg/kg dry	1.68	82%	25 - 122	8	50	7071161	NQG0461-01	07/11/07 00:28
Nitrobenzene	ND	1.21		mg/kg dry	1.68	72%	32 - 108	10	50	7071161	NQG0461-01	07/11/07 00:28
4-Nitrophenol	ND	1.35		mg/kg dry	1.68	81%	20 - 155	10	50	7071161	NQG0461-01	07/11/07 00:28

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Semivolatile Organic Compounds by EPA Method 8270C												
7071161-MSD1												
2-Nitrophenol	ND	1.30		mg/kg dry	1.68	77%	35 - 116	11	50	7071161	NQG0461-01	07/11/07 00:28
N-Nitrosodiphenylamine	ND	1.45		mg/kg dry	1.68	86%	58 - 182	8	50	7071161	NQG0461-01	07/11/07 00:28
N-Nitrosodi-n-propylamine	ND	1.17		mg/kg dry	1.68	70%	33 - 118	4	50	7071161	NQG0461-01	07/11/07 00:28
Pentachlorophenol	ND	1.49		mg/kg dry	1.68	89%	10 - 147	6	50	7071161	NQG0461-01	07/11/07 00:28
Phenanthrene	ND	1.30		mg/kg dry	1.68	78%	39 - 116	7	50	7071161	NQG0461-01	07/11/07 00:28
Phenol	ND	1.18		mg/kg dry	1.68	70%	31 - 114	6	50	7071161	NQG0461-01	07/11/07 00:28
Pyrene	ND	1.23		mg/kg dry	1.68	73%	36 - 130	7	50	7071161	NQG0461-01	07/11/07 00:28
Pyridine	ND	<0.0967	M8	mg/kg dry	1.68	0%	10 - 98		50	7071161	NQG0461-01	07/11/07 00:28
1,2,4-Trichlorobenzene	ND	1.16		mg/kg dry	1.68	69%	24 - 108	9	33	7071161	NQG0461-01	07/11/07 00:28
1-Methylnaphthalene	ND	1.09		mg/kg dry	1.70	64%	34 - 102	6	50	7071161	NQG0461-01	07/11/07 00:28
2,4,6-Trichlorophenol	ND	1.35		mg/kg dry	1.68	80%	44 - 113	7	28	7071161	NQG0461-01	07/11/07 00:28
2,4,5-Trichlorophenol	ND	1.33		mg/kg dry	1.68	79%	47 - 119	19	28	7071161	NQG0461-01	07/11/07 00:28
Surrogate: Terphenyl-d14		1.15		mg/kg dry	1.68	69%	49 - 123			7071161	NQG0461-01	07/11/07 00:28
Surrogate: 2,4,6-Tribromophenol		2.76		mg/kg dry	3.36	82%	26 - 116			7071161	NQG0461-01	07/11/07 00:28
Surrogate: Phenol-d5		2.25		mg/kg dry	3.37	67%	24 - 103			7071161	NQG0461-01	07/11/07 00:28
Surrogate: 2-Fluorobiphenyl		1.17		mg/kg dry	1.68	70%	30 - 93			7071161	NQG0461-01	07/11/07 00:28
Surrogate: 2-Fluorophenol		2.20		mg/kg dry	3.36	66%	27 - 93			7071161	NQG0461-01	07/11/07 00:28
Surrogate: Nitrobenzene-d5		1.17		mg/kg dry	1.68	70%	34 - 87			7071161	NQG0461-01	07/11/07 00:28

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

CERTIFICATION SUMMARY

TestAmerica - Nashville, TN

Method	Matrix	AIHA	Nelac	West Virginia
NA	Soil			
SW846 6010B	Soil	N/A	X	X
SW846 6010B	Water	N/A	X	X
SW846 7470A	Water	N/A	X	X
SW846 7471A	Soil		X	X
SW846 8081A	Soil	N/A	X	X
SW846 8081A	Water	N/A	X	X
SW846 8151A	Soil	N/A	X	X
SW846 8151A	Water	N/A	X	X
SW846 8260B	Soil	N/A	X	X
SW846 8260B	Water	N/A	X	X
SW846 8270C	Soil	N/A	X	X
SW-846	Soil			

Subcontracted Laboratories

Outreach Laboratory (11945)

311 North Aspen - Broken Arrow, OK 74012

Analysis Performed: Subcontract - Carbon 14

Samples: NQF3703-08, NQF3703-09, NQF3703-10, NQF3703-11, NQF3703-12, NQF3703-13, NQF3703-14, NQF3703-15, NQF3703-16, NQF3703-17, NQF3703-18

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	TRIAD Engineering, Inc (13592)	Work Order:	NQF3703
	P.O. Box 1435	Project Name:	WVU - Site Assessment
	St. Albans, WV 25177	Project Number:	04-07-0231
Attn	Greg Tieman	Received:	06/29/07 07:50

DATA QUALIFIERS AND DEFINITIONS

J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R2	The RPD exceeded the acceptance limit.
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
RL1	Reporting limit raised due to sample matrix effects.
Z10	Surrogate outside laboratory historical limits but within method guidelines. No effect on data.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

Client:	Test America
Client Project:	NQF3703
Lab Number:	20070627
Date Reported:	8/1/07
Date Received:	7/2/07
Page Number:	1 of 3

Analytical Report

	Method	Result	Units	DL	Prep Date	Analysis Date	Analyst
Lab ID:	**20070627-01**						
Client ID:	**NQF3703-08**						
Date Sampled:	**6/25/07 2:35:00 PM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 1.72	pCi/g	1.94	7/23/07	7/27/07	SD
Lab ID:	**20070627-02**						
Client ID:	**NQF3703-09**						
Date Sampled:	**6/25/07 2:36:00 PM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0.081 +/- 2.40	pCi/g	2.60	7/23/07	7/27/07	SD
Lab ID:	**20070627-03**						
Client ID:	**NQF3703-10**						
Date Sampled:	**6/26/07 8:40:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	1.54 +/- 1.35	pCi/g	1.35	7/23/07	7/27/07	SD
Lab ID:	**20070627-04**						
Client ID:	**NQF3703-11**						
Date Sampled:	**6/26/07 8:50:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 1.33	pCi/g	1.55	7/23/07	7/27/07	SD
Lab ID:	**20070627-05**						
Client ID:	**NQF3703-12**						
Date Sampled:	**6/26/07 8:51:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0.073 +/- 1.47	pCi/g	1.58	7/23/07	7/27/07	SD
Lab ID:	**20070627-06**						
Client ID:	**NQF3703-13**						
Date Sampled:	**6/26/07 9:10:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 2.80	pCi/g	3.17	7/23/07	7/27/07	SD

BDL = Below Detection Limit

Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

Client:	Test America
Client Project:	NQF3703
Lab Number:	20070627
Date Reported:	8/1/07
Date Received:	7/2/07
Page Number:	2 of 3

Analytical Report

	Method	Result	Units	DL	Prep Date	Analysis Date	Analyst
Lab ID:	**20070627-07**						
Client ID:	**NQF3703-14**						
Date Sampled:	**6/26/07 9:15:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 1.04	pCi/g	1.15	7/23/07	7/27/07	SD
Lab ID:	**20070627-08**						
Client ID:	**NQF3703-15**						
Date Sampled:	**6/26/07 9:25:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 1.51	pCi/g	1.69	7/23/07	7/27/07	SD
Lab ID:	**20070627-09**						
Client ID:	**NQF3703-16**						
Date Sampled:	**6/26/07 9:45:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0 +/- 2.15	pCi/g	2.38	7/23/07	7/27/07	SD
Lab ID:	**20070627-10**						
Client ID:	**NQF3703-17**						
Date Sampled:	**6/26/07 10:05:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0.851 +/- 0.913	pCi/g	0.929	7/23/07	7/27/07	SD
Lab ID:	**20070627-11**						
Client ID:	**NQF3703-18**						
Date Sampled:	**6/26/07 10:06:00 AM**						
Matrix:	**Solid**						
	Radiochemical Analyses						
Carbon-14	EPA EERF C01	0.507 +/- 1.41	pCi/g	1.49	7/23/07	7/27/07	SD

BDL = Below Detection Limit

Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

Client:	Test America
Client Project:	NQF3703
Lab Number:	20070627
Date Reported:	8/1/07
Date Received:	7/2/07
Page Number:	3 of 3

QC Report

Parameter	Blank	LCS %REC	LCSD %REC	LCSD RPD	DUP RPD	MS %REC	MSD %REC	MSD RPD	Date
Carbon-14	0	95.0			NC	91.0	93.0	2.3	7/27/07

Lab Approval: _____

BDL = Below Detection Limit

Test America
Nashville, TN

COOLER RECEIPT FORM

NQF3703

Cooler Received/Opened On June 29, 2007@ 0750

1. Tracking # 7721 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID A00750

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 (front) 1 (back)

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) J

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? YES...(NO)...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) JP

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

If preservation in-house was needed, record standard ID of preservative used here

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MP

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) JP

I certify that I attached a label with the unique LIMS number to each container (intial) JP

21. Were there Non-Conformance issues at login? (YES)..NO Was a PIPE generated? (YES)...NO...# 41138

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 4/18/07

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 06/29/07 0750

1. Tracking # 5317 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 90943149

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES... NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here_____

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 44128

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 4/18/07

TestAmerica ANALYTICAL TESTING CORPORATION Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 6-29-07 7:50

1. Tracking # 6730 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 101507

2. Temperature of rep. sample or temp blank when opened: 1.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front 1 Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) WS

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (intial) 1W

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 1W

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) 1W

I certify that I attached a label with the unique LIMS number to each container (intial) 1W

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 44128

BIS = Broken in shipment

TestAmerica
ANALYTICAL TESTING CORPORATION
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 06/29/07 0750

1. Tracking # 3193 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 90943149

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA
   If yes, how many and where: 1 Front 1 Back
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) 1SP

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA
   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 4

I certify that I unloaded the cooler and answered questions 7-14 (intial) 1SP

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES... NO...NA
   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
      If preservation in-house was needed, record standard ID of preservative used here
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 1SP

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) 1SP

I certify that I attached a label with the unique LIMS number to each container (intial) 1SP

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 44128

1SP 06/29/07

BIS = Broken in shipment
Cooler Receipt Form.doc

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End of Form

Revised 4/18/07

CHAIN OF CUSTODY RECORD

Triad Engineering, Inc.

TRIAD ENGINEERING, INC., 4980 Teays Valley Road, Scott Depot, WV 25560 Tel: (304) 755-0721 FAX: (304) 755-1880

RESULTS TO: Greg [redacted] gtieman@TRIADENG.com

PHONE: 304-755-0721 FAX: 304-755-1880

PROJECT: SITE: WCC TECH CTR

PROGRAM: PROJECT #: 04-07-0231

Laboratory Delivery Group:

PAGE 1 of 4

TURNAROUND TIME: ☒ STD ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 wk

NQF3703
07/16/07 23:59

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	PRESERV: see key	8260B VOC	8270C BNA	8081 PESTICIDES	8151 HERBICIDES	Total RCRA 8 METALS	CARBON 14 USNRC C14	REMARKS	
									0	0	0	0	0		
	SUB-1(10'-11.5')	6/25/07	1005	Soil	1	Grab			X			X		* Report as Dry Weight Corrected — LEVEL IV	01
	SUB-2(10'-11')		1045		1				X			X			02
	SUB-3(8'-10')		1125		1				X			X			03
	SS-1(0-2')		1315		1							X			04
	SS-2(0-2')		1330		1							X			05
	SS-3(0-2')		1340		1							X			06
	SS-4(0-2')		1345		1							X			07
	SS-5(0-2')		1435		2					X	X	X	X		08
	SUB-4(2'-3')		1436		2					X	X	X	X		09
	SS-6(0-2')	6/26/07	0840		3					X	X	X	X		10
	SS-7(0-2')		0850		3					X	X	X	X	— LEVEL IV	11
	SUB-5(2'-3')		0851		2					X	X	X	X	— LEVEL IV	12

Collected / Relinquished By: (1) [signature]
Date 6/28/07 Time 1700
Received By: [signature] 6/29/07 0959

Relinquished By: (2)
Date Time
Received By:

Special Instructions: FIVE SAMPLES SELECTED/MARKED For LEVEL IV Validation Packages

☐ EDD ☐ Report to MDL ☐ Report QC Data ☐ CLP-like Data Deliverable

PRESERVATION KEY: 0 - Ice Only 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - $Na_2S_2O_3$ 5 - MeOH 6 - NaOH

Pink = Sampler Copy Yellow = Lab Copy White = Return with Results

CHAIN OF CUSTODY RECORD

Triad Engineering, Inc.

TRIAD ENGINEERING, INC., 4980 Teays Valley Road, Scott Depot, WV 25560 Tel: (304) 755-0721 FAX: (304) 755-1880

RESULTS TO: Greg TIEMAN gTieman@TRIADENG.com

PHONE: 304-755-0721 FAX: 304-755-1880

PROJECT: SITE: UCC TECH CTR

PROGRAM: PROJECT #: 04-07-0231

Laboratory Delivery Group:

PAGE 2 of 4

TURNAROUND TIME: ☒ STD ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 wk

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	PRESERV: see key	4/5	0	0	0	0	0	REMARKS
							ANALYSIS / METHOD	8260B VOC	8270C BNA	8081 PESTICIDES	8151 HERBICIDES	TOTAL RCRA 8 METALS	CARBON 14 USNRC c14	
	SS-8(0-2')	6/26/07	0910	Soil	3	Grab				X	X	X	X	*Report as Dry weight Corrected — LEVEL IV PACKAGE
	SUB-6(6'-8')		0915		2					X	X	X	X	
	SS-9(0-2')		0925		3					X	X	X	X	
	SS-10(0-2)		0945		3					X	X	X	X	
	SS-11(0-2') BG		1005		1								X	
	SUB-7(2'-4') BG		1006		1								X	
	SS-12(0-2)		1300		2				X	X	X	X		
	SUB-7(6'-8')		1310		5			X	X	X	X	X		
	SS-13(0-2')		1330		2				X	X	X	X		
	SUB-8(4'-6')		1340		5			X	X	X	X	X		
	FD-1		—		5			X	X	X	X	X		
	SS-14(0-2')		1400		2				X	X	X	X		

Collected / Relinquished By: (1)	Date	Time	Received By:
	6/28/07	1700	6/29/07
Relinquished By: (2)	Date	Time	Received By: 0750

Special Instructions: See Page 1

☐ EDD ☐ Report to MDL ☐ Report QC Data ☐ CLP-like Data Deliverable

PRESERVATION KEY: 0 - Ice Only 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - $Na_2S_2O_3$ 5 - MeOH 6 - NaOH

Pink = Sampler Copy Yellow = Lab Copy White = Return with Results

CHAIN OF CUSTODY RECORD

Triad Engineering, Inc.

TRIAD ENGINEERING, INC., 4980 Teays Valley Road, Scott Depot, WV 25560 Tel: (304) 755-0721 FAX: (304) 755-1880

RESULTS TO: Greg TIEMAN gtieman@TRIADENG.com

PHONE: 304-755-0721 FAX:

PROJECT: SITE: UCC TECH CTR

PROGRAM: PROJECT #: 04-07-0231

Laboratory Delivery Group:

PAGE 3 of 4

TURNAROUND TIME: ☒ STD ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 wk

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	PRESERV. see key	8260B VOCs	8270C BNA	8081 PESTICIDES	8151 HERBICIDES	Total ACRA 8 METALS	CARBON 14 USNRC C14		REMARKS
							4/5	0	0	0	0/2	0			ANALYSIS / METHOD
	SUB-9 (8'-10')	6/26/07	1410	Soil	5	Grab		X	X	X	X	X			* Report as Dry Weight Corrected
	SS-15 (0-2')		1435		2				X	X	X	X			
	SS-15 (0-2') MS		1435		2				X	X	X	X			
	SS-15 (0-2') MSD		1435		2				X	X	X	X			
	SUB-10 (4'-6')		1440		5			X	X	X	X	X			
	SUB-10 (4'-6') MS		1440		5			X	X	X	X	X			
	SUB-10 (4'-6') MSD		1440		5			X	X	X	X	X			
	SS-17 (0-2')		1530		2				X	X	X	X			— LEVEL IV
	SUB-11 (4-6)		1535		5			X	X	X	X	X			
	FD-2		—		2				X	X	X	X			
	SS-18 (0-2')	6/27/07	0850		1							X			
	SS-19 (0-2')		0910		1							X			

Collected / Relinquished By: (1)	Date	Time	Received By:	Special Instructions:
[signature]	6/28/07	1700	[signature] 6/29/07 0850	see Page 1
Relinquished By: (2)	Date	Time	Received By:	

☐ EDD ☐ Report to MDL ☐ Report QC Data ☐ CLP-like Data Deliverable

PRESERVATION KEY: 0 - Ice Only 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - $Na_2S_2O_3$ 5 - MeOH 6 - NaOH

Pink = Sampler Copy Yellow = Lab Copy White = Return with Results

25 26 27 28 29 30 31 32 33 34 35 36

14 6/29/07

CHAIN OF CUSTODY RECORD

Triad Engineering, Inc.

TRIAD ENGINEERING, INC., 4980 Teays Valley Road, Scott Depot, WV 25560 Tel: (304) 755-0721 FAX: (304) 755-1880

RESULTS TO: Greg Tieman gtieman@triadeng.com

PHONE: 304-755-0721 FAX: 304-755-1880

PROJECT: SITE: UCC [redacted] GR

PROGRAM: PROJECT #: 04-07-0231

Laboratory Delivery Group:

PAGE 4 of 4

TURNAROUND TIME: ☒ STD ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 wk

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	8260B VOC's	8270C BNA	8081 PESTICIDES	8151 HERBICIDES	TOTAL RCRA 8 METALS	DISSOLVED RCRA 8 METALS	CARBON 14 USNRC C14	REMARKS	
					PRESERV: see key		1		0	0	0/2	2			
	SS-20 (0-2')	6/27/07	0920	Soil	1	Grab					X			* Report as Dry	33
	SS-21 (0-2')	6/27/07	0930	Soil	1						X			weight Corrected	34
	SS-5(0-2') RB	6/25/07	1530	WATER	6				X	X	X				35
	HA-RB	6/27/07	0945	WATER	1						X				36
	GPGW-1	6/27/07	1030	WATER	4		X					X			37
	TRIP BLANK	—	—	WATER	4	Grab	X							ONE/cooler	38

Collected / Relinquished By: (1)	Date	Time	Received By:
[signature]	6/28/07	1700	[signature] 6/29/07 0750
Relinquished By: (2)	Date	Time	Received By:

Special Instructions:

☐ EDD ☐ Report to MDL ☐ Report QC Data ☐ CLP-like Data Deliverable

PRESERVATION KEY: 0 - Ice Only 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - $Na_2S_2O_3$ 5 - MeOH 6 - NaOH

Pink = Sampler Copy Yellow = Lab Copy White = Return with Results

Test America
Nashville, TN

COOLER RECEIPT FORM

NQF3703
07/16/07 23:59

Cooler Received/Opened On 06/30/07 @ 07:50

1. Tracking # 3816 (last 4 digits, FedEx)

Courier: ____FED-EX IR Gun ID_A00750

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 (front)

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence # 5 (other coolers received 06/29/07) 1/P 1/P 06/30/07

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

If preservation in-house was needed, record standard ID of preservative used here_____

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 1/P

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) 1/P

I certify that I attached a label with the unique LIMS number to each container (intial) 1/P

21. Were there Non-Conformance issues at login? YES...(NO) Was a PIPE generated? YES...(NO)...# 44128

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 4/18/07

(7)

TestAmerica
ANALYTICAL TESTING CORPORATION

NASHVILLE ALERT FORM FOR SAMPLE LOGIN

This form is to be emailed only to the appropriate parties. The email will serve as the document control of the date and time received/sent.

ALERT INFORMATION

Project TAT **DAY** **Documentation Level: [II] III IV**

Client Name:	**Triad**
Client Number:	**13592**
Project Name:	**WVU – Site Assessment (WO NQF3703)**
Project Number:	
Date to receive cooler:	**30 June 07**
How many samples are there?	**1**
Matrix?	**Soil**
What tests will be on the COC?	**VOC**
Will a copy of the COC be faxed?	YES or **NO** Please highlight or circle the appropriate answer.
Is this Project TAT Pre-Approved?	**YES** or NO Please highlight/circle the appropriate answer. Login, for pre-approved projects, please answer demographic "Approved Rush (YES)?" (60271) for every sample

PURPOSE OF THIS ALERT:

Heads up for incoming project: NC 44128: The missing VOC vials for sample NQF3703-23 will arrive. Please take analysis off of hold in Element once received.

Or

Project changes prior to sample login:

LOGIN: REMEMBER TO ALWAYS PRINT CLIENT NOTES, WHEN APPLICABLE.

Project Manager & Extension: **Jennifer Gambill** **1246**

CHAIN OF CUSTODY RECORD

TRIAD
Triad Engineering, Inc.

TRIAD ENGINEERING, INC., 4980 Teays Valley Road, Scott Depot, WV 25560 Tel: (304) 755-0721 FAX: (304) 755-1880

PAGE 2 of 4

RESULTS TO: [illegible]

PHONE: [illegible] FAX: [illegible]

PROJECT: SITE: [illegible] CTR

PROGRAM: PROJECT #: 04-07-0231

TURNAROUND TIME: ☐ STD ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 wk

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX			8260B VOC	8270C [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		REMARKS
	[illegible]	[illegible]	0910	Soil	3	Grab			X	X	X	X		
	[illegible]		0915		2				X	X	X	X		
	[illegible]		0925		3				X	X	X	X		— [illegible]
	[illegible]		0945		3				X	X	X	X		
	SS-11(0-2)BG		1005		1							X		PLEASE Include w/ Previous SAMPLES
	SUB-7(2-4)BG		1006		1							X		
	SS-12([illegible])		1300		2			X	X	X	X			
	[illegible]-7([illegible])		1310		5		X	X	X	X	X			
	SS-13(0-2)		1330		2			X	X	X	X			
	[illegible]-8(4-6)		1340		5		X	X	X	X	X			
	[illegible]-1		—		5		X	X	X	X	X			
	[illegible]		1400		2			X	X		X			

Collected / Relinquished By: (1)	Date	Time	Received By:
[illegible]	[illegible]	[illegible]	
Relinquished By: (2)	Date	Time	Received By:

Special Instructions: [illegible]

☐ EDD ☐ Report to MDL ☐ Report QC Data ☐ CLP-like Data Deliverable

PRESERVATION KEY: 0 - Ice Only 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - $Na_2S_2O_3$ 5 - MeOH 6 - NaOH

Pink = Sampler Copy Yellow = Lab Copy White = Return with Results

Appendix B

UCC Technology Park Employee Interviews and File Review for the Greenhouse Area

UCC Technology Park Employee Interviews and File Review for the Greenhouse Area

PREPARED FOR: Union Carbide Corporation

PREPARED BY: CH2M HILL

DATE: August 28, 2008

Introduction

This memorandum documents the historical file review, aerial photograph review, and employee interviews that CH2M HILL conducted to evaluate areas at the Union Carbide Corporation (UCC) Technology Park in South Charleston, West Virginia for potential sources of contamination in the Greenhouse Area groundwater that have not yet been investigated. UCC is A Wholly Owned Subsidiary of The Dow Chemical Company.

Background

As part of the donation area investigation, CH2M HILL conducted soil sampling in areas determined to be the most likely sources of contamination observed in the Greenhouse Area groundwater. The donation area investigation included the following areas:

- The area in and around Building 740 where there are several solid waste management units that may have handled chlorinated solvents or wastes that contained chlorinated solvents
- Building 740 which reportedly handled chlorinated solvents in small quantities
- The area around the maintenance area where chlorinated solvents may have been used

The current conditions report for the Technology Park (CH2M HILL 2008) details the results from the donation area investigation. The investigation results did not indicate any of the areas sampled were sources for the contamination observed in the Greenhouse Area groundwater.

Historical Files Reviewed

Dow directed CH2M HILL to review the files in the environmental file room that might provide information about potential sources of chlorinated solvent use related to the Greenhouse Area. CH2M HILL sorted through the files and found information in the following documents pertaining to waste disposal and historical operations in the Greenhouse Area:

- A.T. Kearney. 1988. *Draft RCRA Facility Assessment*. February 9.

- CH2M HILL. 2004. *RCRA Facility Investigation Work Plan for Solid Waste Management Units, South Charleston Technical Center, South Charleston, West Virginia.* May.
- CH2M HILL. 2008. *Draft Current Conditions Report, UCC Technology Park*. March.
- ERM-Midwest, Inc. 1991a. *UCC & PC South Charleston, WV Groundwater Investigation*. Interviews of Bill Bott and Bob Roberts. May 23.
- ERM-Midwest, Inc. 1991b. *Historical Data Review and Compilation for the Union Carbide Chemicals & Plastics Company, Inc*. Technical Center Facility South Charleston, West Virginia. July 24.
- Unknown. 2000. Historical Notes: Interviews with Current & Former UCC Employees.

Aerial Photograph Review

Dow directed CH2M HILL to review aerial photographs of the Technology Park from the 1938 to 1983. Table 1 provides a summary of the notes for each aerial photograph reviewed. No observations from the aerial photograph review indicated a potential source area for chlorinated solvent in the Greenhouse Area.

Employee Interviews

CH2M HILL conducted employee interviews from May 8 to May 16, 2008. Jerome Cibrik identified the following employees to be interviewed: Bob Ruddle, Dave McClure, Charlie Armstead, Kelli Gardner, and Ed Bartlett. The interviews focused on three points: knowledge of sanitary sewer line, use of chlorinated solvents in vicinity or upgradient of the Greenhouse Area, and historical activities in and around the Greenhouse Area. The sections below summarize the information obtained from these interviews.

Bob Ruddle

Bob Ruddle is responsible for maintaining the utilities located throughout the Technology Park. Mr. Ruddle helped to identify the sanitary sewer line and its flow direction using Figure 1 as a reference. He stated that the clean sewer lines shown on Figure 1 were used for drainage of stormwater and that the sanitary sewer line begins at former Building 708. The sanitary sewer then flows to former Buildings 745 and 747 and continues to former Building 754 (former recreational center). The line then exits former Building 754 and flows to the Greenhouse Area (Figure 1). Mr. Ruddle did not know how the sanitary sewer line was constructed and was unaware of any historical or current leaks in the line.

He stated that former Building 741 (former greenhouse) was used for agricultural products research. The former greenhouse was attached to the backside of former Building 741 and was used to keep plants for testing of herbicides and insecticides. Once the tests were complete, the soil was supposedly dumped near the hillside that runs down to the Kanawha Turnpike. Mr. Ruddle knew this information through conversations with other Technology Park employees.

Mr. Ruddle was unaware of any chlorinated solvents used in this area and did not know of any historical activities that would warrant the use of chlorinated solvents.

Mr. Ruddle stated that the sanitary sewer line was still active out of Buildings 740, 742, and 743, but the rest of the line starting from former Building 708 was inactive (Figure 1). In addition, the sanitary sewer line exiting Building 748 is in use, but no one currently occupies the building.

Charlie Armstead

Charlie Armstead has worked at the Technology Park for more than 30 years. He was the labor supervisor for former Buildings 745 and 747 approximately 20 years ago. Approximately 30 years ago, he installed a section of the sanitary sewer line running from former Building 708 to former Building 745. That section of the sanitary sewer line was above ground and was constructed of 6-inch high-density polyethylene piping. To his knowledge, it has since been disconnected and removed. Buildings 745 and 747 were demolished a few years ago.

Mr. Armstead stated he was unaware of any chlorinated solvents used in former Buildings 745 and 747 while he was supervisor for those buildings. He also stated he was unaware of any chlorinated solvents used near former Building 741 or the former greenhouse. Mr. Armstead confirmed Bob Ruddle's description of the activities conducted at former Building 741 and said there are no records of a spill in the Greenhouse Area that would have contained chlorinated solvents.

Mr. Armstead said there were no grates or exposed openings to the sanitary sewer line. He added that the only openings to the sanitary sewer line are from toilets and shower drains inside the buildings. Mr. Armstead stated there was an old septic tank near former Building 754 that was abandoned several years ago.

Mr. Armstead identified an old sump on Figure 1 that is still located behind former Building 745 that he would recommend sampling to evaluate if the former Building 708 area is a possible source. The sump is located within the sanitary sewer line to pump the contents of the sanitary sewer line from former Buildings 745 and 747 to former Building 754. Mr. Armstead thought sediment in the sump could give an indication of the constituents that may have been pumped through the systems. He felt that if chlorinated solvents were not detected in the sump, then the former Building 708 area could be eliminated as a source area.

Dave McClure

Dave McClure has worked at the Technology Park for more than 20 years and is the head of the real estate department. Mr. McClure's recollection of activities conducted at former Building 741 and the former greenhouse is consistent with what Bob Ruddle and Charlie Armstead described.

Mr. McClure did not know of any chlorinated solvents used in this area. He thought they could have been used around the cooling tower near Building 749. Mr. McClure also mentioned the idea of sampling sediment in the old sump behind former Building 745.

Mr. McClure added that a landscaping company, Terracare, had used the Greenhouse Area for equipment storage. He did not know if Terracare used chlorinated solvents in this area.

Kelli Gardner

Kelli Gardner is the head of maintenance at the Technology Park. She stated she did not have much historical knowledge of the area and that Dave McClure and Charlie Armstead would be the best people to talk to about historical activities in this area.

Ms. Gardner mentioned she thought the old septic tank near former Building 754 had been removed a few years ago. She also acknowledged that Terracare had used the Greenhouse Area to store equipment but was unaware of any chlorinated solvents used.

Ed Bartlett

Ed Bartlett provided the engineering drawings for the sanitary sewer line (Attachment 1) and interpretations of these drawings. Based on the engineering drawings, Mr. Bartlett said the sanitary sewer line was composed of 6- to 8-inch-diameter vitrified tile (clay) and corrugated metal piping from former Building 754 to the former greenhouse. A 6-inch-diameter vitrified tile pipe exited on the west and north sides of former Building 741 and tied into the sanitary sewer line north of former Building 741 (Figure 1). This section of the sanitary sewer, which tied into former Building 741, is no longer active. In addition, he noted that the sanitary sewer line is approximately 2 to 4 feet below ground surface in the Greenhouse Area, depending on the terrain.

Drawings confirmed that the septic tank near former Building 754 was abandoned. According to the drawings, the septic tank was pumped out and filled with soil.

Conclusion

CH2M HILL did not identify any information pertaining to the use of chlorinated solvents in the Greenhouse Area or in areas upgradient of the groundwater contamination observed in WVU-4 and MW-104B. CH2M HILL reviewed information pertaining to the sanitary sewer line, and although it seems like a likely source for groundwater contamination because of its proximity to the area of groundwater contamination, the information found did not indicate the line handled chlorinated solvents. In addition, there was no information from the file review and employee interviews that identified leaks from the sanitary sewer line.

Several employees suggested sampling a sump behind former Buildings 745 and 747 to evaluate if the former Building 708 area is a potential source area for the groundwater contamination; however, the likelihood that the former Building 708 area is the source of the contamination observed in the Greenhouse Area is low. During the donation area investigation, CH2M HILL collected soil samples from the former Building 708 area, and the results did not indicate this area was a source for the contamination observed in the Greenhouse Area groundwater. In addition, as part of a groundwater investigation West Virginia University conducted in 2008, two monitoring wells (WVU-5 and WVU-6) were installed downgradient of the former Building 708 area. The analytical results from groundwater samples collected from WVU-05 and WVU-06 showed no detections of chlorinated solvents in these wells (CH2M HILL 2008).

Reference

CH2M HILL. 2008. *Draft Current Conditions Report, UCC Technology Park*. March.

Table

TABLE 1
Summary of Aerial Photograph Review
UCC Technology Park, South Charleston, West Virginia

Aerial Photograph Date	Notes from the Aerial Photograph Review for the Greenhouse Area
10/16/1938	Area where Techology Park currently is not developed (for example, the area is farm or wooded land).
10/18/1950	1. Disturbed soils are present in the recreation building (Building 754) area. 2. Disturbed soils are present in the area east of Building 754, which based on the 1958 aerial photograph is tennis courts. 3. Disturbed soils are present in the area south of the tennis courts, which may be softball field based on the 1950, 1955, and 1958 aerial photographs. 4. Disturbed soils are present in several areas, which appear to be roads.
4/9/1955	Changes from the 1950 aerial photograph are as follows: 1. Building 754 has been constructed. 2. Disturbed soils are present in the location of the parking lot for Building 754. 3. A new area of disturbed soils is present east of the most northern set of tennis courts.
11/19/1958	Changes from the 1955 aerial photograph are as follows: The disturbed soils east of the tennis courts appear to be a garden. Adjacent to this area is a small shed.
4/13/1960	The only change from the 1958 aerial photograph is a new area of disturbed soils east of the potential softball fields.
4/25/1962	Changes from the 1960 aerial photograph are as follows: 1. Tennis courts and potential softball fields east of Building 754 have been removed. 2. New tennis courts west of Building 754 have been constructed. 3. Buildings 740 and 741 and associated parking lots have been constructed. 4. Disturbed soils in this area are assumed to be associated with recent construction.
April 1964	The only change from the the 1962 aerial photograph is a disturbed soils area south of Building 740.
1966	The only change from the 1964 aerial photograph is the construction of some of the smaller buildings next to Buildings 740 and 741 (for example, Buildings 742, 742, 746, etc.).
April 1969	No changes from 1966 aerial photograph.
10/24/1969	Only changes from 1962 aerial photograph are as follows: 1. Buildings 745 and 747 have been constructed. 2. Disturbed soils area south of Building 740 is no longer present.
4/15/1971	No change from the 1969 aerial photograph.
4/18/1972	Changes from the 1971 aerial photograph are as follows: 1. New area of disturbed soil north of Building 741, which is assumed to be associated with the construction of the greenhouse for Building 741. 2. New area of disturbed soil at the northeast corner of Building 740.
11/18/1979	Changes from the 1972 aerial photograph are as follows: 1. Building 741 greenhouse has been constructed. 2. Disturbed soils at the northeast corner of Building 740 are no longer present. 3. Two buildings have been constructed in the maintenance area.
1982	The only change from the 1979 aerial photograph is the construction of additional buildings in the maintenance area.
1983	No change from the 1982 aerial photograph.

Figure

8+00 N.
4+00 N.
BASE LINE 0+00
4+00 S.
8+00 S.
12+00 S.
16+00 S.
20+00 S.
24+00 S.
28+00 S.
32+00 W.
28+00 W.
24+00 W.
20+00 W.
16+00 W.
12+00 W.
8+00 W.
4+00 W.
BASE LINE 0+00
4+00 E.
8+00 E.
12+00 E.
16+00 E.
20+00 E.

TO DAVIS CREEK
003
16 C.I. FORCE MAIN
24 C.I. FORCE MAIN TO S. CHARLESTON TREATMENT PLANT
CHESAPEAKE & OHIO RAILWAY
012
TO DAVIS CREEK
KANAWHA TURNPIKE
UNION CARBIDE CORPORATION
VESTVACO SALT WELL
TO CHARLESTON TREATMENT PLANT
W.B. KANAWHA TRPK.
I-64 (W.B.)
I-64 (E.B.)
I-64
E.B. KANAWHA TRPK.
U.C.C. PROPERTY LINE
GUARD BLDG.
D.O.H. R/W LINE
C.O.G.S. PROPERTY LINE
RESIDENTIAL AREA
VALLEY DRIVE
PHILLIPS STREET
W.VA. COLLEGE OF GRADUATE STUDIES FOUNDATION INC. 27.927 ACRES
RECREATIONAL FIELD
C.O.G.S. PROPERTY LINE
U.C.C. PROPERTY LINE
BALL FIELD #1
BALL FIELD #2
W. VA. WATER CO. PROPERTY
KAN. CO. BOARD OF EDUCATION PROPERTY
CITY OF SO. CHARLESTON PROPERTY
C.O.G.S. PROPERTY LINE
VALLEY DRIVE
RESIDENTIAL AREA
STAUNTON AVE.
DANIELS AVE.
DAVIS CREEK
W.VA. SEC. ROUTE #214
CEMETERY
TENNIS COURTS
CONC. PAD
REC BLDG.
PARKING
PARKING AREA
PAINT TESTING AREA
DRUM STORAGE
TOWER
FRENCH DRAIN
INCINERATOR PAD
PS (ABOVE GRADE)
WALKWAY
FLARE TOWER
WARD HOLLOW
SALTWELL LOT
GUARD BLDG.
TIMBERLAND
STORAGE
TOWER
WATER TANK
NEW TANK
SHELTER
RESIDENTIAL AREA
POWER
ELECTRIC
APPALACHIAN
CO.
RADIO TOWER
FLAG POLE
MON #39
THIS AREA IS FLY ASH, FILLED WITH APPROX. 1 FT. OF EARTH COVER
CONC. RETAINING WALL
FLY ASH POND
DECANT LINE FROM HOLTZ POND
FLYASH LINE TO HOLTZ POND
ROCKS
14+70.0 S.
+94.0 E.
SS-51
SS-52
SS-53
SS-54
SS-55
SS-56
DH-6
C.T.
TRLR
740 741 742 743 744 745 746 747 748 749 750 754
8732 8736
790 7310 731
701 702 704 706 707 710 713 720 722 723 725 726 727 728 729 730 731 733 734 735 759 770 771 772 773 774 775 776 777 778 780 781 782 784 785 786 787 788 791 793 795
8720 8721 8722 8723 8725 8726 8727 8729 8731 8733 8734 8775 8776 8777 8778 8779 8780 8234
718 711 712
2505 2000 6000
KEY PLAN -001
NOTE: FOR COMPOSITE DRAWINGS OF SEWER SYSTEM SEE DWG. 1189373
0' 50' 200' 400' 600' 800'
SCALE IN FEET
0 50 100 150 200 250
SCALE IN METERS
CLEAN SEWER CS
SANITARY SEWER SS
PROCESS SEWER PS

LATEST REVISION			CADD FILE	
			AAPAV.DGN	
REDRAWN BY	CHECKED BY	APPROVED BY	REDRAWN	SCALE
TAS			12-5-91	1"=200'

ENGINEERING DEPARTMENT
UNION CARBIDE
CHEMICALS AND PLASTICS COMPANY INC

JOB NUMBER	UNIT SYMBOL	ZONE	AREA
		GS	

PIPING - UNDERGROUND CLEAN AND SANITARY SEWERS DRAWING INDEX

INDEX NUMBER			60 DRAWING NUMBER	REV.
LOCATION	SITE	SUBJECT		
511	GS00	5.20	1189390	

Attachment 1

Sanitary Sewer Line Drawings

STANDARD MANHOLE FRAME & COVER

GROUT

30" REINF. CONC. PIPE

2'-6"

CONC. BASE 1'-0" MIN. THICK, TOP FLUSH WITH OR ABOVE TOP OF VT

GROUT 6"VT

SHAPED CHANNEL

6"

4'-0"

MESH

TYPICAL MANHOLE

KANAWHA TURNPIKE

SLOPE BANK AT 2 TO 1

SANITARY SEWER

MH 5

EXIST 8"VT SAN SEWER INV 673.46

CEMETERY

MH 4 INV. 675

MH 3

APPROX DRAINAGE DIVIDE

SLOPE MAIN

INV 692

MH-2

INV. 697

NEW 6"V.T.

EXIST 6"VT SAN. SEWER

MH-1

ELEV 698

FOUR TIMES TO SLOPE ELEV. 697

INV. 698.3

EXIST 6"VT KITCHEN DRAIN

NEW 2" STEEL

RELOCATED 2" GAS & 1½" WATERS LINES

LOCATE PIPE TO AVOID DAMAGE TO ROOTS OF TREE

PROTECT 18" POPLAR

ACCESS TO FILL AREA STAKED BY ENGINEER

CITY WATER

FUEL GAS

6" C.I. EXIST

6" CAST IRON (EXIST)

GAS (EXIST

CONTRACT LIMIT LINE

LOWER PARKING

VISITORS' PARKING

UPPER PARKING

Pt. S 58.69' W 7.71

P.T. S 219.66 W 182.63

CURVE #3 Δ=101° 49'45.4" R=240.00' T=295.43 L=426.52

CURVE #2 Δ=5° 10' 00" R=800.00 T=37.14' L=74.09'

P.C. S 152.00 W 608.00

P.C. S 32.00 W 1410.00

P.C. S 527.66 W 1617.74

P.C. S 527.00 W 1826.00

CURVE #1 Δ=77° 15' 10" R=80.00' T=64.00' L=107.90

P.T. S 521.00 W 1710.00

P.C. S 521.00 W 1603.10

P.C. S 521.00 W 1709.00

LOCCN S 32.05 E 911.86 A 1583.70

FILL HOLLOW TO ELEV. 720

72.0

2300 W 2200 W 2100 W 2000 W 1900 W 1800 W 1700 W 1600 W 1500 W 1400 W 1300 W 1200 W 1100 W 1000 W

600 N 500 N 400 N 300 N 200 N 100 N 00 100 S 200 S 300 S

REVISIONS	DATE	BY	CHK'D
(A) CHANGED GRADE AT TENNIS COURTS. ADDED LOCATION OF LINES TO BE RELOCATED NEAR RECREATION BUILDING. CURVE DATA ADDED BY F.R.W.	6-15-60		

CITY WATER — SPEC 23
FUEL GAS — SPEC 25

GENERAL NOTES

SHADED AREAS TO RECEIVE SUB BASE IN ACCORDANCE WITH SPECIFICATIONS

EXISTING CONTOURS
NEW UNLINED DITCHES

CURVE NUMBER

REFERENCE DRAWINGS

DRAWN BY	CHECKED BY	APPROVED BY	DATE	SCALE
AO-HP			6-15-60	1"=50'-0"

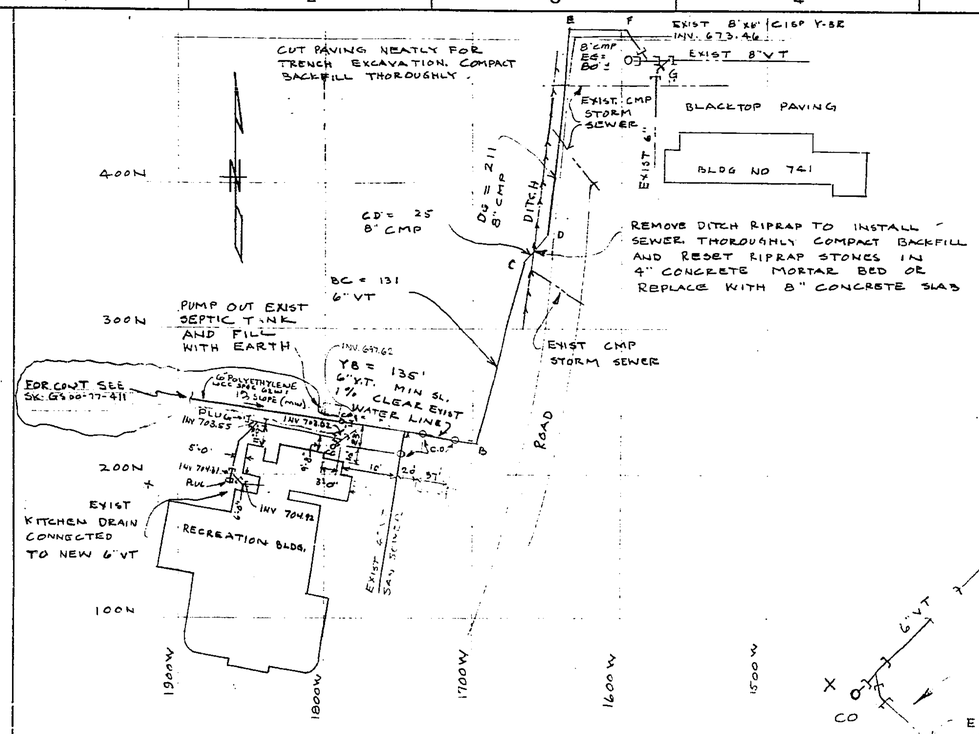
DESIGN AND CONSTRUCTION
UNION CARBIDE CHEMICALS COMPANY
DIVISION OF UNION CARBIDE CORPORATION
SOUTH CHARLESTON, WEST VA.

PROJECT NO.	UNIT SYMBOL	DATE	AREA
280			

TITLE: SITE GRADING PLAN
SERVICES TO RECREATION BLDG.

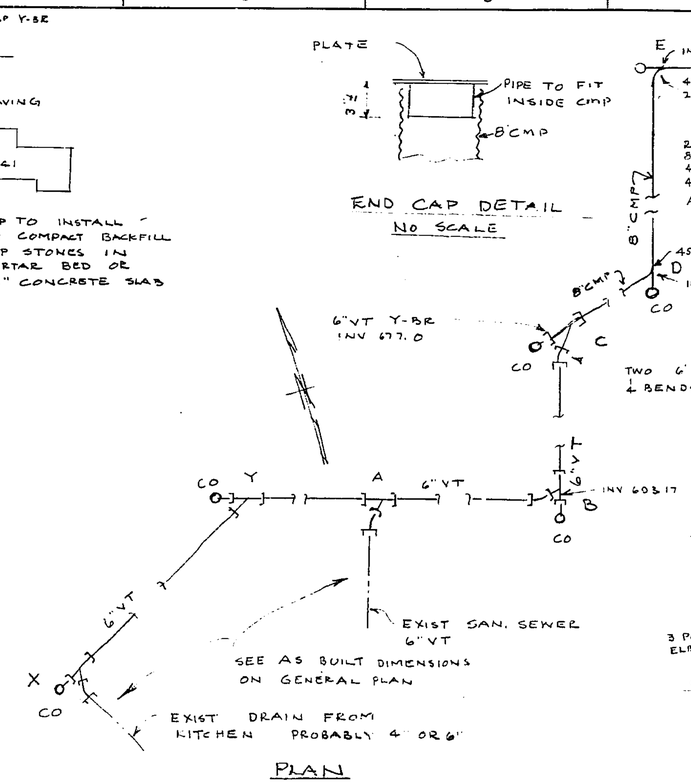
REFERENCE NUMBER 511-SDIA-752 LOCATION SOUTH CHARLESTON, WEST VA. PROJECT NO. A-463(10)

WATER TO



GENERAL PLAN

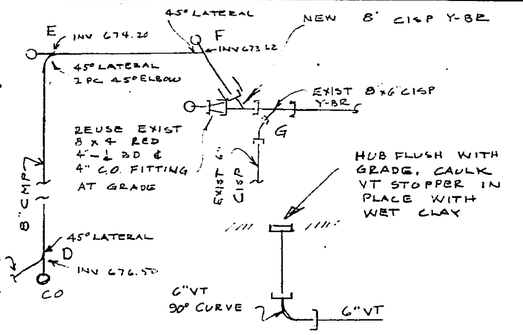
SCALE 1" = 50'



PLAN

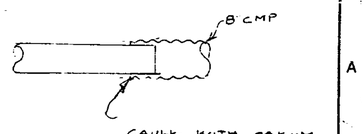
END CAP DETAIL

NO SCALE



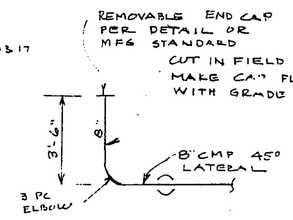
CLEANOUT- VT LINE

NO SCALE



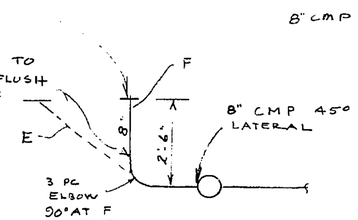
CONNECTION AT "C"

NO SCALE



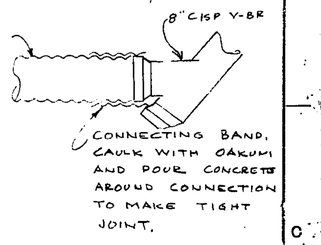
CLEANOUT AT "D"

NO SCALE



CLEANOUT AT "E" & "F"

NO SCALE



CONNECTION AT "G"

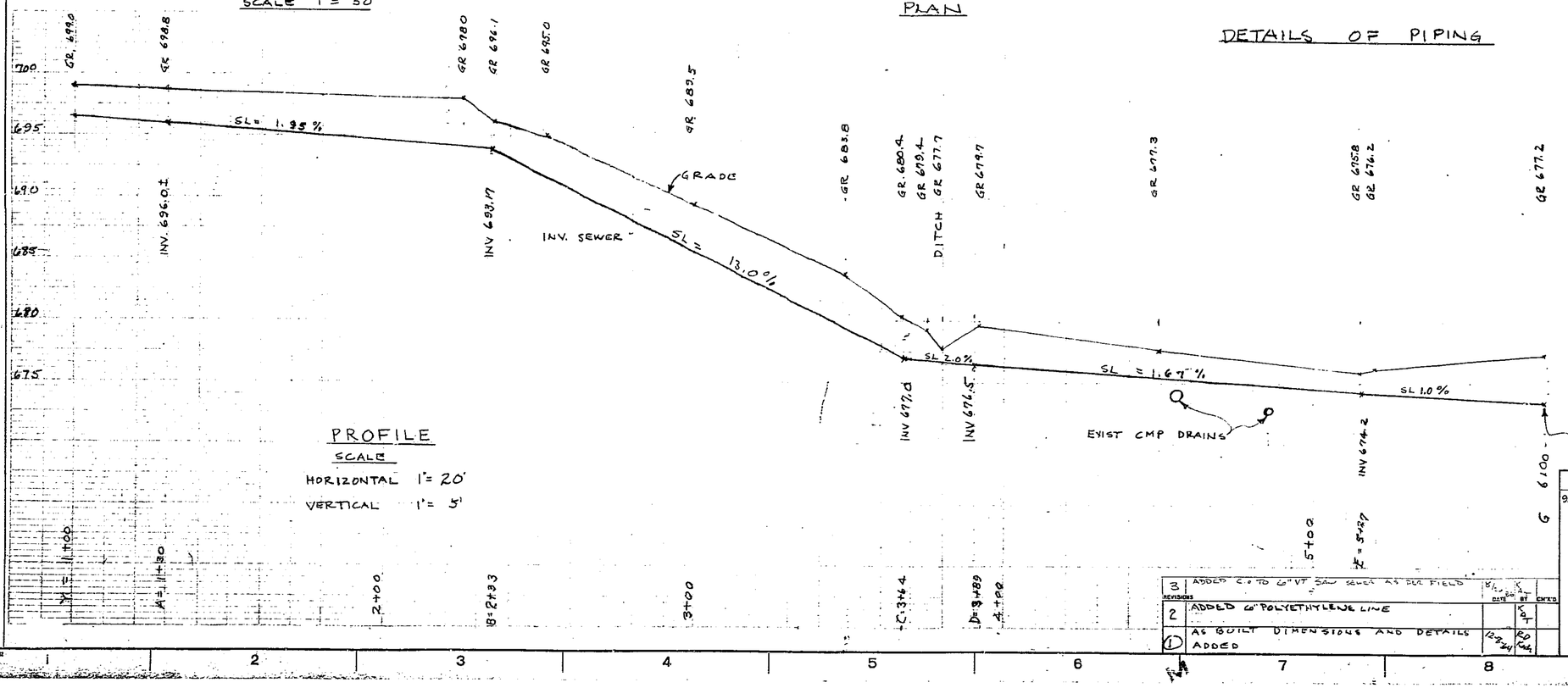
NO SCALE

DETAILS OF PIPING

CORRUGATED METAL PIPE SHALL BE 8" ARMCO 16 GA. HELCOR FULL BIT. COATED AND PAVED, OR EQUAL.

VITRIFIED TILE PIPE SHALL BE ASTM C-425 TYPE II WEDGELOCK IF CUT LENGTHS ARE USED MAKE JOINTS WITH OAKUM AND SK COMPOUND

DITCH SHALL BE BACKFILLED NEATLY FOR SEEDING OR PAVING BY OTHERS



PROFILE

SCALE

HORIZONTAL 1" = 20'

VERTICAL 1" = 5'

REFERENCE DRAWINGS

EXIST SANITARY SEWERS	511 GS 1 & 2 541 280-1
EXIST STORM SEWERS	511 GS 1 & 2 541 280-2
EXIST WATER LINE	SK 76134

REVISIONS		DATE	BY	CHK'D
3	ADDED C.O. TO 6" VT SAN SEWER AS SEE FIELD	5/1/64	RDK	
2	ADDED 6" POLYETHYLENE LINE	4-24-64	RDK	
1	AS BUILT DIMENSIONS AND DETAILS ADDED	12-23-64	RDK	

WORK ORDER	JOB NO ASCT.	ISSUED FOR
930-5274	216	REVIEW
		BIDS
		PURCHASE
		FABRICATION
		CONST./ERECTION

DRAWN BY	CHECKED BY	APPROVED BY	DATE	SCALE
Rokeb	ROK		9-15-64	As Noted

DESIGN AND CONSTRUCTION
UNION CARBIDE CHEMICALS COMPANY
DIVISION OF UNION CARBIDE CORPORATION
SOUTH CHARLESTON, WEST VA. 2770

JOB NO.	UNIT SYMBOL	ZONE	AREA
64159	—	1	A & B

TITLE: PIPING — UNDERGROUND RECREATION BUILDING SANITARY SEWER

LOCATION	DEPT.	SYSTEM	PIPING NUMBER
SC	GS	00	5-21 64159

HIGH PRESSURE LAB. BLDG. NO. 741
OLEFINS LAB BLDG #740
GATE HOUSE
PARKING AREA
ROADWAY
EXIST. ROADWAY
PROPERTY LINE
DETAIL "A"
SCALE: 1/8"=1'-0"
SECTION "C-C"
SCALE: 1/4"=1'-0"
SECTION "D-D"
DETAIL "C"
SCALE: 1/4"=1'-0"
SECTION "A-A"
SECTION "B-B"
PLAN
DETAIL "B"
REFERENCES —
PIPING SPEC'S. FOR 6" V.T.
2 AS BUILT EJN#100469
ADDED 6" SANITARY SEWER FOR BL748 930-5397 JOB NO. 68003
REVISIONS
Room 1119
930-8117
930-5397
200-1587
1-11-33
200-1896
MARSH
DESIGN AND CONSTRUCTION 2770
UNION CARBIDE CHEMICALS COMPANY
DIVISION OF UNION CARBIDE CORPORATION
SOUTH CHARLESTON, WEST VA.
200
1 & 2
TITLE: UNDERGROUND PIPING
SANITARY SEWERS
946005
DRAWING NUMBER
511 GS1 3.21 280-1
R-2

Appendix C
Draft Facility Environmental Covenants

ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described Property:

> The portion of the Union Carbide Corporation (UCC) Technology Park parcel (Tract A) in South Charleston, West Virginia as described in the legal description in Attachment 1. A map of the Property is provided as Figure 1 in Attachment 2.

The current Owner of record of the Property, and its contact information, is:

> Union Carbide Corporation, wholly owned subsidiary of The Dow Chemical Company
> Address
> Address

Activities on and uses of the above describe property that may result in excessive human exposure or in the release of a constituent that was contained as part of the corrective action related to this covenant are prohibited. Those activities and uses are:

A. **Groundwater Use:** The Owner shall prohibit extraction of groundwater from the Property for any purpose other than for purposes of monitoring or remediation approved by the West Virginia Department of Environmental Protection (WVDEP).

B. **Monitoring Well Protection:** The Owner shall not remove, disturb, or damage any monitoring wells on the Property except as approved by UCC and WVDEP. If the use of any well is discontinued, the well shall be properly abandoned by the Owner in accordance with Title 47 Series 60 of the West Virginia Code of State Rules (CSR) or other applicable laws and regulations in effect at the time of the well abandonment.

C. **Restrictions on Buildings and Enclosed Structures:** The Owner shall ensure that vapor exposure does not pose an unacceptable risk to human health, safety, or welfare in new buildings or enclosed structures constructed in the area of the Property designated as having vapor intrusion restrictions as shown on Figure 2 in Attachment 2. The legal description for the vapor intrusion restrictions area is provided in Attachment 1. The Owner shall conduct all necessary sampling, assessments, and historical data review to evaluate the vapor risks associated with the new buildings or enclosed structures proposed to be constructed on the Property. The Owner shall have the vapor risk assessment for the proposed new buildings or enclosed structure approved by WVDEP prior to constructing the building or enclosed structure. If the Owner or WVDEP determines that engineering controls are necessary to limit potential vapor exposure in new buildings or enclosed structures, the Owner shall have the design and specifications for the engineering controls approved by WVDEP prior to constructing the building or enclosed structure.

D. **Subsurface Work and Soil Management:** Prior to conducting any subsurface work in the areas of the Property designated as having subsurface work restrictions as shown on Figure 2 in Attachment 2, the Owner shall ensure that a health and safety plan for the work has been prepared by a qualified health and safety professional and that all the personnel performing the work have been properly trained in its requirements. The legal description for the subsurface work restrictions area is provided in Attachment 1. The Owner shall ensure that

work is performed in accordance with applicable portions of the federal Occupational Safety and Health Act. The Owner shall ensure that subsurface work is performed by properly trained and appropriately licensed personnel. The Owner shall ensure that soil is not disturbed, excavated, relocated, or removed from the area of the Property designated as having subsurface work restrictions unless the Owner determines that the soil can be lawfully disturbed, excavated, relocated, or removed without posing a threat to the public health, safety, welfare, or the environment and that all such activities are in compliance with all applicable federal, state, and local requirements.

E. **Industrial/Commercial Land Use**: Uses of the area designated as Industrial/Commercial Land Use (Figure 1) consistent with the definition of "Industrial Land Use" under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.30) and approved by UCC shall be allowed. This term includes property used for commercial establishments, manufacturing plants, public utilities, mining, distribution of goods or services, administration of business activities, research and development facilities, warehousing, shipping, transport, remanufacturing, stockpiling of raw materials, storage, repair and maintenance of commercial machinery or equipment, and waste management. The Owner shall prohibit residential land use for the area of the Property designated as Industrial/Commercial Land Use shown on Figure 1 of Attachment 2. "Residential Land Use" means land used consistent with the definition of residential land use under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.51) which is land used for housing of human beings. This term includes property used for schools, day care centers, nursing homes, or other residential-style facilities or recreational areas. The legal description for the industrial/commercial land use area is provided in Attachment 1.

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are the holders of this covenant:

Union Carbide Corporation
Address
Address

The facts regarding the remediation response project at this Property are:

UCC, A Wholly Owned Subsidiary of The Dow Chemical Company, is the Owner of the "Site", comprising approximately 650 acres (248 areas are in Tract A) in the city of South Charleston, West Virginia. Attachment 1 contains a legal description of the Site, and Attachment 2 contains a Site map (Figure 2). The U.S. Environmental Protection Agency (USEPA) issued the UCC site a Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

As a result of site investigations, it was determined that shallow soil and shallow groundwater are impacted by constituents exceeding USEPA regional screening levels protective of human health in some portions of Tract A.

USEPA issued a Statement of Basis on (date) identifying the approved corrective actions for the Property. The corrective action for the Property requires recording an Environmental Covenant to eliminate potentially complete exposure pathways.

WVDEP issued a Hazardous Waste Management Permit (USEPA identification number WVD060682291) to UCC for the Site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the Property shall provide written notice to the Secretary of the Department of Environmental Protection within 10 days following transfer of a specified interest in the Property subject to this covenant, changes in use of the Property, application for building permits regarding the Property, or proposals for any work affecting the restricted uses and activities on the Property, as set forth above.

Owner shall conduct inspections of the Property to monitor compliance with this Land Use Covenant at least one time per year, and shall submit two signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within 30 days of the inspection.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with West Virginia Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the WVDEP, and the holders of this covenant. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at WVDEP Division of Water and Waste Management (DWWM) address below.

DWWM
601 57th Street
Charleston, WV, 25304

and is entitled [insert title of administrative record].

WVDEP is granted full right of access to the Property for the purpose of implementation or enforcement of this covenant.

If the Property should be transferred to another Owner, UCC, its representatives, and contractors are granted the right of access to, and an easement to and over, the Property to enter the Property with persons and such equipment as determined necessary in UCC's sole discretion and judgment to determine and monitor compliance with Module IV of the Hazardous Waste Management Permit (USEPA identification number WVD060682291). Notwithstanding the foregoing, prior to entering onto the Property pursuant to this provision, UCC shall provide subsequent Owners of all or part of the Property reasonable notice. Subsequent Owners of all or part of the Property shall be entitled to escort UCC, or its agent, employees, or contractors onto the Property and observe all of UCC's activities, and UCC shall comply with all applicable laws and regulations in connection with UCC's access to the Property.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees or persons acting under their direction or control.

IN WITNESS WHEREOF, the following parties have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of Owner and Holder,
Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the Agency,
West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Descriptions

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2
Property and Site Figures

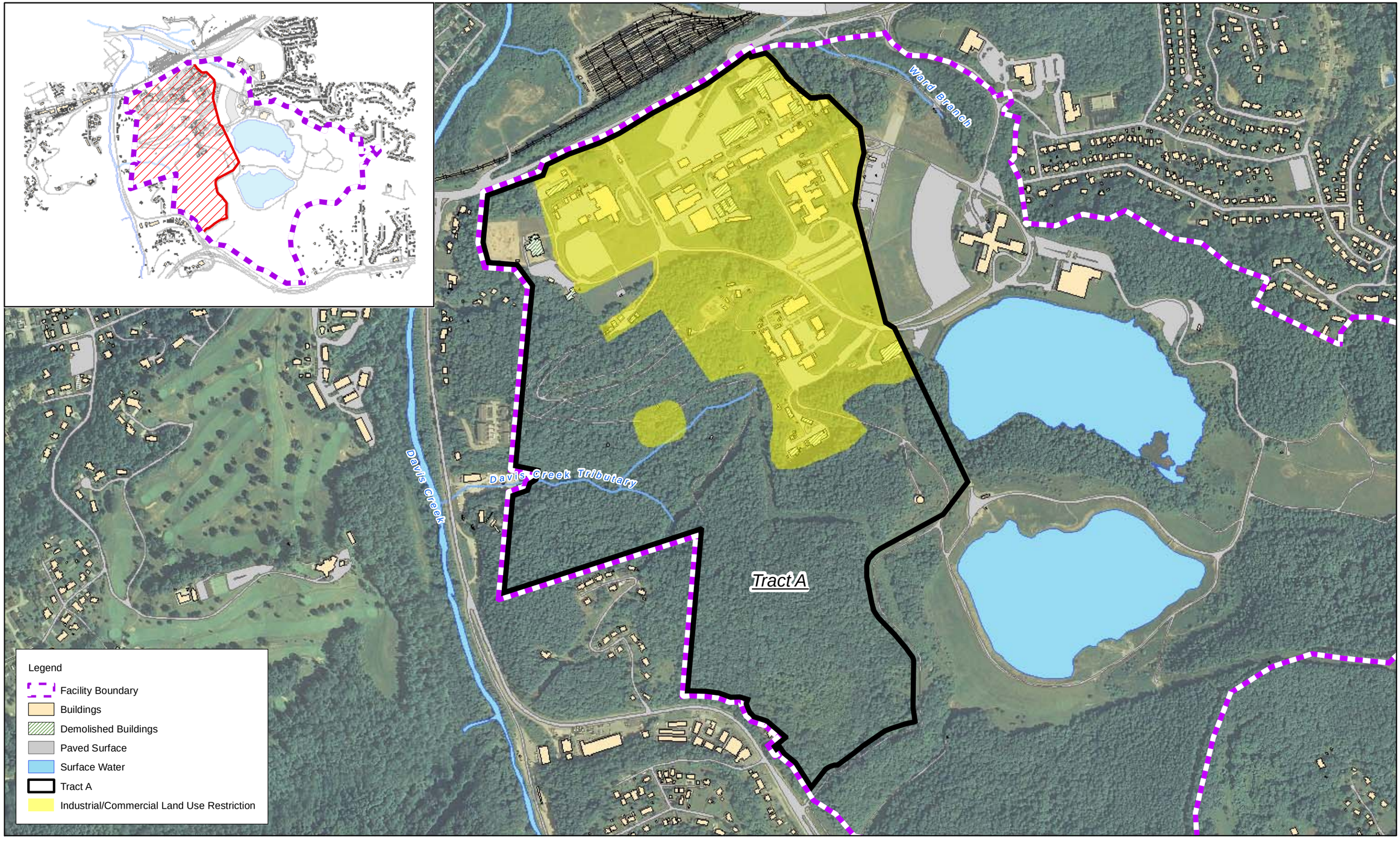


Figure 1
Tract A - Industrial/Commercial Land Use Restriction
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

\\LAKEFRONT\PROJ\GIS\DOW\TECHCENTER\REPORTS\396873_LANDUSE_COVENTS\MAPFILES\G-TECH-00122.MXD RVANSLAM 3/8/2010 07:27:46

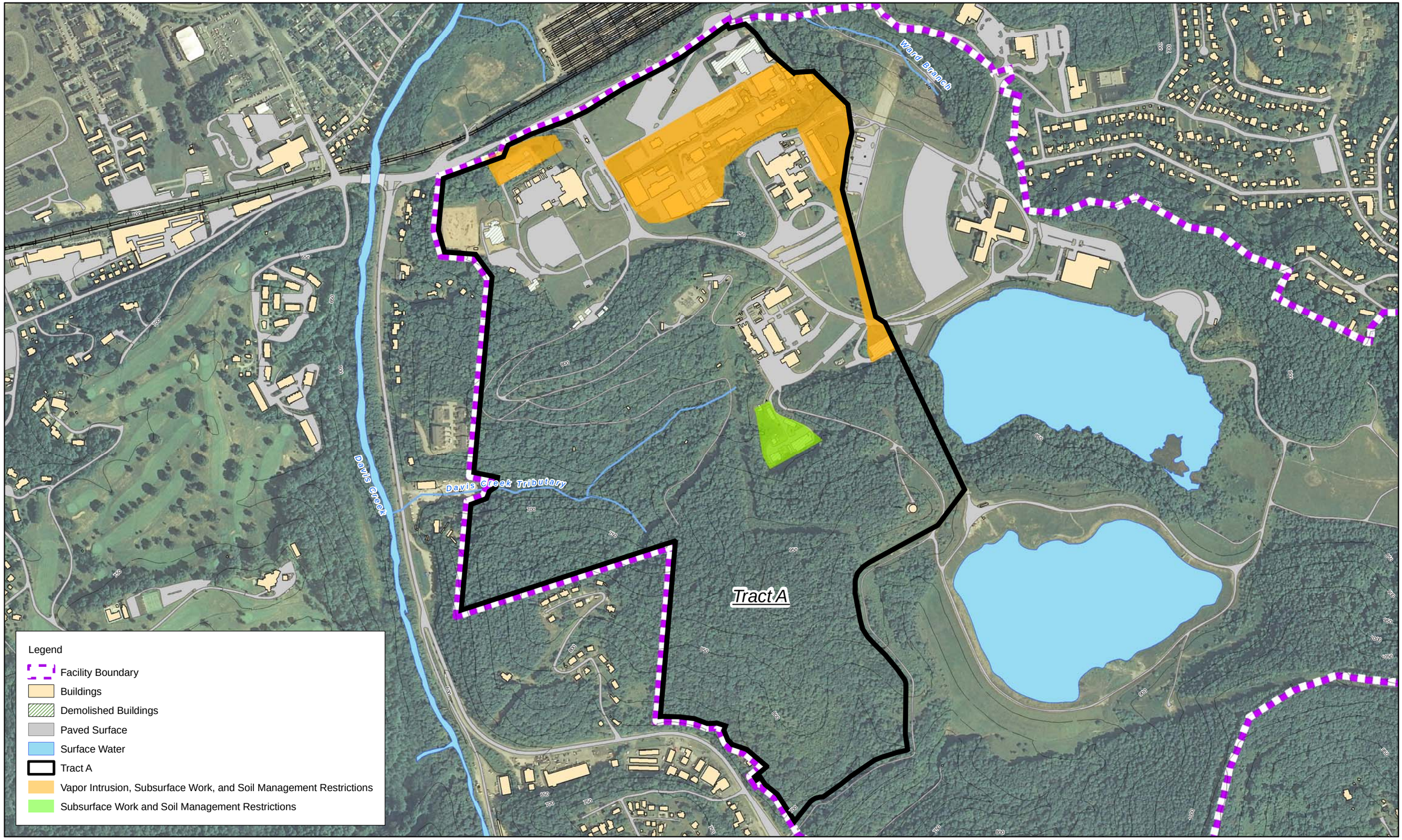


Figure 2
Tract A - Vapor Intrusion, Subsurface Work, and Soil Management Restrictions
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

\\LAKEFRONT\PROJ\GIS\DOW\TECHCENTER\REPORTS\396873_LANDUSE_COVENTS\MAPFILES\G-TECH-00123.MXD MMAGEE2 3/10/2010 06:29:20

ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described Property:

> The portion of the Union Carbide Corporation (UCC) Technology Park parcel (Tract B) in South Charleston, West Virginia as described in the legal description in Attachment 1. A map of the Property is provided as Figure 1 in Attachment 2.

The current Owner of record of the Property, and its contact information, is:

> Union Carbide Corporation, wholly owned subsidiary of The Dow Chemical Company
> Address
> Address

Activities on and uses of the above describe property that may result in excessive human exposure or in the release of a constituent that was contained as part of the corrective action related to this covenant are prohibited. Those activities and uses are:

A. **Groundwater Use:** The Owner shall prohibit extraction of groundwater from the Property for any purpose other than for purposes of monitoring or remediation approved by the West Virginia Department of Environmental Protection (WVDEP).

B. **Monitoring Well Protection:** The Owner shall not remove, disturb, or damage any monitoring wells on the Property except as approved by UCC and WVDEP. If the use of any well is discontinued, the well shall be properly abandoned by the Owner in accordance with Title 47 Series 60 of the West Virginia Code of State Rules (CSR) or other applicable laws and regulations in effect at the time of the well abandonment.

C. **Restrictions on Buildings and Enclosed Structures:** The Owner shall ensure that vapor exposure does not pose an unacceptable risk to human health, safety, or welfare in new buildings or enclosed structures constructed in the area of the Property designated as having vapor intrusion restrictions as shown on Figure 1 in Attachment 2. The legal description for the vapor intrusion restriction area is provided in Attachment 1. The Owner shall conduct all necessary sampling, assessments, and historical data review to evaluate the vapor risks associated with the new buildings or enclosed structures proposed to be constructed on the Property. The Owner shall have the vapor risk assessment for the proposed new buildings or enclosed structure approved by WVDEP prior to constructing the building or enclosed structure. If the Owner or WVDEP determines that engineering controls are necessary to limit potential vapor exposure in new buildings or enclosed structures, the Owner shall have the design and specifications for the engineering controls approved by WVDEP prior to constructing the building or enclosed structure.

D. **Industrial/Commercial Land Use**: Uses of the Property consistent with the definition of "Industrial Land Use" under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.30) and approved by UCC shall be allowed. This term includes property used for commercial establishments, manufacturing plants, public utilities, mining, distribution of goods or services, administration of business activities, research and development facilities, warehousing, shipping, transport, remanufacturing, stockpiling of raw

materials, storage, repair and maintenance of commercial machinery or equipment, and waste management. The Owner shall prohibit residential land use. "Residential Land Use" means land used consistent with the definition of residential land use under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.51) which is land used for housing of human beings. This term includes property used for schools, day care centers, nursing homes, or other residential-style facilities or recreational areas.

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are the holders of this covenant:

Union Carbide Corporation
Address
Address

The facts regarding the remediation response project at this Property are:

UCC, A Wholly Owned Subsidiary of The Dow Chemical Company, is the Owner of the "Site", comprising approximately 650 acres (10 areas are in Tract B) in the city of South Charleston, West Virginia. Attachment 1 contains a legal description of the Site, and Attachment 2 contains a Site map (Figure 2). The U.S. Environmental Protection Agency (USEPA) issued the UCC site a Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

Based on the proximity of Tract B to the landfills at the Site, there is the potential for vapor intrusion into new buildings constructed adjacent to the landfills.

USEPA issued a Statement of Basis on (date) identifying the approved corrective actions for the Property. The corrective action for the Property requires recording an Environmental Covenant to eliminate potentially complete exposure pathways.

WVDEP issued a Hazardous Waste Management Permit (USEPA identification number WVD060682291) to UCC for the Site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the Property shall provide written notice to the Secretary of the Department of Environmental Protection within 10 days following transfer of a specified interest in the Property subject to this covenant, changes in use of the Property, application for building permits regarding the Property, or proposals for any work affecting the restricted uses and activities on the Property, as set forth above.

Owner shall conduct inspections of the Property to monitor compliance with this Land Use Covenant at least one time per year, and shall submit two signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within 30 days of the inspection.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with West Virginia Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the WVDEP, and

the holders of this covenant. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at WVDEP Division of Water and Waste Management (DWWM) address below.

DWWM
601 57th Street
Charleston, WV, 25304

and is entitled [insert title of administrative record].

WVDEP is granted full right of access to the Property for the purpose of implementation or enforcement of this covenant.

If the Property should be transferred to another Owner, UCC, its representatives, and contractors are granted the right of access to, and an easement to and over, the Property to enter the Property with persons and such equipment as determined necessary in UCC's sole discretion and judgment to determine and monitor compliance with Module IV of the Hazardous Waste Management Permit (USEPA identification number WVD060682291). Notwithstanding the foregoing, prior to entering onto the Property pursuant to this provision, UCC shall provide subsequent Owners of all or part of the Property reasonable notice. Subsequent Owners of all or part of the Property shall be entitled to escort UCC, or its agent, employees, or contractors onto the Property and observe all of UCC's activities, and UCC shall comply with all applicable laws and regulations in connection with UCC's access to the Property.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees or persons acting under their direction or control.

IN WITNESS WHEREOF, the following parties have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of Owner and Holder,
Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed

this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the Agency,
West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

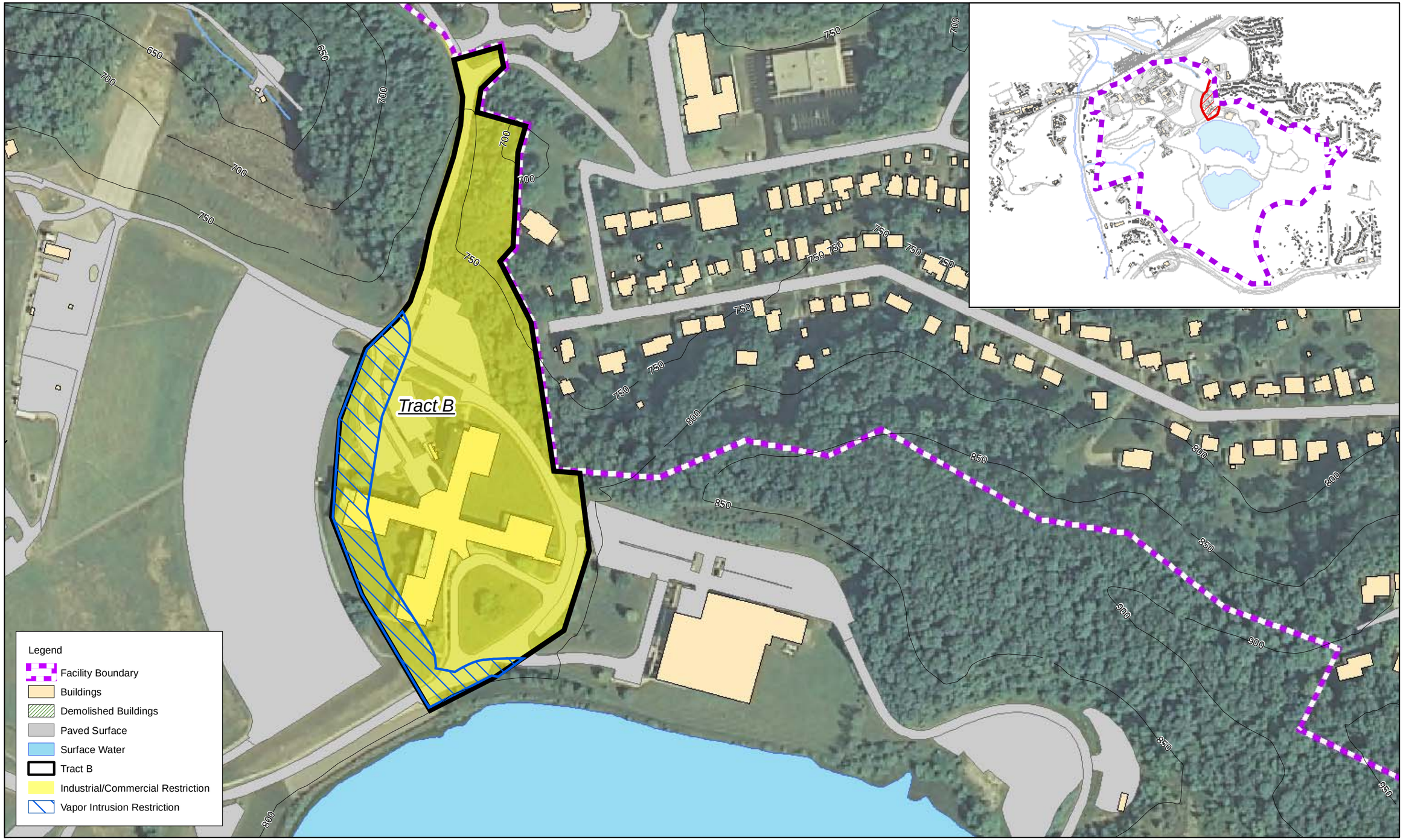
Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Descriptions

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2
Property and Site Figures



N

0 200 400

Feet

Figure 1
Tract B - Restrictions
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described Property:

> The portion of the Union Carbide Corporation (UCC) Technology Park parcel (Tract C) in South Charleston, West Virginia as described in the legal description in Attachment 1. A map of the Property is provided as Figure 1 in Attachment 2.

The current Owner of record of the Property, and its contact information, is:

> Union Carbide Corporation, wholly owned subsidiary of The Dow Chemical Company
> Address
> Address

Activities on and uses of the above describe property that may result in excessive human exposure or in the release of a constituent that was contained as part of the corrective action related to this covenant are prohibited. Those activities and uses are:

A. **Groundwater Use:** The Owner shall prohibit extraction of groundwater from the Property for any purpose other than for purposes of monitoring or remediation approved by the West Virginia Department of Environmental Protection (WVDEP).

B. **Monitoring Well Protection:** The Owner shall not remove, disturb, or damage any monitoring wells on the Property except as approved by UCC and WVDEP. If the use of any well is discontinued, the well shall be properly abandoned by the Owner in accordance with Title 47 Series 60 of the West Virginia Code of State Rules (CSR) or other applicable laws and regulations in effect at the time of the well abandonment.

C. **Restrictions on Buildings and Enclosed Structures:** The Owner shall ensure that vapor exposure does not pose an unacceptable risk to human health, safety, or welfare in new buildings or enclosed structures constructed in the area of the Property designated as having vapor intrusion restrictions as shown on Figure 1 in Attachment 2. The legal description for the vapor intrusion restriction area is provided in Attachment 1. The Owner shall conduct all necessary sampling, assessments, and historical data review to evaluate the vapor risks associated with the new buildings or enclosed structures proposed to be constructed on the Property. The Owner shall have the vapor risk assessment for the proposed new buildings or enclosed structure approved by WVDEP prior to constructing the building or enclosed structure. If the Owner or WVDEP determines that engineering controls are necessary to limit potential vapor exposure in new buildings or enclosed structures, the Owner shall have the design and specifications for the engineering controls approved by WVDEP prior to constructing the building or enclosed structure.

D. **Industrial/Commercial Land Use**: Uses of the Property consistent with the definition of "Industrial Land Use" under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.30) and approved by UCC shall be allowed. This term includes property used for commercial establishments, manufacturing plants, public utilities, mining, distribution of goods or services, administration of business activities, research and development facilities, warehousing, shipping, transport, remanufacturing, stockpiling of raw

materials, storage, repair and maintenance of commercial machinery or equipment, and waste management. The Owner shall prohibit residential land use. "Residential Land Use" means land used consistent with the definition of residential land use under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.51) which is land used for housing of human beings. This term includes property used for schools, day care centers, nursing homes, or other residential-style facilities or recreational areas.

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are the holders of this covenant:

Union Carbide Corporation
Address
Address

The facts regarding the remediation response project at this Property are:

UCC, A Wholly Owned Subsidiary of The Dow Chemical Company, is the Owner of the "Site", comprising approximately 650 acres (9 areas are in Tract C) in the city of South Charleston, West Virginia. Attachment 1 contains a legal description of the Site, and Attachment 2 contains a Site map (Figure 2). The U.S. Environmental Protection Agency (USEPA) issued the UCC site a Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

Based on the proximity of Tract C to the landfills at the Site, there is the potential for vapor intrusion into new buildings constructed adjacent to the landfills.

USEPA issued a Statement of Basis on (date) identifying the approved corrective actions for the Property. The corrective action for the Property requires recording an Environmental Covenant to eliminate potentially complete exposure pathways.

WVDEP issued a Hazardous Waste Management Permit (USEPA identification number WVD060682291) to UCC for the Site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the Property shall provide written notice to the Secretary of the Department of Environmental Protection within 10 days following transfer of a specified interest in the Property subject to this covenant, changes in use of the Property, application for building permits regarding the Property, or proposals for any work affecting the restricted uses and activities on the Property, as set forth above.

Owner shall conduct inspections of the Property to monitor compliance with this Land Use Covenant at least one time per year, and shall submit two signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within 30 days of the inspection.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with West Virginia Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the WVDEP, and

the holders of this covenant. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at WVDEP Division of Water and Waste Management (DWWM) address below.

DWWM
601 57th Street
Charleston, WV, 25304

and is entitled [insert title of administrative record].

WVDEP is granted full right of access to the Property for the purpose of implementation or enforcement of this covenant.

If the Property should be transferred to another Owner, UCC, its representatives, and contractors are granted the right of access to, and an easement to and over, the Property to enter the Property with persons and such equipment as determined necessary in UCC's sole discretion and judgment to determine and monitor compliance with Module IV of the Hazardous Waste Management Permit (USEPA identification number WVD060682291). Notwithstanding the foregoing, prior to entering onto the Property pursuant to this provision, UCC shall provide subsequent Owners of all or part of the Property reasonable notice. Subsequent Owners of all or part of the Property shall be entitled to escort UCC, or its agent, employees, or contractors onto the Property and observe all of UCC's activities, and UCC shall comply with all applicable laws and regulations in connection with UCC's access to the Property.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees or persons acting under their direction or control.

IN WITNESS WHEREOF, the following parties have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of Owner and Holder,
Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed

this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the Agency,
West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Descriptions

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2
Property and Site Figures

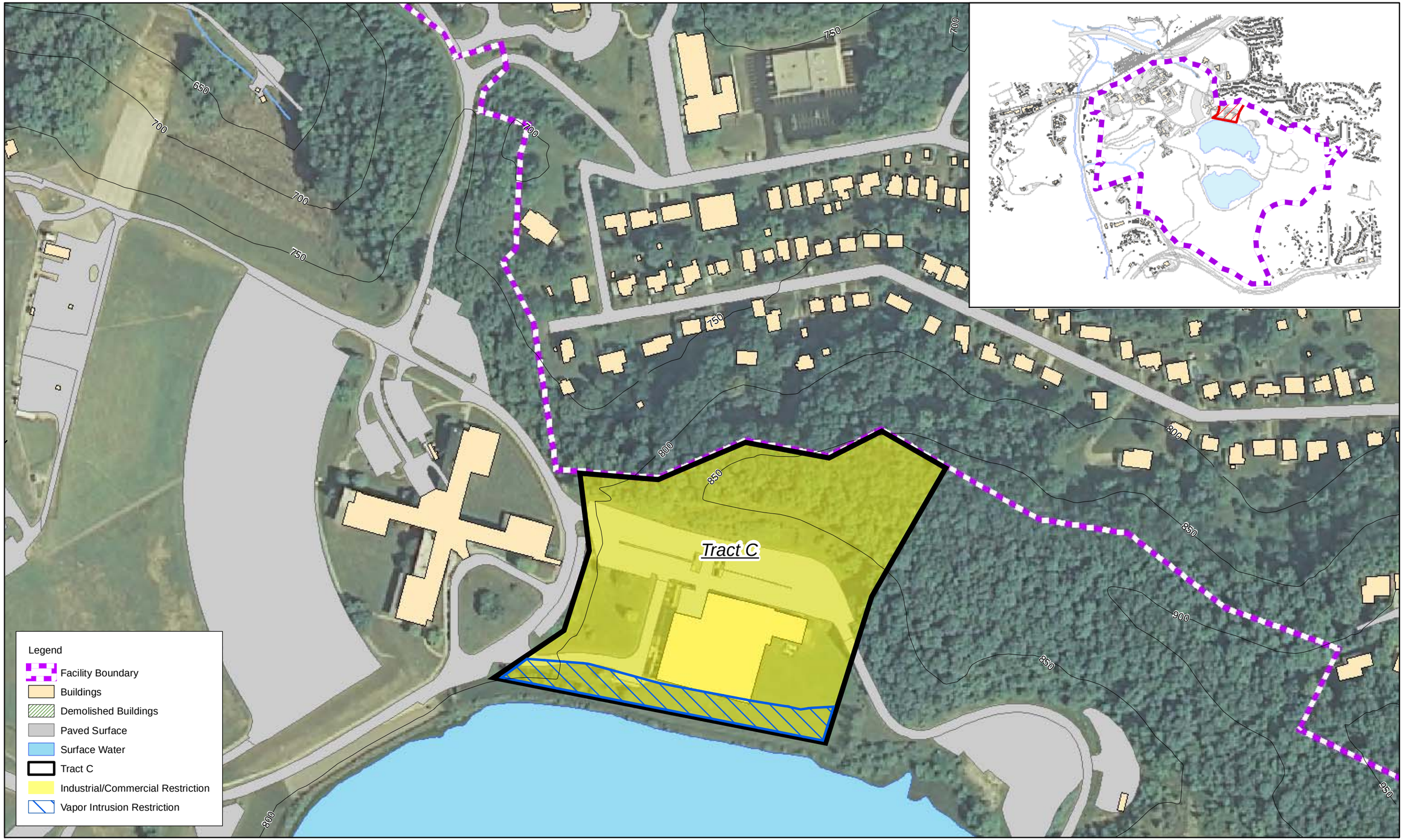


Figure 1
Tract C - Restrictions
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described Property:

> The portion of the Union Carbide Corporation (UCC) Technology Park parcel (Tract D) in South Charleston, West Virginia as described in the legal description in Attachment 1. A map of the Property is provided as Figure 1 in Attachment 2.

The current Owner of record of the Property, and its contact information, is:

> Union Carbide Corporation, wholly owned subsidiary of The Dow Chemical Company
> Address
> Address

Activities on and uses of the above describe property that may result in excessive human exposure or in the release of a constituent that was contained as part of the corrective action related to this covenant are prohibited. Those activities and uses are:

A. **Corrective Action Maintenance:** The Owner shall not in any way interfere with the operation or performance of any corrective measures implemented on the Property as specified in Module IV of the Hazardous Waste Management Permit (U.S. Environmental Protection Agency [USEPA] identification number WVD060682291).

B. **Groundwater Use:** The Owner shall prohibit extraction of groundwater from the Property for any purpose other than for purposes of monitoring or remediation approved by the West Virginia Department of Environmental Protection (WVDEP).

C. **Monitoring Well Protection:** The Owner shall not remove, disturb, or damage any monitoring wells on the Property except as approved by UCC and WVDEP. If the use of any well is discontinued, the well shall be properly abandoned by the Owner in accordance with Title 47 Series 60 of the West Virginia Code of State Rules (CSR) or other applicable laws and regulations in effect at the time of the well abandonment.

D. **Restrictions on Buildings and Enclosed Structures:** The Owner shall ensure that vapor exposure does not pose an unacceptable risk to human health, safety, or welfare in new buildings or enclosed structures constructed in the area of the Property designated as having vapor intrusion restrictions as shown on Figure 2 in Attachment 2. The legal description for the vapor intrusion restriction area is provided in Attachment 1. The Owner shall conduct all necessary sampling, assessments, and historical data review to evaluate the vapor risks associated with the new buildings or enclosed structures proposed to be constructed on the Property. The Owner shall have the vapor risk assessment for the proposed new buildings or enclosed structure approved by WVDEP prior to constructing the building or enclosed structure. If the Owner or WVDEP determines that engineering controls are necessary to limit potential vapor exposure in new buildings or enclosed structures, the Owner shall have the design and specifications for the engineering controls approved by WVDEP prior to constructing the building or enclosed structure.

E. **Subsurface Work and Soil Management:** Prior to conducting any subsurface work in the areas of the Property designated as having subsurface work restrictions as shown on Figure 2 in Attachment 2, the Owner shall ensure that a health and safety plan for the work has been prepared by a qualified health and safety professional and that all the personnel performing the work have been properly trained in its requirements. The legal description for the subsurface work restriction area is provided in Attachment 1. The Owner shall ensure that work is performed in accordance with applicable portions of the federal Occupational Safety and Health Act. The Owner shall ensure that subsurface work is performed by properly trained and appropriately licensed personnel. The Owner shall ensure that soil is not disturbed, excavated, relocated, or removed from the area of the Property designated as having subsurface work restrictions unless the Owner determines that the soil can be lawfully disturbed, excavated, relocated, or removed without posing a threat to the public health, safety, welfare, or the environment and that all such activities are in compliance with all applicable federal, state, and local requirements.

F. **Landfill Cover Maintenance:** The Owner shall prohibit any excavation or other intrusive activity that could impact the effectiveness of the covers over Lower Ward Landfill and Ward B Landfill as shown on Figure 3 in Attachment 2. The legal description for the landfill cover maintenance area is provided in Attachment 1. In the event any future use or redevelopment of the Property involves any disturbance or replacement of the existing cover, the Owner must contact UCC and WVDEP for prior written approval. The Owner shall replace the existing cover with a cover system that achieves the same performance standards as the existing cover and has the written approval of UCC and WVDEP.

G. **Industrial/Commercial Land Use**: Uses of the area designated as Industrial/Commercial Land Use (Figure 1) consistent with the definition of "Industrial Land Use" under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.30) and approved by UCC shall be allowed. This term includes property used for commercial establishments, manufacturing plants, public utilities, mining, distribution of goods or services, administration of business activities, research and development facilities, warehousing, shipping, transport, remanufacturing, stockpiling of raw materials, storage, repair and maintenance of commercial machinery or equipment, and waste management. The Owner shall prohibit residential land use for the area of the Property designated as Industrial/Commercial Land Use shown on Figure 1 of Attachment 2. "Residential Land Use" means land used consistent with the definition of residential land use under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.51) which is land used for housing of human beings. This term includes property used for schools, day care centers, nursing homes, or other residential-style facilities or recreational areas. The legal description for the industrial/commercial land use area is provided in Attachment 1.

H. **Recreational Land Use:** Uses of the area of the Property designated as Recreational Land Use (Figure 1) for recreational activities that only result in periodic limited use of the Property such as hiking, jogging, wildlife viewing, and ecological study and are approved by UCC shall be allowed. The Owner shall prohibit uses consistent with the definition of "Residential Land Use" under West Virginia's Voluntary Remediation and Redevelopment rules (Title 60, 60-3-2.30) with the exception that recreational activities that only result in periodic limited use of the Property are permitted. The legal description for the recreation land use area is provided in Attachment 1.

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are the holders of this covenant:

Union Carbide Corporation
Address
Address

The facts regarding the remediation response project at this Property are:

UCC, A Wholly Owned Subsidiary of The Dow Chemical Company, is the Owner of the "Site", comprising approximately 650 acres (383 areas are in Tract D) in the city of South Charleston, West Virginia. Attachment 1 contains a legal description of the Site, and Attachment 2 contains a Site map (Figure 2). The U.S. Environmental Protection Agency (USEPA) issued the UCC site a Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

As a result of a site investigations, it was determined that shallow soil and shallow groundwater are impacted by constituents exceeding USEPA regional screening levels protective of human health.

The unlined landfills were constructed to receive fly ash slurry from the UCC South Charleston Facility (SCF), oxide tails from the SCF propylene oxide production unit, municipal sludge from the South Charleston publicly owned treatment works (POTW), and laboratory waste from the facility. The landfills were created by constructing the upper and lower dikes across Ward Hollow. The Lower Ward Landfill is located between the upper and lower dike, and the Ward A and B Landfills are located south of the upper dike. The locations of the Landfills are shown on Figure 4 in Attachment 2.

Groundwater in Ward Hollow is impacted by a number of constituents that are related to closed landfills and former brine wells at the Site. The most prominent constituents in Ward Hollow groundwater are 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; arsenic; and barium. The approximate area of the Ward Hollow groundwater plume is shown on Figure 4 in Attachment 2.

USEPA issued a Statement of Basis on (date) identifying the approved corrective actions for the Property. The corrective action for the Property requires recording an Environmental Covenant to eliminate potentially complete exposure pathways.

WVDEP issued a Hazardous Waste Management Permit (USEPA identification number WVD060682291) to UCC for the Site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the Property shall provide written notice to the Secretary of the Department of Environmental Protection within 10 days following transfer of a specified interest in the Property subject to this covenant, changes in use of the Property, application for building permits regarding the Property, or proposals for any work affecting the restricted uses and activities on the Property, as set forth above.

Owner shall conduct inspections of the Property to monitor compliance with this Land Use Covenant at least one time per year, and shall submit two signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within 30 days of the inspection.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with West Virginia Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the WVDEP, and the holders of this covenant. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at WVDEP Division of Water and Waste Management (DWWM) address below.

DWWM
601 57th Street
Charleston, WV, 25304

and is entitled [insert title of administrative record].

WVDEP is granted full right of access to the Property for the purpose of implementation or enforcement of this covenant.

If the Property should be transferred to another Owner, UCC, its representatives, and contractors are granted the right of access to, and an easement to and over, the Property to enter the Property with persons and such equipment as determined necessary in UCC's sole discretion and judgment to determine and monitor compliance with Module IV of the Hazardous Waste Management Permit (USEPA identification number WVD060682291). Notwithstanding the foregoing, prior to entering onto the Property pursuant to this provision, UCC shall provide subsequent Owners of all or part of the Property reasonable notice. Subsequent Owners of all or part of the Property shall be entitled to escort UCC, or its agent, employees, or contractors onto the Property and observe all of UCC's activities, and UCC shall comply with all applicable laws and regulations in connection with UCC's access to the Property.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees or persons acting under their direction or control.

IN WITNESS WHEREOF, the following parties have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of Owner and Holder,
Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the Agency,
West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Descriptions

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2
Property and Site Figures

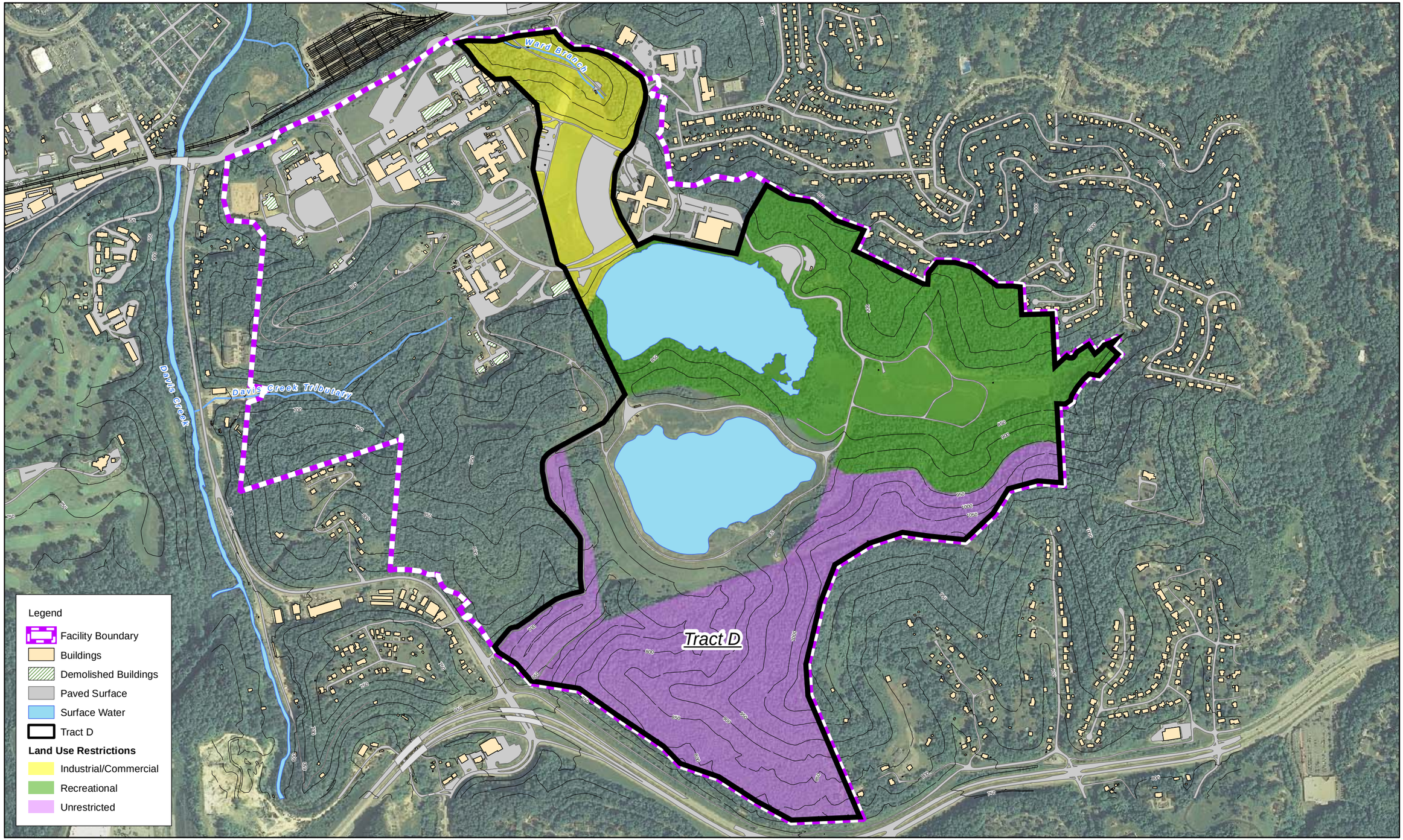

Figure 1
Tract D - Industrial/Commercial and Recreational Land Use Restrictions
UCC Technology Park
South Charleston, West Virginia

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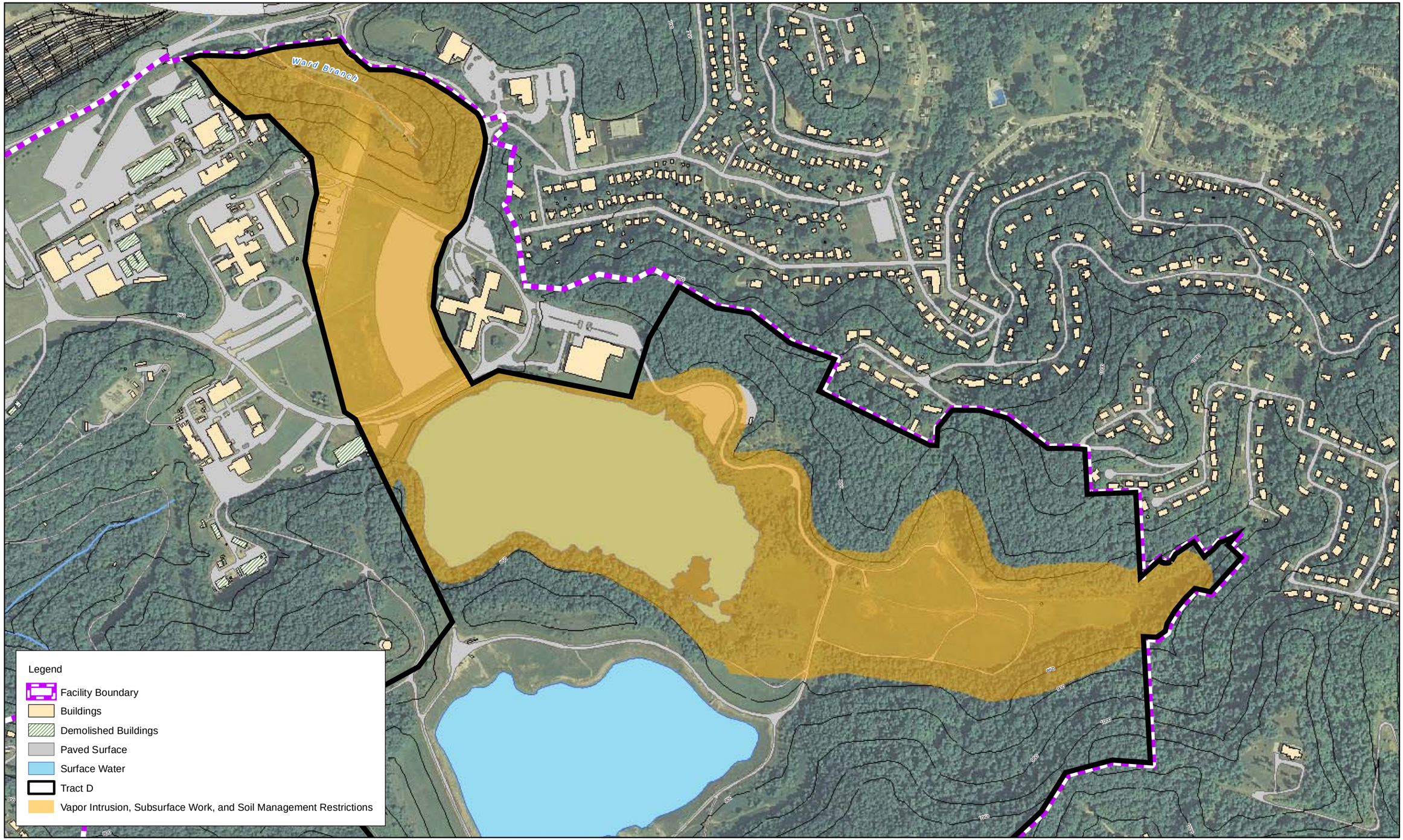

Figure 2
Tract D - Vapor Intrusion, Subsurface Work, and Soil Management Restrictions
UCC Technology Park
South Charleston, West Virginia

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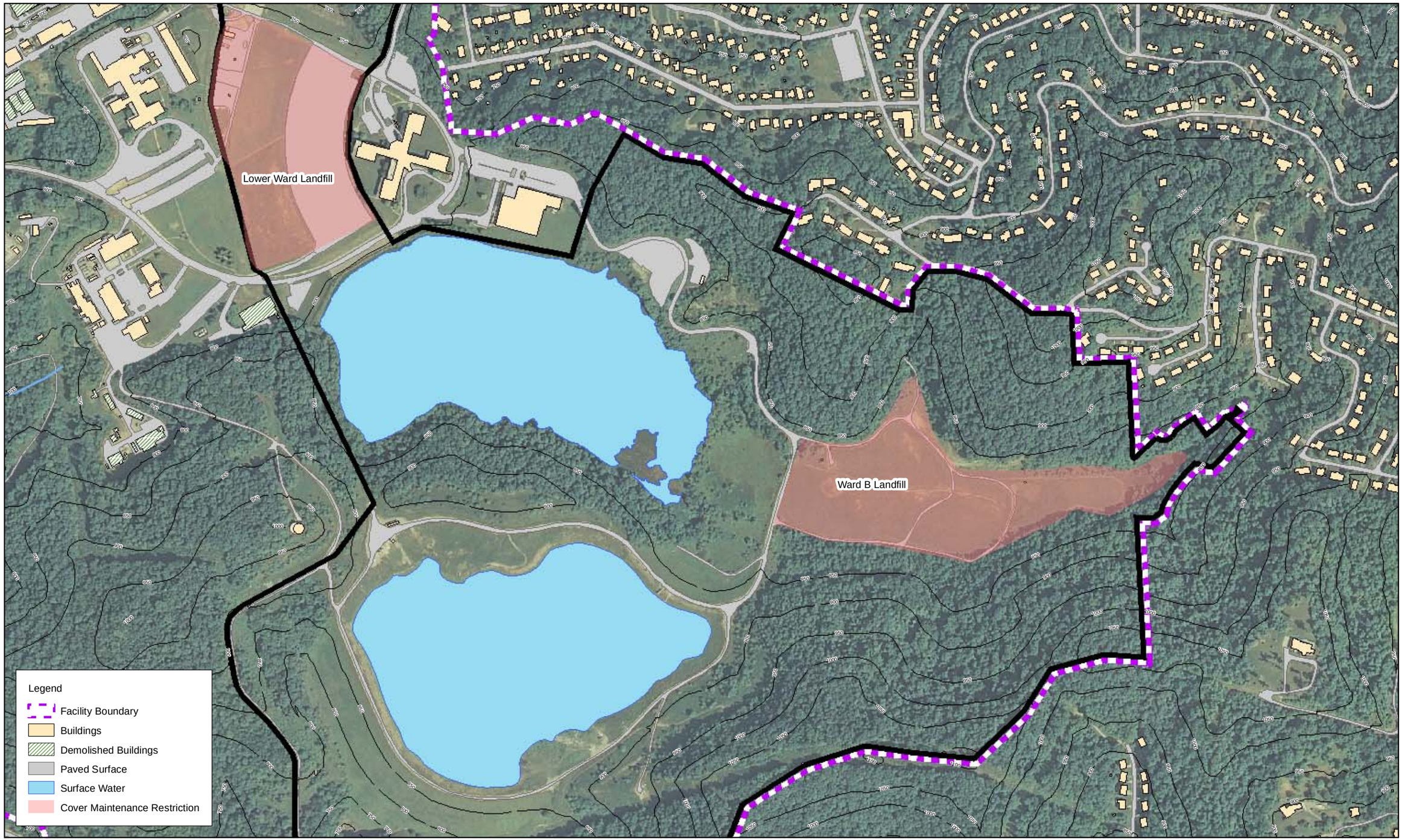

Figure 3
Tract D - Landfill Cover Maintenance Restriction
UCC Technology Park
South Charleston, West Virginia

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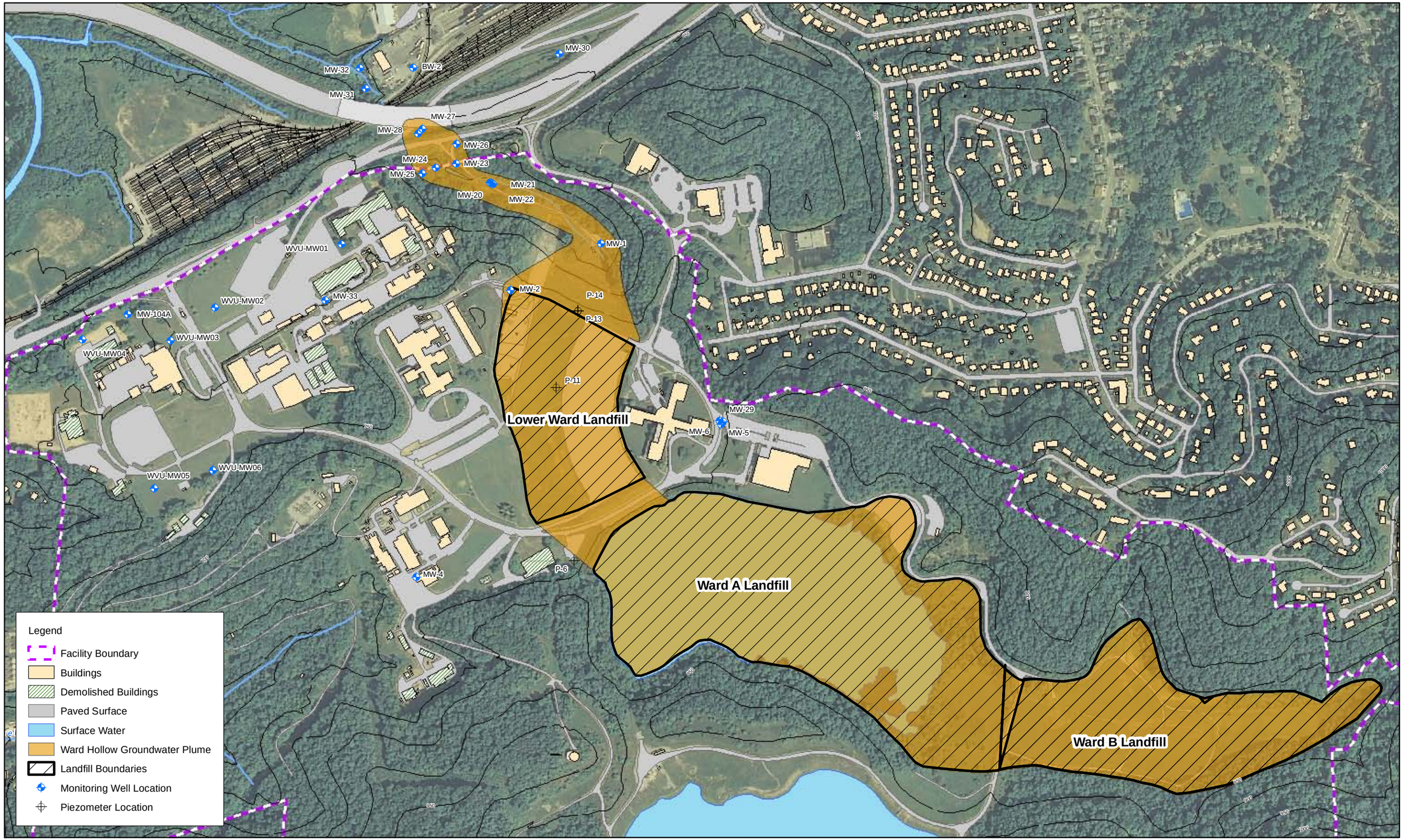

Figure 4
Ward Hollow Groundwater Plume
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

Appendix D
Draft Offsite Environmental Covenants

ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described property:

> The portion of the CSX Transportation, Inc. railroad corridor at or near South Charleston, Kanawha County, West Virginia, beginning at approximate CSXT Valuation Station 1561+61, approximate CSXT Milepost CA-457.63, and ending at approximate CSXT Valuation Station 1570+17, approximate CSXT Milepost CA-457.79, CSXT C&O Division, CSXT Kanawha Subdivision, CSXT Valuation Map/Sheet No. V-11/S-86-b (CSXT GIS Map No. V13624), CSXT PIN Nos. 54039-0092-000 & 54039-0095-000, CSXT Parcel Nos. 9, 24, 31, & 32, as described in the legal description in Attachment 1. A map of the property is contained in Attachment 2.

The current Owner of the property is:

> CSX Transportation, Inc.
> Attn: Environmental Department
> 500 Water Street J-275
> Jacksonville, FL 32202

Activities on and uses of the above described property that may result in excessive human exposure or in the release of a contaminant that was contained as part of the remedial action related to this covenant are prohibited. Those activities and uses are:

A. **Groundwater Use—**The Owner shall prohibit extraction of groundwater from the Property for any purpose other than for purposes of monitoring or remediation approved by the West Virginia Department of Environmental Protection (WVDEP).

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are all of the holders of this covenant:

> CSX Transportation, Inc.
> Attn: Environmental Department
> 500 Water Street J-275
> Jacksonville, FL 32202

The facts regarding the remediation response project at this property are:

> Union Carbide Corporation (UCC), A Wholly Owned Subsidiary of The Dow Chemical Company, is the owner of a “site”, comprising approximately 650 acres adjacent to the subject property in the city of South Charleston, West Virginia. Attachment 3 contains a legal description of the site, and Attachment 4 contains a site map. U.S. Environmental Protection Agency (USEPA) issued the UCC site a

Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

As a result of an RCRA facility investigation (RFI), it was determined that shallow groundwater in Ward Hollow is impacted by a number of constituents that are related to closed landfills and former brine wells at the site. The most prominent constituents in groundwater in Ward Hollow are 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; arsenic; and barium. Other constituents above USEPA regional screening levels are bromomethane; chlorobenzene; bis(2-ethylhexyl)phthalate; lead; and naphthalene. These impacts have resulted in the Ward Hollow groundwater plume, which extends approximately 300 feet offsite and potentially onto the subject property.

USEPA is issuing a Statement of Basis identifying the approved corrective actions for the site and the Ward Hollow groundwater plume. The corrective action for the Ward Hollow groundwater plume requires recording an Environmental Covenant prohibiting the use of groundwater in areas that may be affected.

WVDEP issued a Hazardous Waste Management Permit (USEPA ID Number WVD060682291) to UCC for the site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the property shall provide written notice to UCC, the Secretary of the Department of Environmental Protection and USEPA within 10 days following transfer of a specified interest in the property subject to this covenant, changes in use of the property, application for building permits regarding the property, or proposals for any site work affecting the contamination on the property.

The Owner or UCC or their designated representatives shall conduct inspections of the property to monitor compliance with this Land Use Covenant at least once per year, and shall submit two (2) signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within thirty (30) days of the inspection.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees, or persons acting under their direction or control.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with W. Va. Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the West Virginia Department of Environmental Protection, the USEPA, and UCC. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at the WVDEP Division of Water and Waste Management (DWWM) address below.

WVDEP
DWWM
601 57th Street
Charleston, WV, 25304

WVDEP is hereby granted full right of access to the property for the purpose of implementation or enforcement of this covenant.

UCC and WVDEP as parties to this covenant have the right to enforce the provisions of the covenant pursuant to W. Va. Code 22-22B-11

IN WITNESS WHEREOF, the following have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of,
CSX Transportation, Inc.

I, _____, a Notary Public in and for the County of Kanawha, State of West Virginia do hereby certify that ____ whose name is signed above, as the authorized representative of the CSX Transportation, Inc, signed above, this day executed this document in my presence or this day acknowledged same to be his/her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Description of Property

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2

Map of Property

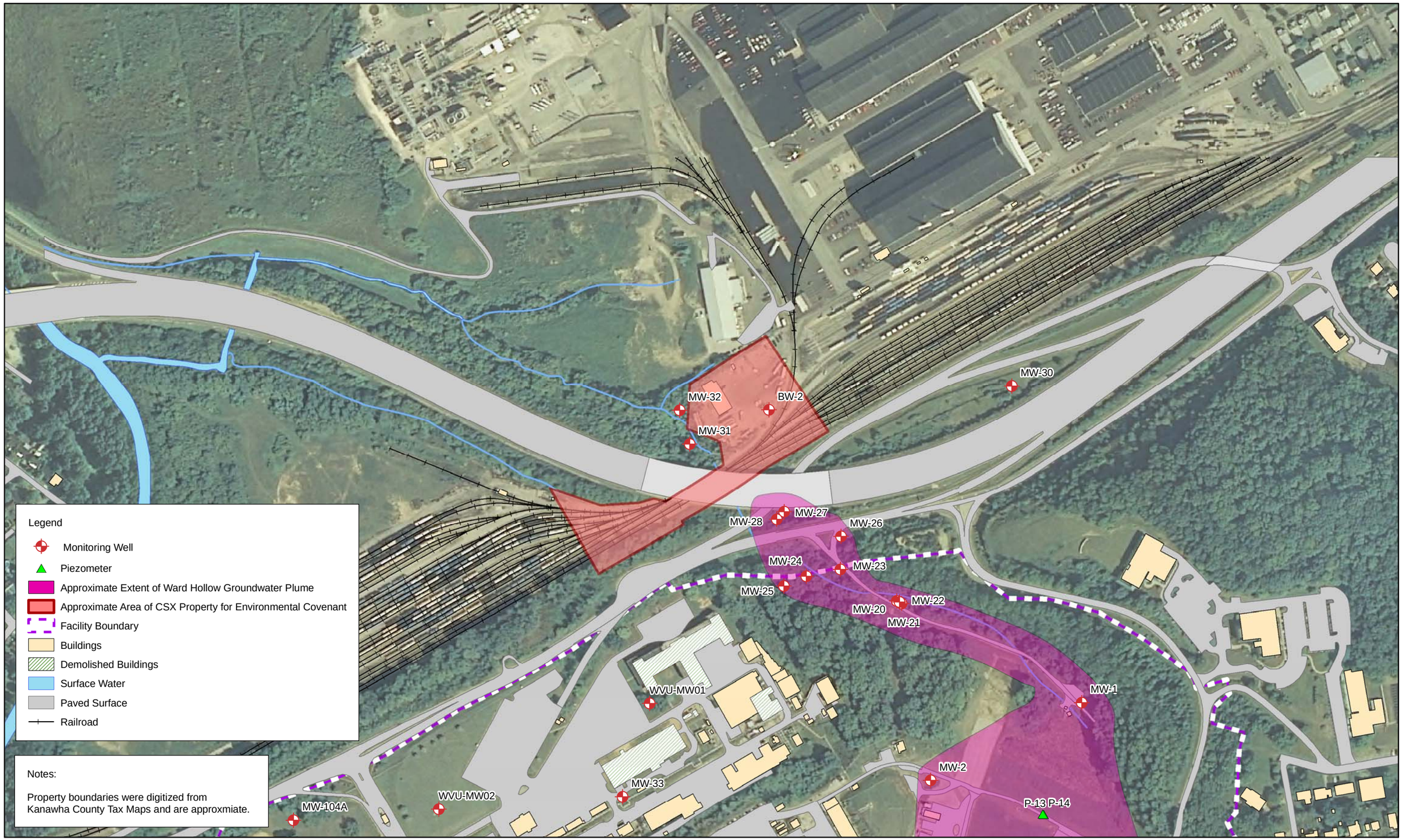

Figure 1
Property Map
UCC Technology Park
South Charleston, West Virginia

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Attachment 3

Legal Description of Site

Attachment 3 will be provided in a subsequent version of this document.

Attachment 4

Map of Site

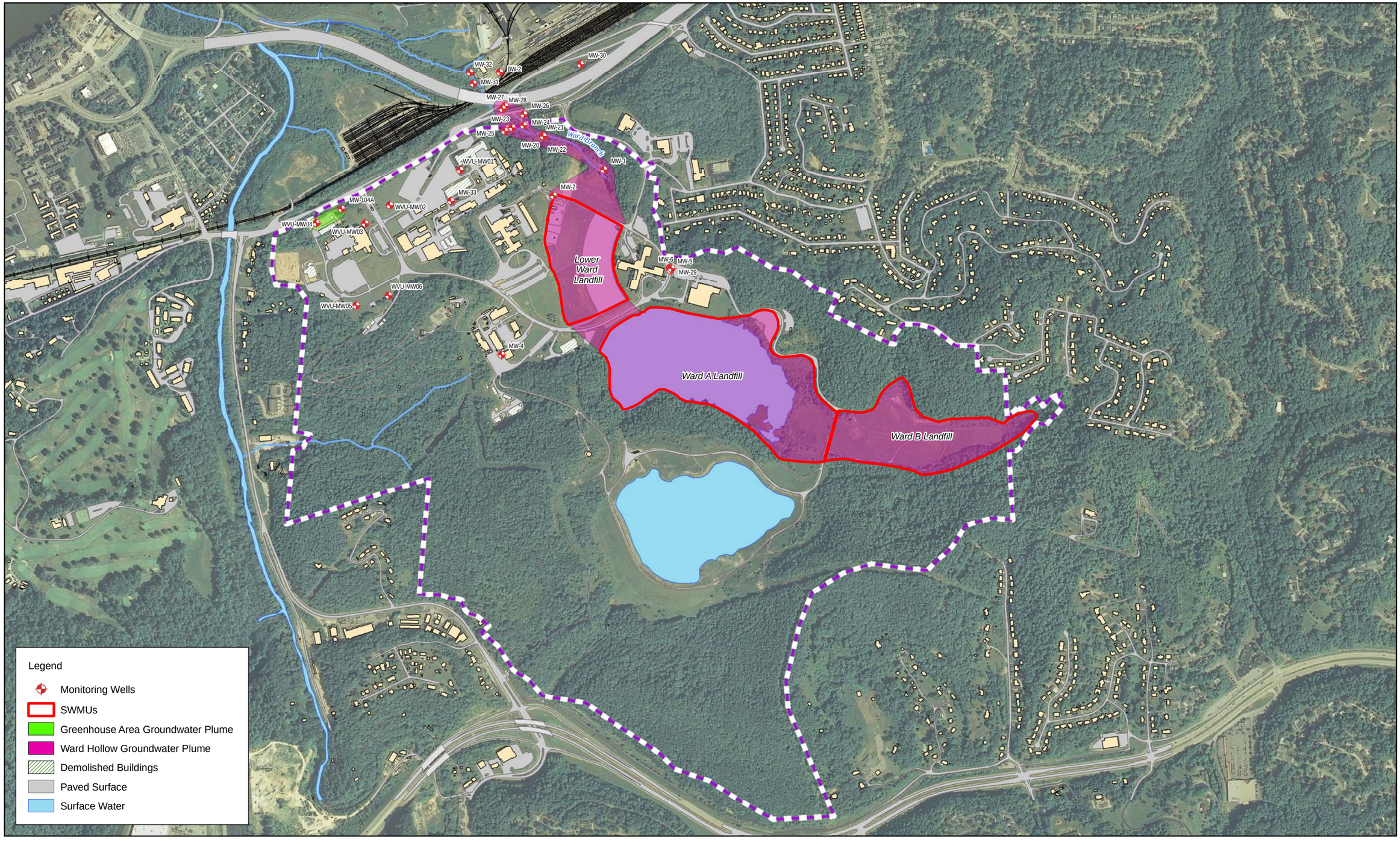

Figure 2
Site Map
UCC Technology Park
South Charleston, West Virginia

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ENVIRONMENTAL COVENANT

This is an environmental covenant executed pursuant to the Uniform Environmental Covenants Act, West Virginia Code Chapter 22, Article 22B, to restrict the activities on, and uses of, the following described property:

> The portion of the West Virginia Department of Transportation parcel (parcel ID#) in South Charleston, West Virginia as described in the legal description in Attachment 1. A map of the property is contained in Attachment 2.

The current Owner of the property is:

> West Virginia Department of Transportation
> Division of Highways
> 1900 Kanawha Blvd., East
> Building 5, Room 110
> Charleston, WV 25305

Activities on and uses of the above described property that may result in excessive human exposure or in the release of a contaminant that was contained as part of the remedial action related to this covenant are prohibited. Those activities and uses are:

A. **Groundwater Use—**The Owner shall not permit the use of groundwater from the property for any purpose other than for purposes of monitoring or remediation by Union Carbide Corporation (UCC) as approved by the Owner and the U.S. Environmental Protection Agency (USEPA) and/or the West Virginia Department of Environmental Protection (WVDEP). In the event that groundwater contaminated by the UCC Technology Park must be extracted from the property, either for highway purposes or for remediation, UCC shall be solely responsible for any additional costs incurred due to the environmental impacts associated with such removal and/or remediation, but only to the extent, if any, that such environmental impacts are due to conditions caused by UCC.

B. **Monitoring Well Protection/Access—**The Owner shall not remove any monitoring wells located on the property except as approved by USEPA or WVDEP. The Owner shall make every effort to avoid disturbing or damaging any monitoring wells located on its property. In the event of damage of a monitoring well by the Owner, the Owner shall notify UCC, US EPA and WVDEP, and UCC shall repair, replace or remove the affected monitoring well in accord with directives from US EPA and/or WVDEP. The Owner shall bear no responsibility for any damage to the monitoring wells, as long as the damage was either inadvertent or deemed necessary for highway purposes as determined by the Commissioner of Highways. If it is determined by the Owner that any monitoring wells must be abandoned for highway purposes, the Owner will obtain approval from US EPA and/or WVDEP and notify UCC so the monitoring wells can be properly abandoned by UCC in accordance with Title 47-Series 60 of the West Virginia Code of State Rules (CSR) or other applicable laws and regulations in effect at the time of the well abandonment. If the use of any monitoring well on the property is discontinued by UCC, the well shall be properly abandoned by UCC in accordance with requirements described

above. UCC is provided access to the property by the Owner to conduct groundwater monitoring from the wells, and for any necessary well maintenance, repair, replacement or abandonment and to comply with the provisions of this covenant.

Any person, including a person that owns an interest in the real property, the state or federal agency determining or approving the environmental response project pursuant to which an environmental covenant is created, or a municipality or other unit of local government may be a holder of an environmental covenant. The following are all of the holders of this covenant:

West Virginia Department of Transportation
Division of Highways
1900 Kanawha Blvd., East
Building 5, Room 110
Charleston, WV 25305

The facts regarding the remediation response project at this property are:

Union Carbide Corporation (UCC), A Wholly Owned Subsidiary of The Dow Chemical Company, is the owner of a "site", comprising approximately 650 acres adjacent to the subject property in the city of South Charleston, West Virginia. Attachment 3 contains a legal description of the site, and Attachment 4 contains a site map. USEPA issued the UCC site a Resource Conservation and Recovery Act (RCRA) corrective action permit on September 23, 1985.

As a result of an RCRA facility investigation (RFI), it was determined that shallow groundwater in Ward Hollow is impacted by a number of constituents that are related to closed landfills and former brine wells at the site. The most prominent constituents in groundwater in Ward Hollow are 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; arsenic; and barium. Other constituents above USEPA regional screening levels are bromomethane; chlorobenzene; bis(2-ethylhexyl)phthalate; lead; and naphthalene. These impacts have resulted in the Ward Hollow groundwater plume, which extends approximately 300 feet offsite from the UCC site and extends onto the subject property. Constituents above USEPA regional screening levels in groundwater on the subject property are 1,4-dioxane; benzene; bis(2-chloroisopropyl)ether; bis(2-ethylhexyl)phthalate; arsenic; barium; and lead.

USEPA is issuing a Statement of Basis identifying the approved corrective actions for the site and the Ward Hollow groundwater plume. The corrective action for the Ward Hollow groundwater plume requires recording an Environmental Covenant prohibiting the use of groundwater in areas where constituent concentrations exceed criteria. A portion the affected area extends onto the subject property currently owned by the West Virginia Department of Transportation, Division of Highways.

WVDEP issued a Hazardous Waste Management Permit (USEPA ID Number WVD060682291) to UCC for the site. The permit contains provisions requiring corrective action that fulfill the requirements for the approved corrective actions defined in the Statement of Basis issued by USEPA. These provisions will be

contained in the Corrective Action Module IV of the Hazardous Waste Management Permit.

The Owner of the property shall provide written notice to UCC, the Secretary of the Department of Environmental Protection and USEPA within 10 days following transfer of a specified interest in the property subject to this covenant, changes in use of the property, application for building permits regarding the property, or proposals for any site work affecting the contamination on the property.

In the event that the Commissioner of Highways authorizes any construction work on the property for highway purposes, and if such work might affect the UCC contamination on the property, the Owner shall notify UCC, which shall be responsible for any remediation to any groundwater contaminated by UCC, but only to the extent such contamination was caused by UCC, where remediation is required to complete such highway work, including the proper disposal of contaminated water and other materials, and UCC shall work with the Owner to ensure proper controls are in place to protect employees of the Owner who may be required to work on the property.

The Owner or UCC or their designated representatives shall conduct inspections of the property to monitor compliance with this Land Use Covenant at least once per year, and shall submit two (2) signed copies of the inspection monitoring report to the WVDEP, DLR headquarters in Charleston, within thirty (30) days of the inspection.

All restrictions and other requirements described in this covenant shall run with the land and shall be binding upon all holders and their grantees, lessees, authorized agents, employees, or persons acting under their direction or control.

This covenant shall not be amended, modified or terminated except by written instrument executed in accordance with W. Va. Code § 22-22B-10, by and between the Owner at the time of the proposed amendment, modification or termination, the Secretary of the West Virginia Department of Environmental Protection, the USEPA and UCC. Within 5 days of executing an amendment, modification or termination of this Land Use Covenant, the Owner shall record such amendment, modification or termination with the Clerk of the County Commission, and within 5 days thereafter, the Owner shall provide a true copy of the recorded amendment, modification or termination to the Secretary of the Department of Environmental Protection.

The administrative record for the environmental response project reflected in this covenant is maintained at the WVDEP Division of Water and Waste Management (DWWM) address below.

WVDEP
DWWM
601 57th Street
Charleston, WV, 25304

WVDEP is hereby granted full right of access to the property for the purpose of implementation or enforcement of this covenant.

UCC and WVDEP as parties to this covenant have the right to enforce the provisions of the covenant pursuant to W. Va. Code 22-22B-11

IN WITNESS WHEREOF, the following have executed this covenant on the dates indicated.

SIGNED: Date:

_____ _____

As the authorized representative of the,
West Virginia Department of Transportation,
Division of Highways

I, _____, a Notary Public in and for the County of Kanawha, State of West Virginia do hereby certify that ____ whose name is signed above, as the authorized representative of the West Virginia Department of Transportation, Division of Highways, signed above, this day executed this document in my presence or this day acknowledged same to be his/her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of Union Carbide Corporation

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of Union Carbide Corporation this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate)* true act and deed.

Given under my hand this the _____ day of _____, 2010.

SIGNED: Date:

_____ _____

As authorized representative of the West Virginia Department of Environmental Protection

I, _____, a Notary Public in and for the County of _____, State of West Virginia, do hereby certify that_____ whose name is signed above, as the authorized representative of the West Virginia Department of Environmental Protection this day executed this document in my presence or this day acknowledged same to be his/ her *(as appropriate*) true act and deed.

Given under my hand this the _____ day of _____, 2010.

Attachment 1

Legal Description of Property

Attachment 1 will be provided in a subsequent version of this document.

Attachment 2

Map of Property

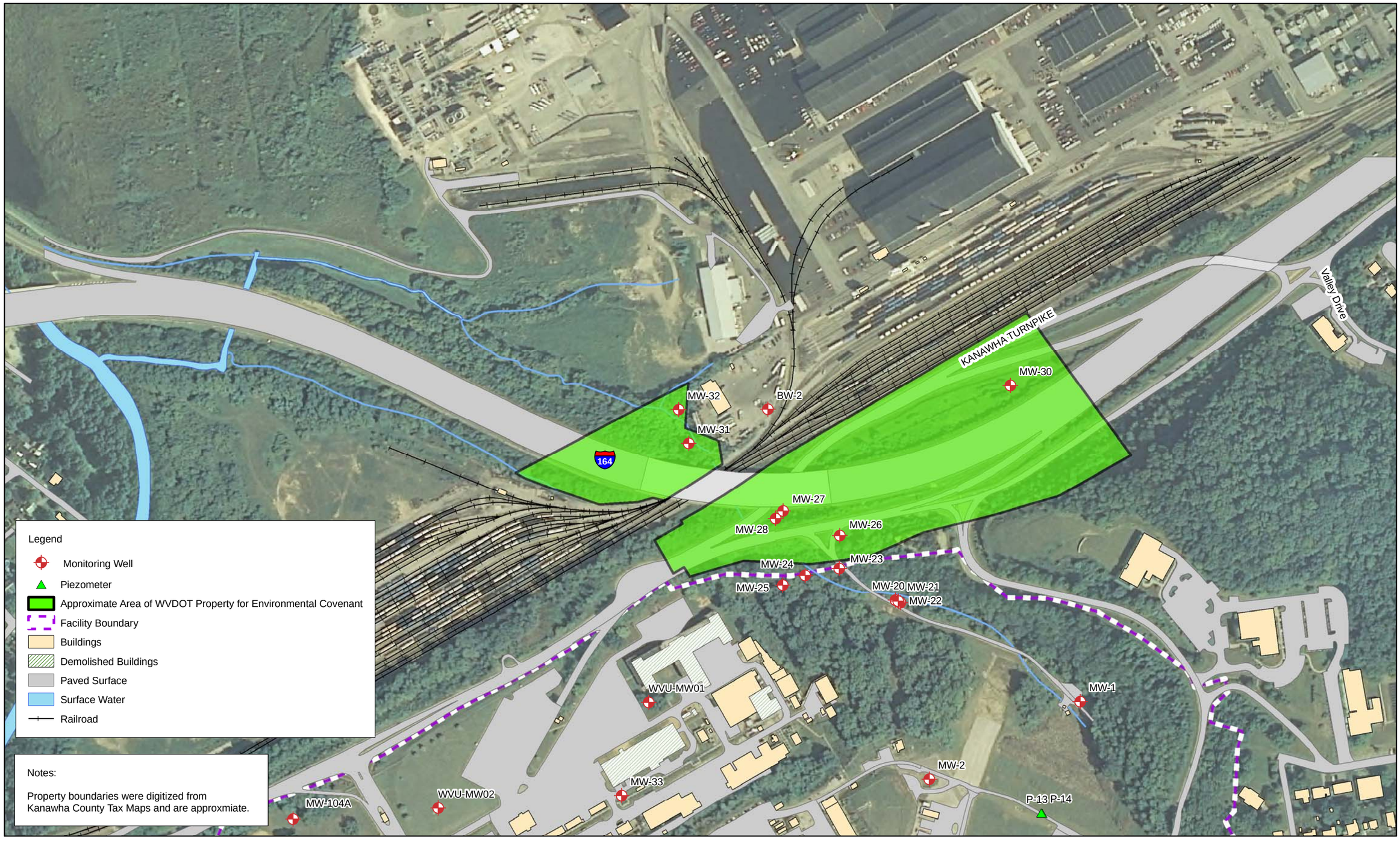

Figure 1
Property Map
UCC Technology Park
South Charleston, West Virginia

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Attachment 3

Legal Description of Site

Attachment 3 will be provided in a subsequent version of this document.

Attachment 4

Map of Site

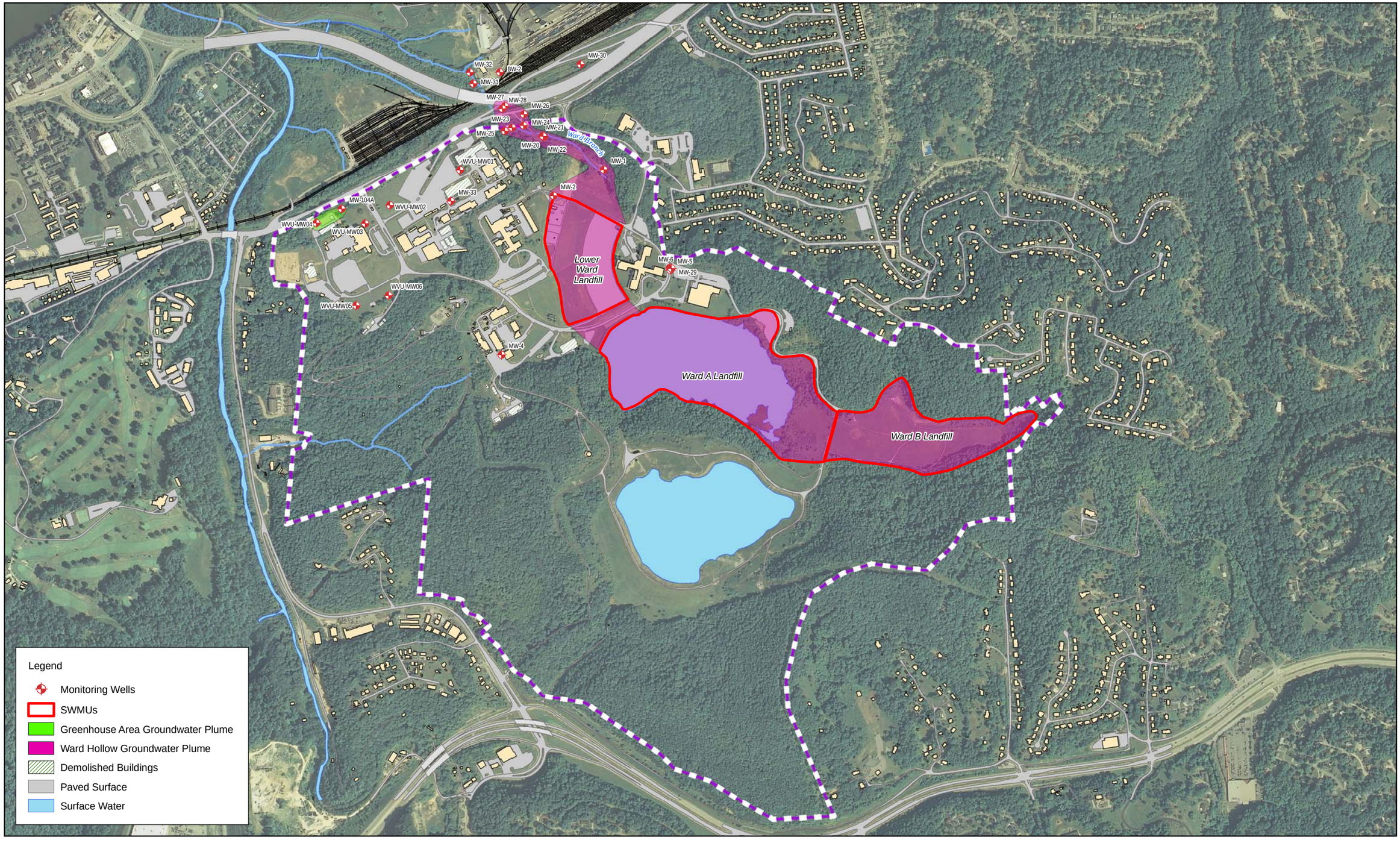

Figure 2
Site Map
UCC Technology Park
South Charleston, West Virginia

CH2MHILL

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Appendix E
Operations and Maintenance Manual

Appendix E will be provided in a subsequent version of this document.

Appendix F

Ward B Central Drain Sump Pumping System Construction Completion Report

Construction Completion Report
Ward B Central Drain Sump Pumping System Interim Remedy
UCC Technology Park

Prepared for

Union Carbide Corporation

A Wholly Owned Subsidiary of The Dow Chemical Company

March 2010

CH2MHILL

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2 Construction Activities **2-1**
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2-2 Ward B Central Drain Sump Pumping System Section, Details, and Equipment List
2-3 Ward B Central Drain Sump Pumping System Overflow Schematic Profile

Table

3-1 Project Schedule Milestones

Acronyms and Abbreviations

HDPE	high-density polyethylene
facility	UCC Technology Park
UCC	Union Carbide Corporation
USEPA	United States Environmental Protection Agency

SECTION 1

Introduction

Union Carbide Corporation (UCC), A Wholly Owned Subsidiary of The Dow Chemical Company, has been conducting corrective actions at the UCC Technology Park (hereafter referred to as the facility) in South Charleston, West Virginia since the 1980s. Correct actions are managed in accordance with the U.S. Environmental Protection Agency (USEPA) Region 3 Facility Lead Program. UCC entered the Facility Lead Program through an agreement signed by USEPA and UCC (effective December 15, 1999).

At the request of UCC, CH2M HILL prepared this construction completion report for construction activities completed at the site between 2007 and 2009. Construction activities were completed at Ward B Landfill to upgrade the central drain line to minimize stormwater infiltration and to redirect leachate that enters the central drain line from flowing to Ward A Landfill but instead pumping it to Holz Impoundment.

SECTION 2

Construction Activities

The central drain line (Figure 2-1) collects leachate from Ward B Landfill and, before 2007, stormwater runoff from the north boundary drainage ditch for Ward B Landfill. The purpose of the 2008 construction activities was to prevent water in the central drain line from discharging into Ward A Landfill while still providing for drainage of Ward B Landfill. To complete this:

- A sump, pumps, and piping were installed at the western end of the central drain line to capture leachate from the central drain line and pump it to the Holz Impoundment
- The aggregate covering the central drain line was removed and replaced with a soil cover (approximately 5 feet wide, approximately 1,000 feet long, and averaged 1 foot deep)
- Surface water from the north boundary drainage ditch was rerouted to Ward A Landfill via above ground drainage ditches, and the two connecting underground pipes were disconnected and plugged

The initial design completed by CH2M HILL for the sump pumping system planned to convey water from the central drain line sump to the Holz Impoundment decant line. During the site visit scoping walk, it was determined that water from the sump should not go to the decant line but should be conveyed directly to Holz Impoundment. The design was modified to reflect this change. The design was submitted to UCC Engineering for review. An initial set of comments was received, and the design was modified to incorporate these changes. The revised design was submitted to UCC Engineering and the local utility for final review and approval. The design was conditionally approved, pending the incorporation of several minor modifications. These modifications were completed as requested.

The work completed is provided below:

- The top 12 inches of existing gravel covering the central drain line was excavated. The volume of material removed was estimated to be approximately 200 cubic yards. The trench was approximately 1,000 linear feet long, approximately 5 feet wide, and averaged 1 foot deep. Gravel was transported to the materials storage area located approximately 1,500 feet west of Ward B Landfill and 100 feet north of Ward A Landfill.
- The existing gravel was replaced with 12 inches of clay; graded and compacted to match existing grade. The imported clay was compacted in place, in two 6-inch lifts.
- The finished surface was seeded with an annual rye grass and covered with straw mulch.
- The central drain line was terminated approximately 15 feet east of the Holz Impoundment access road (Figure 2-1).

- A precast concrete catch basin was installed with a closed manhole access at the termination of the central drain line. The precast concrete catch basin contained two electric, submersible pumps (2-horsepower) with level controls and a local, aboveground alarm panel capable of pumping approximately 25 gallons per minute, or 36,000 gallons per day (Figure 2-2).
- The two underground stormwater plastic french drains that conveyed stormwater from the north boundary drainage ditch to the central drain line were abandoned. The first pipe that was abandoned was located approximately 150 feet east of the Holz Impoundment access road. This western pipe was abandoned in place by grouting shut the opening at the upgradient end. A ditch was excavated from this pipe's point of origin to connect with the storm sewer pipe that passes under the Holz Impoundment access road. The second pipe, located approximately 950 feet east of the Holz Impoundment access road also was grouted closed at its point of origin.
- An approximately 750-foot-long trench (from the sump to the top of the hill north of the Holz Impoundment) was excavated to a depth of 3 feet below ground surface (Figure 2-1). Pipe bedding material and a 1.5–inch-diameter high-density polyethylene (HDPE) pipe was installed from the pump to the point of intersection with a 4-inch-diameter HDPE pipe in accordance with the design specifications. The 4-inch HDPE pipe was laid on the ground surface and conveyed water pumped from the sump into Holz Impoundment (Figure 2-1). The excavated material was used to cover the installed pipe (compacted in 6-inch lifts to the surface), seeded with annual rye grass, and covered with straw mulch.
- One power pole and a meter box were installed immediately north of the sump (Figure 2-1). The power company (American Electric Power) installed the power line from the power pole to the metering box. Greenwood made the electrical connections from the pumps to the metering box, including installation of the control panel for the pumps which was installed adjacent to the Holz Impoundment access road, just west of the sump.

After the central drain line sump pumping system was installed in 2007, field observations revealed that the amount of infiltration into the central drain line was more than estimated during design and the sump was overflowing onto the surrounding ground surface during rain events. To rectify this problem, the sump was modified in 2008 to allow water to discharge to Ward A Landfill if the flow in the central drain line exceeded the capacity of the pumping system. The modifications included a 6-inch-diameter HDPE bypass line cut into and sealed into the side of the sump (1 foot from the top of the sump [Figure 2-2 and 2-3]). This pipe was then connected to the former central drain line as it passes under the Holz Impoundment access road to act as a sump overflow.

SECTION 3

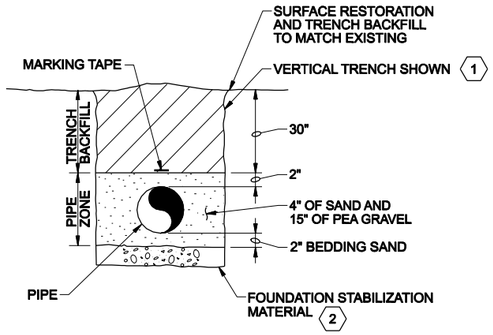
Project Schedule Milestones

Significant project activities, milestones, and events are listed in Table 3-1.

TABLE 3-1
Significant Project Schedule Milestones

Milestone	Start Date	Completion Date
Ward B Central Drain Sump Pumping System Construction	09/21/07	11/08/07
Ward B Sump / Pump Modification	09/03/08	2/13/09

Figures



KEY NOTES:

1. SLOPE TRENCH WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY AND IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS.
2. FOUNDATION STABILIZATION MATERIAL SHALL BE INSTALLED AS APPROVED AND DIRECTED.

A TYPICAL PIPE TRENCH SECTION

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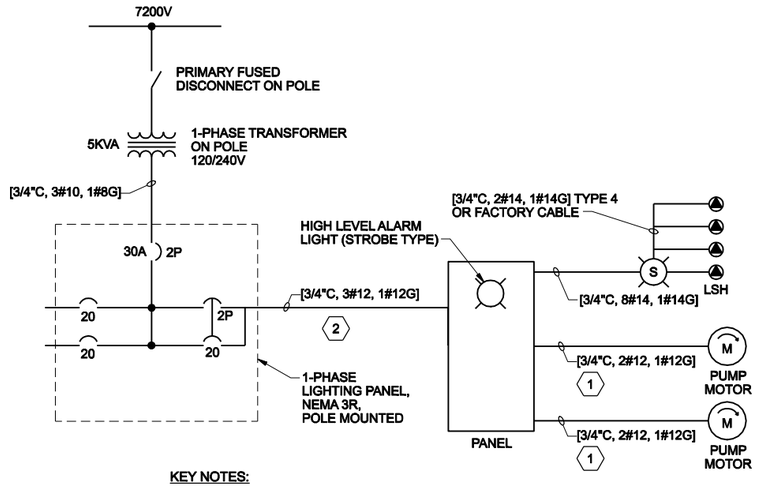


KEY NOTES:

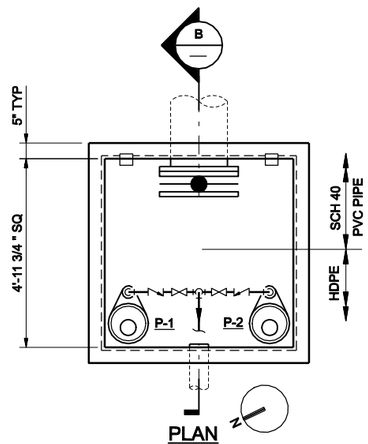
1. PROVIDE EXTRA CABLE IN MANHOLE FOR PUMP REMOVAL.
2. HEAT AND WATER RESISTANT THERMOPLASTIC WIRE.

2 ELECTRICAL ONE LINE DIAGRAM

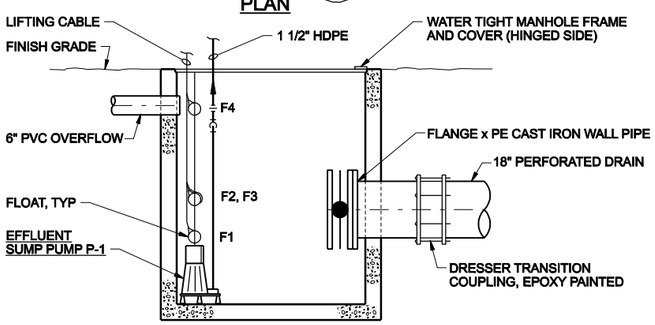
NOT TO SCALE

EQUIPMENT LIST

Item	Description	Type	Electric Volts	Electric Amps or	Performance	Manufacturer	Model	Accessories
P-1, P-2	Submersible Effluent Sump Pump	Electric	230 Volt, Single Phase	2 HP	10 gpm at 70'	Zoeller	E191	Cast Iron pump w/ 1 1/2" discharge, epoxy painted. Enclosed impellers capable of passing up to 5/8" solids.Float switches, Lockable NEMA 4 X control panel with starters, and top mounted alarm light. Discharge slide rails and quick disconnect. Power cord and level sensor (Type SO or SJO) to reach panel.
Pipe	HDPE	DR 32.5			50 psi rated			
Check Valve	CAST IRON	Swing				Spears		Solvent Ends
Butterfly Valve	BRASS					Spears		Flanged



PLAN



SECTION B

NOTES:

1. FIELD LOCATE ENDS OF 18" DRAIN LINE AND 4" OVERFLOW, VERIFY DIMENSIONS.
2. GROUT AND SEAL PENETRATIONS.
3. LOCATE PUMPS TO NOT INTERFERE WITH BUTTERFLY VALVE.
4. FLOAT F1: LOW FLOW SHUT-OFF
   FLOAT F2: PUMP P-1
   FLOAT F3: PUMP P-2
   FLOAT F4: HIGH FLOW SHUT-OFF

1 WARD B SUMP DETAIL

1/2" = 1'-0"

DESIGN BUILT DRAWING

NO.	DATE	DR	CHK	APVD	BY	APVD
DSGN	09/09	RAYOLO	MAREICHERT	CHECKED-BY	DM	APPROVED-BY

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FIGURE 2-2 - WARD B
CENTRAL DRAIN SUMP PUMPING SYSTEM
SECTION, DETAILS AND EQUIPMENT LIST

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	FEBRUARY 2010
PROJ	355724.05.CM
DWG	
SHEET	

KEY NOTES:

1. PROVIDE A POLE MOUNTED, 5 KVA TRANSFORMER WITH PRIMARY FUSED DISCONNECT ON THE POLE, A 3/4-INCH, RIGID STEEL CONDUIT WITH WEATHERHEAD (3#10, 1#8G) FROM THE TRANSFORMER TO A SMALL LIGHTING PANEL (120/240 VOLTS, 30 AMP MAIN CIRCUIT BREAKER WITH 2-20 AMP CIRCUIT BREAKERS, BRANCH CB'S, THE REST OF THE PANEL AS SPACES, NEMA 3R ENCLOSURE) MOUNTED ON THE POLE 6-FEET ABOVE GRADE. ONE 3/4-INCH, RIGID STEEL CONDUIT WITH 2#12, 1#12G FROM ONE 20 AMP CIRCUIT BREAKER IN PANEL FOR THE PUMP MOTOR AND ANOTHER CIRCUIT OF THE SAME SIZE FROM THE OTHER 20 AMP CIRCUIT BREAKER TO THE LEVEL SENSOR.
2. TRANSITION TO 4" HDPE. THE 1 1/2" HDPE TO RISE ABOVE GRADE AND BE INSERTED APPROXIMATELY 3'-0" INSIDE THE 4" PIPE.

DESIGN BUILT DRAWING

NO.	DATE	REVISION	BY	APVD
DSGN	09/09		DM	

DR RAYOLO | CHK JMHOLMQUIST | CHECKED-BY APVD | APPROVED-BY

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SOUTH CHARLESTON, WEST VIRGINIA

FIGURE 2-1 - WARD B
CENTRAL DRAIN SUMP PUMPING
SYSTEM AND ASSOCIATED PIPING

VERIFY SCALE
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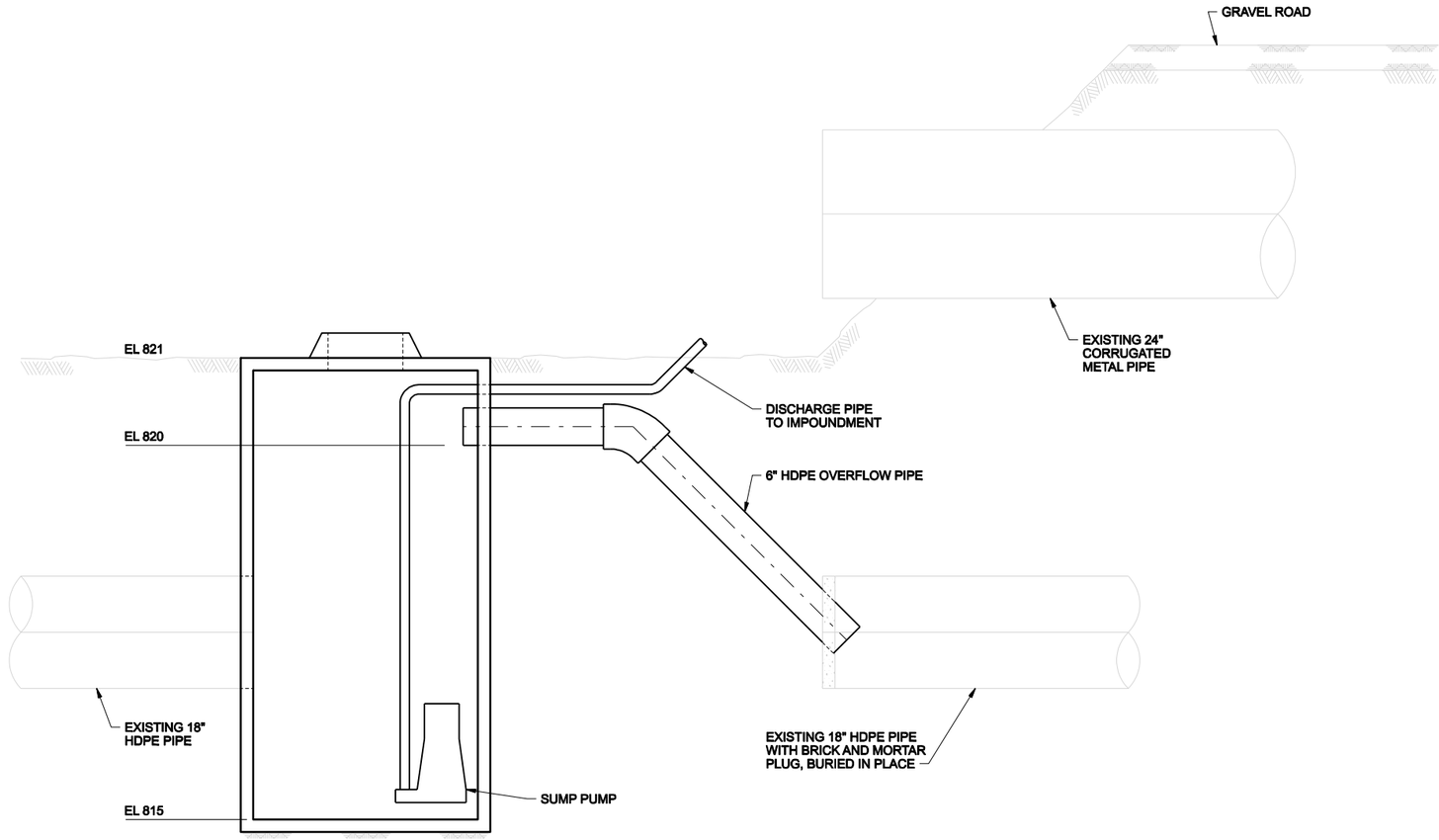

SCHEMATIC PROFILE

NOT TO SCALE

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DSGN	09/09	EJ BARCLAY	DA KIERZEK	CHECKED-BY	APPROVED-BY
			DM	BY	APVD

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FIGURE 2-3 - WARD B
CENTRAL DRAIN SUMP PUMPING SYSTEM
OVERFLOW SCHEMATIC PROFILE

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

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