FPM group — Engineering and Environmental Science

FPM Group, Ltd.
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MEMORANDUM

DATE: March 31, 2010

TO: See Distribution List

FROM: FPM Group

RE: Fall 2009 Annual Long-Term Monitoring Report
Six Mile Creek Area of Concern (AOC)
Former Griffiss Air Force Base, Rome, New York
Contract No. F41624-03-D-8601-0027
Revision 1.0
March 2010

FPM Group, Ltd. (FPM) is pleased to submit two (2) copies of the above-referenced Fall 2009 Annual Long-Term Monitoring Report for Six Mile Creek Area of Concern (AOC) at the former Griffiss Air Force Base, Rome, New York.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 202, or e-mail me at g.atik@fpm-group.com.

Very truly yours,

Gaby A. Atik, P.E.
Executive Vice President

Enc.

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Six Mile Creek Area of Concern
Long-Term Monitoring Program
Former Griffiss Air Force Base
Rome, New York

FALL 2009
ANNUAL
LONG TERM MONITORING
REPORT

Prepared by:

FPM Group, Ltd.
153 Brooks Road
Rome, NY 13441

Contract No. F41624-03-D-8601
Delivery Order: 0027

Revision 1.0
March 2010

FPM group

FALL 2009
ANNUAL
LONG-TERM MONITORING
REPORT

Prepared for:

Six Mile Creek Area of Concern
Long-Term Monitoring Program
Former Griffiss Air Force Base
Rome, New York

through

The Air Force Center for Engineering and the Environment
3300 Sidney Brooks
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Contract No. F41624-03-D-8601
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LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEE	Air Force Center for Engineering and the Environment
AFFF	Aqueous film-forming foam
AOC	Area of Concern
bgs	below ground surface
COC	contaminant of concern
CQCR	Chemical Quality Control Report
CSYA	Coal Storage Yard Area
DO	Delivery Order
DRMO	Defense Reutilization and Marketing Office
E&E	Ecology and Environmental, Inc.
EPA	U.S. Environmental Protection Agency
FDA	Food and Drug Administration
FPM	FPM Group, Ltd.
FSP	Field Sampling Plan
ft	feet
g.	grams
HSP	Health and Safety Plan
IRA	Interim Remedial Action
IT	International Technology Corp.
LAW	Law Engineering and Environmental Services, Inc.
LTM	Long-Term Monitoring
MSL	mean sea level
NYCRR	New York Code of Rules and Regulations
NYS	New York State
NYSBC	New York State Barge Canal
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU	Operable Unit
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PISCES	passive in-situ chemical extraction sample

QAPP	Quality Assurance Project Plan
RA	Remedial Action
RI	Remedial Investigation
ROD	Record of Decision
SI	Supplemental Investigation
SVOC	semi volatile organic compound
USFWS	United States Fish and Wildlife Service
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
WSA	Weapon Storage Area

1 INTRODUCTION

FPM Group, Ltd. (FPM), under contract with the Air Force Center for Engineering and the Environment (AFCEE), is conducting a long-term monitoring (LTM) program for sediment, surface water, fish tissue, and qualitative benthic macroinvertebrate community analysis at the Six Mile Creek Area of Concern (AOC) at the former Griffiss Air Force Base (AFB), Rome, New York. Please refer to Figure 1-1, for the Six Mile Creek AOC location.

The LTM program is part of the selected remedy as described in the signed Record of Decision (ROD) (Ecology and Environment, Inc. [E&E], December 2003). The LTM program will monitor the presence of contaminants of concern (COCs), assess the potential for migration of COCs and establish an early warning system for assuring compliance with potential COC receptors (human, terrestrial, and aquatic wildlife). The LTM program is conducted in accordance with provisions of the Basic Contract # F41624-03-D-8601 and Delivery Order (DO) # 0027.

Sediment, surface water, and fish tissue samples, as appropriate, were collected in October 2004 and analyzed for their respective COCs as identified during previous investigations. Qualitative benthic macroinvertebrate community analysis was performed at all fish sampling locations. In the Fall 2005, Fall 2006, Fall 2008, and Fall 2009 sampling rounds, only sediment and surface water samples were collected. In Fall 2007, fish tissue sampling and qualitative benthic community analysis were performed in addition to sediment and surface water sampling.

The sampling is being performed in accordance with the following documents: the final LTM Work Plan (WP) for the Three Mile Creek and Six Mile Creek AOCs (FPM, October 2004), Basewide Health and Safety Plan (HSP) (FPM, December 2003), and Basewide Field Sampling Plan (FSP) (FPM, March 2005). Reference is also made to the AFCEE Quality Assurance Project Plan (QAPP), Version 3.1 (AFCEE, August 2001) or later, with project-specific United States Army Corps of Engineers (USACE)-approved variances.

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2 BACKGROUND

2.1 Environmental Setting

2.1.1 Physiography and Topography

The former Griffiss AFB is located in the city of Rome in Oneida County, New York (refer to Figure 2-1). The former Base lies within the Mohawk Valley between the Appalachian plateau and the Adirondack Mountains. A rolling plateau northeast of the former Base reaches an elevation of 1300 feet (ft) above mean sea level (MSL). The New York State Barge Canal (NYSBC) and the Mohawk River valley south of the former Base lie below 430 ft MSL. The topography across the former Base is relatively flat with elevations ranging from 435 ft MSL in the southwest portion to 595 ft MSL in the northwest portion of the former Base.

2.1.2 Geology

Unconsolidated sediments at the former Base consist primarily of glacial till with minor quantities of clay and sand and significant quantities of silt and gravel. The thickness of these sediments ranges from 0 feet in the northeast portion to more than 130 feet in the southern portion of the former Base. The average thickness of the unconsolidated sediments is 25 to 50 feet in the central portion and 100 to 130 ft in the south and southwest portions of the former Base. The bedrock beneath the former Base generally dips from the northeast to the southwest and consists of the black Utica Shale. It is a gray and black carbonaceous unit with a high/ medium organic content (Law Engineering and Environmental Services, Inc. [LAW], December 1996). More details on the geologic features were discussed in Sections 3 and 4 of the AOC Long-Term Monitoring Baseline Study (FPM, July 2000).

2.1.3 Hydrogeology

The shallow water table aquifer lies within the unconsolidated sediments, where depth to groundwater ranged from 0 ft below ground surface (bgs) in the southwest portion to 63 ft bgs in the northeast portion of the former Base during the December 1998 synoptic Base-wide water-level measurement of wells (FPM, July 2000). Groundwater across the former Base generally flows from the northeast to the southwest. Several creeks, drainage culverts, and sewers (mostly acting as drains for shallow groundwater), intercept surface water runoff. A comprehensive description of regional and local geology, hydrogeology, and lithology for the former Base was given in Section 4 of the Long-Term Monitoring Baseline Study (FPM, July 2000), and in the Remedial Investigation (RI) prepared by Law (LAW, December 1996), and in the Supplemental Investigation (SI) prepared by E&E (E&E, November 1998).

2.1.4 Climate

The former Griffiss AFB experiences a continental climate characterized by warm, humid, moderately wet summers and cold winters with moderately heavy snowfalls. The mean annual precipitation is 45.6 inches, which includes the mean annual snowfall of 107 inches. The annual evapotranspiration rate is 23 inches. The average temperature during the winter season is 20 degrees Fahrenheit; temperatures during the spring, summer, and fall vary from 31 to 81 degrees Fahrenheit. The prevailing winds are from the southwest, with an average wind speed of 5 knots.

The former Base is located in a region prone to acid precipitation; the annual average pH of precipitation recorded for 1992 at the three closest stations ranged from 4.25 to 4.28. Fluctuations in pH have an inverse correlation to precipitation, such that lower pH levels correlate with higher amounts of precipitation (LAW, December 1996).

2.1.5 Biology

The former Griffiss AFB, covering 3,552 acres of property within the Erie-Ontario ecozone of the Great Lakes Physiographic Province, has been heavily disturbed from an ecological perspective. Although there are a few undisturbed communities within the former Base's boundary, the 1993 Inventory of Rare Plant Species and Significant Natural Communities identified six significant habitats of special concern occurring on the former Base (New York Natural Heritage Program, January 1994). There are five special-concern habitats identified by the Inventory that are adjacent to or within the confines of AOCs at the former Base. These special-concern habitats include: (1) a white-cedar-dominated rich sloping fen adjacent to the Six Mile Creek floodplain; (2) a hemlock-hardwood swamp located in a mature forest occurring hydraulically upgradient of Landfill 1 (Ammo Storage Area); (3) a rich graminoid fen adjacent to the southeast corner of the runway, situated on top of the buried section of Six Mile Creek; (4) a pitch pine-scarlet oak woods at the southeastern edge of Three Mile Creek; and (5) a hemlock-hardwood swamp of several acres at the southern end of Three Mile Creek. Three of the five habitats are of concern to the Six Mile Creek AOC (no. 1, 2, and 3), since they are located adjacent to Six Mile Creek or are located on sites that potentially influence Six Mile Creek. LTM activities will be performed strictly in Six Mile Creek or its banks; therefore, disturbance of these adjacent special-concern habitats is not anticipated.

Although no plant or animal species at the former Base has been considered threatened or endangered by the U.S. Department of the Interior, some species listed on the New York State (NYS) Threatened Species List have been identified, with habitats relevant to the AOCs at the former Base. Whorled mountain mint (*Pycnanthemum verticillatum* var *verticillatum*) has been identified in the open wet-meadow wetland at Landfill 7 (no. 5). It also thrives in the white-cedar-dominated rich sloping fen adjacent to the Landfill 1 (no. 1). Significant disturbance of the sites and vegetation is not expected during the execution of the LTM program.

3 SIX MILE CREEK AOC

3.1 Site Location and History

Six Mile Creek, a natural stream bordered by wetlands, enters the former Griffiss AFB from the North and exits to the southeast, intersecting the Base runway. The creek is approximately 8 feet wide and 1.5 feet deep prior to entering the Base and approximately 20 feet wide and 4 feet deep after leaving the former Base. The on-Base portion of the creek is approximately 8,400 feet long, split in an upper and a lower section, plus an additional 7,200 feet within the runway culvert separating both sections (Figure 3-1 and 3-2). The creek continues off Base for approximately 2 miles, ultimately flowing into the New York State Barge Canal.

Prior to Base construction, Six Mile Creek reportedly was used for agricultural irrigation. Currently, the on-Base portion of the creek serves as a surface water runoff and storm water drainage system for the Base. Six Mile Creek enters the Base through a water-control structure that maintains basal flow into the creek channel and diverts floodwaters through a diversion channel into the Mohawk River. A portion of the creek has been culverted.

Surface water runoff from Landfills 1, 2/3, and 7, the Weapon Storage Area (WSA), WSA Landfill, runway, on-Base shops, and Rainbow Creek flows to the creek. Leachate from the same landfills also discharges into the creek. In addition, portions of the On-Base storm water system discharge into the lower portion of the creek. The Base storm water system also received rinse water and washdown, which may have contained oils, solvents, and fuels from various Base shops.

The Six Mile Creek AOC also includes the aqueous film-forming foam (AFFF) lagoon, which is located between the WSA fence line and Perimeter Road. This 50-by-50-foot retention pond, which received aqueous waste overflow from the AFFF system at Building 917, has periodically overflowed, potentially resulting in surface discharges to Six Mile Creek.

Six Mile Creek has been classified as a New York State Department of Environmental Conservation (NYSDEC) Class C stream. The section of Six Mile Creek below the Base Perimeter Road is classified as Class C(t). According to the New York Code of Rules and Regulations (NYCRR) 701, the best usage for Class C stream waters is fishing, where waters shall be suitable for fish propagation and survival. Based on an Aquatic Habitat Assessment, at least 12 species of fish are found in Six Mile Creek (E&E, July 2003).

3.2 Hydrogeological Setting

Six Mile Creek is located in the northeastern part of the former Griffiss AFB. The topography is generally sloping towards the southeast. Six Mile Creek receives greatly varying amounts of inflow from off-Base sources through the Butternut Creek diversion ditch and from surface water

runoff from the watershed. Six Mile Creek also receives more stable amounts of groundwater inflow along its stretch.

3.3 Summary of Previous Investigations

Preliminary studies of Six Mile Creek were performed in 1981 and 1988. Soil, sediment, and fish tissue samples were collected. Numerous metals and polynuclear aromatic hydrocarbons (PAHs) were detected in the sediments. Several metals and polychlorinated biphenyls (PCBs) were detected in the fish tissue samples at levels below the Food and Drug Administration's (FDA's) action level of 2.0 ppm but above the 0.1 ppm level representing risk to piscivorous wildlife. The results of these studies led to the performance of an RI in 1994 and 1995.

The RI was performed to evaluate the nature and extent of environmental contamination at the site and to determine whether remedial action (RA) was necessary to eliminate potential threats to human health and the environment from exposures that might arise under existing or expected future site conditions. The RI included an aquatic survey that evaluated creek habitat, water quality, benthic and drift macroinvertebrate communities, and fish populations at three stations along the northern section of the creek (SMC-FS1, SMC-FS2, and SMC-FS3, similar in location to location 1, 2, as shown in Figure 3-1). At approximately the same three locations, sediment samples were collected for toxicity testing and fish samples were collected for pesticides, PCBs, and metals analyses. Results from the sediment toxicity tests performed as part of the aquatic survey indicated that chemicals were not present at levels acutely toxic to aquatic life; however, the benthic macroinvertebrate community at one station was classified as slightly impaired.

During the RI, surface water samples were collected over several rounds of sampling from 21 locations: 14 from Six Mile Creek, one at the AFFF lagoon, three in the Mohawk River, and three in the Barge Canal. Two volatile organic compounds (VOCs), 14 semi-volatile organic compounds (SVOCs), four pesticides, six metals, cyanide, and sulfide were detected at concentrations above the most stringent criteria for surface water. Sediment samples were collected at two depths below the surface water/sediment interface from the same 21 locations. Three VOCs, 18 SVOCs, 20 pesticides, one PCB and six metals were detected at concentrations above the most stringent criteria for sediment.

In 1995, the NYSDEC conducted a benthic macroinvertebrate community analysis for Six Mile Creek just downstream of the former AFB's boundary at the Route 365 bridge. Due to a significantly impacted benthic macroinvertebrate community, the water quality was assessed as being moderately impacted. Fish population data indicated that fish communities were generally in fair condition and whole-body fish tissue concentrations indicated that PCBs, pesticides and mercury were present at levels exceeding NYSDEC ecological risk guidelines. The concentration of PCBs in fish tissue also exceeded the previously mentioned FDA action level.

Also in 1995, NYSDEC performed passive in situ concentration/extraction sampling (PISCES*)*

on the lower portion of Six Mile Creek to test for PCBs and other organochlorines. No contaminants were detected. However, naturally occurring conditions, such as below average rainfall and low flow in the stream, may have affected the ability of PISCES samplers to detect contaminants.

As part of a basewide SI performed in June 1997, one water sample was collected from a storm sewer manhole located within the Six Mile Creek culverted section, and two surface water samples were collected from the storm sewer outfalls at the headwaters of Rainbow Creek. No contaminants were detected in these water samples. In addition, ten PISCES samples were collected for pesticides and PCBs analyses from Six Mile Creek, two from unnamed tributaries to the creek, and one from the Rainbow Creek Tributary. No PCBs were detected. The levels of pesticides found in Rainbow Creek and downstream in Six Mile Creek were higher than in the upper portion of Six Mile Creek and the other tributaries. There are no screening criteria for PISCES samples.

IT Corporation performed an Interim Remedial Action (IRA) in 1997 at the Coal Storage Yard Area (CSYA) Operable Unit (OU), which include the CSYA, the Defense Reutilization and Marketing Office (DRMO), and Area of Interest (AOI) 66. Rainbow Creek also underwent an IRA at the same time. PCB contaminated soil at the CSYA OU was removed until cleanup goals were reached (< 1 ppm PCB for soil up to 10 inches and <10 ppm for deeper soils). The Rainbow Creek IRA involved removing 1 ft of sediment over a 1,900-ft stretch of the creek. Results of the confirmatory sampling indicated that 30 of the 39 sampling locations exceeded the site cleanup goal of 0.0386 mg/kg PCB. No additional sediment removal was performed and the USACE recommended alternate engineering controls (geotextile fabric and 1 ft of crushed stone) to isolate contaminated sediments (E&E, July 2003).

In July 1998, additional SI samples were collected, primarily from off-Base locations, to fill data gaps that had been identified in the RI sampling. These included two surface water samples and 12 sediment samples. Three metals were detected above the most stringent criteria for surface water. Ten SVOCs, PCBs, dioxins/furans, and two metals were above the most stringent criteria for sediment.

In July 1999, the habitat quality of the creek was visually inspected by AFRPA, USACE, NYSDEC, Environmental Protection Agency (EPA), and United States Fish and Wildlife Service (USFWS). A brief walkover of the on-Base portion revealed the presence of orange floc (iron oxide) at a few locations above and below the culvert. This was attributed to the presence of leachate seeps with extensive orange floc upstream at Landfill 1. A more extensive walkover of the off-Base portion of the creek revealed an aquatic habitat of relatively high quality. The surrounding habitat is also of high quality for plants and wildlife, including extensive areas of forest, shrub, and emergent wetlands. The presence of cloudiness and some orange floc in the water column was observed. The floc is probably due to leachate seepage from Landfill 1. However, it should be noted that high concentrations of iron were observed in background

conditions (E&E, July 2003).

3.4 Six Mile Creek LTM Plan

The Six Mile Creek LTM Plan is summarized in Table 3-1. Annual sampling is planned for the fall, because the fat content of the fish tissue is the highest and consequently the highest concentration of lipophilic contaminants (e.g. PCBs) can be expected to have accumulated in fish tissue. During the initial sampling round, baseline information for sediment, surface water and fish tissue contaminants are planned. A qualitative benthic macroinvertebrate community analysis was also planned at each fish sample location.

The twelve sediment and surface water sampling locations, described in Table 3-2, were chosen based on the results from previous investigations and following discussions with NYSDEC and EPA personnel. The northing and easting of these locations are provided in Table 3-3. During the sediment sampling, sediment deposition locations in the vicinity of the proposed locations are targeted for sample collection.

The LTM program for the SMC AOC was implemented in October 2004. Initially, the sample locations were staked and inspected for accessibility. Sediment and surface water samples were collected during the first two days and fish tissue collection was performed the last three days. A qualitative benthic macroinvertebrate community analysis was also performed at each fish sampling location.

4 LTM SAMPLING ROUNDS

The LTM events consisted of annual sediment/ surface water sampling and triennial fish sampling (every third year; starting in Fall 2004). In conjunction with the fish sampling, a qualitative benthic macroinvertebrate community evaluation was also performed on a triennial basis.

The following sections provide the Fall 2009 LTM results. Only surface water and sediment sampling were conducted as part of the most recent sampling round. Detailed information pertaining to the Fall 2004, Fall 2005, and Fall 2006 sampling rounds can be found in the Fall 2006 Annual Long Term Monitoring Report, Six Mile Creek Area of Concern, Revision 1.0 (FPM, October 2007). The Fall 2007 sampling round data and discussion are provided in the Fall 2007 Annual Long Term Monitoring Report, Six Mile Creek Area of Concern, Revision 0.0 (FPM, October 2008). Lastly, the Fall 2008 sampling round data and discussion are provided in the Fall 2008 Annual Long Term Monitoring Report, Six Mile Creek Area of Concern, Revision 1.0 (FPM, August 2009).

Locations at this site were sampled according to the above-mentioned LTM sampling plan during the Fall 2004, Fall 2005, Fall 2006, and Fall 2007 sampling rounds. Sampling of the Fall 2008 and Fall 2009 rounds were performed according to the LTM optimization recommended in the Fall 2007 LTM report. During the Fall 2009 sampling round, SMC-1 was sampled in the original sampling location since the SMC weir was operating as intended. In addition, Rainbow Creek (location of SMC-11) was culverted in the fall of 2009. As a result, sampling location SMC-11 was removed from the SMC LTM network.

4.1 Fall 2009 Sampling

4.1.1 Field Activities

On October 1st, sediments and surface water samples were collected at sampling locations SMC-1, -4, and -5. Surface water results are provided in Table 4-1 and sediment results are provided in Table 4-2. Daily Chemical Quality Control Reports (CQCRs) are attached in Appendix A.

4.1.2 Surface Water Results

Sampling locations SMC-1, -4, and -5 were analyzed for target VOCs only. The 2009 VOC results were compared to past sampling rounds and the 1993/4 RI results. The validated lab results are attached in Appendix B and the raw lab data are attached in Appendix C.

VOCs were detected at these sampling locations, but at values below the New York State Surface water Standard.

Results indicate that the limited benzene contamination in the lower section of Six Mile Creek (sample locations SMC-4 and -5) is decreasing. These results are similar to those reported in the 1993/4 RI for the same sampling locations, but they are within one order of magnitude of the benzene exceedances reported in the previous sampling rounds as well as in the previous quarterly Petroleum Spill Sites LTM sampling rounds (September 2004 to September 2009) for sampling locations 782SW-118, -119, and -120. Sampling locations 782SW-118, -119, and -120 are located in the same stretch of SMC as sampling location SMC-4 and upstream of sampling location SMC-5. The petroleum contamination plume at Apron 2 reached SMC between 1994 and 2004 and is the likely source of the benzene detections. The Apron 2 contamination plume is currently undergoing groundwater remediation using horizontal biosparging. A figure illustrating the Petroleum Spill Site LTM surface water sample locations and historical surface water results tables are provided in Appendix D.

4.1.3 Sediments Results

Sediment samples collected at locations SMC-1, -4, and -5 were analyzed for SVOCs, PCBs, and pesticides. The validated and raw lab results are attached in Appendix B and Appendix C, respectively.

SVOC detections were reported at all sampling locations. SVOC exceedances were reported for sampling location SMC-4 only. Twelve SVOC exceedances were reported at this location ranging from 87 F µg/kg to 1000 µg/kg. None of the exceedances were over one order of magnitude of the most stringent ecological screening values.

Only one PCB exceedance was reported: Aroclor 1254 exceeded the most stringent ecological screening value (15.96 µg/kg) at sampling location SMC-4 (72.7 µg/kg). No PCBs were reported from sampling locations SMC-1 and -5.

Pesticides were reported from sampling location SMC-1 and -4. SMC-1 had an exceedance for dieldrin (0.90 F µg/kg). The most stringent ecological screening value for dieldrin is 0.02 µg/kg. SMC-4 had a DDD detection, which did not exceed the most stringent ecological screening value. No pesticide detections were reported for SMC-5.

In summary, SVOC exceedances were reported for sampling location SMC-4. The presence of the SVOC exceedance may be attributed to the culverting activities at Rainbow Creek. SMC-11, the upstream sampling location in Rainbow Creek, historically showed SVOC exceedances during the SMC LTM sampling events. During the culverting activities, the sediments may have been disturbed causing the downstream migration of SVOCs to SMC-4.

A PCB (Aroclor 1254) exceedance was reported for sampling location SMC-4. The PCB concentration reported in the Fall 2009 sampling is within one order of magnitude of the most stringent ecological screening value and the previous SMC-4 PCB detections. This location is

the first sampling location downstream of location Rainbow Creek which was part of the 1997 IRA (IT Corp, July 1998). SMC-11, located in Rainbow Creek, has shown PCB exceedances in all of the previous LTM sampling events. In the fall of 2009, Rainbow Creek was culverted, covering the sampling location.

4.1.4 Conclusions and LTM Optimization Recommendations

Fall 2009 surface water samples were analyzed for target VOCs only. COC detections were reported in this sampling round, but at values below the New York State Surface water Standard The sources of VOC contamination reported during the SMC LTM are currently undergoing active remediation.

The Fall 2009 sediment samples were analyzed for SVOCs, PCBs, and pesticides. SVOC exceedances were reported at SMC-4. SVOC concentrations at this location show a increasing trend, but can be attributed to the culverting activities at Rainbow Creek, upstream of SMC-4. The Fall 2009 PCB concentrations are similar to previous LTM results; these are attributed to residual contamination at Rainbow Creek following the 1997 removal action. The entire creek was culverted in 2009. Geotextile fabric was reinstalled above the relocated soils eliminating the pathways of contamination to downstream receptors.

Continued annual surface water and sediment sampling is recommended to monitor contamination degradation and migration. The future LTM sample network for the SMC AOC is shown in Table 4-3. The third round of fish sampling and qualitative benthic community evaluation will be conducted per Table 4-3 in Fall 2010.

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5 REFERENCES

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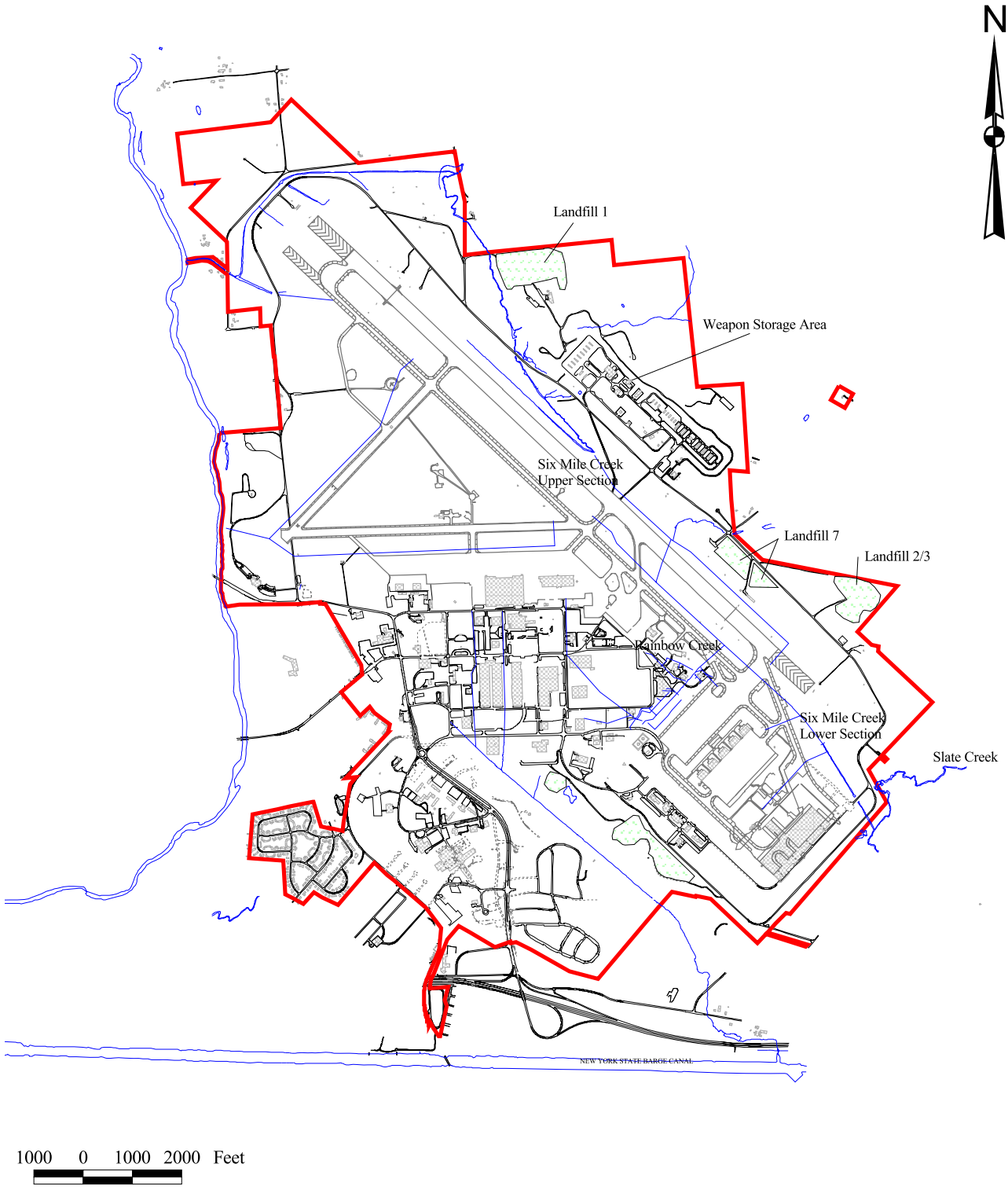
Figures



Legend

- AF Boundary
- Creek/Culvert
- Airfield
- Road
- Landfills
- Existing Facility
- Demolished Facility

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Figure 1-1
Six Mile Creek Site Location Map

FPM group

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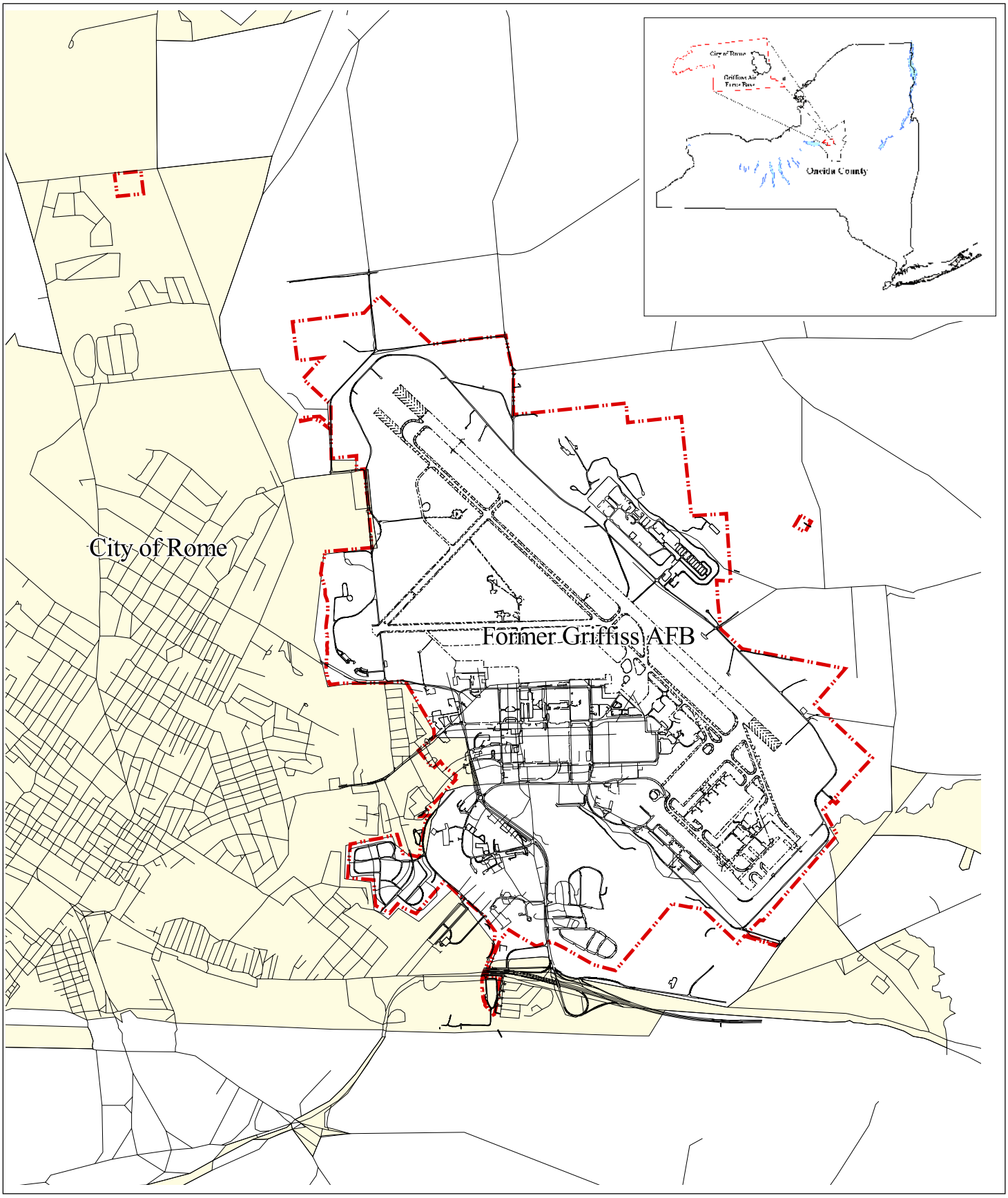

Figure 2-1
Base Location Map

N

2400 0 2400 4800 7200 Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

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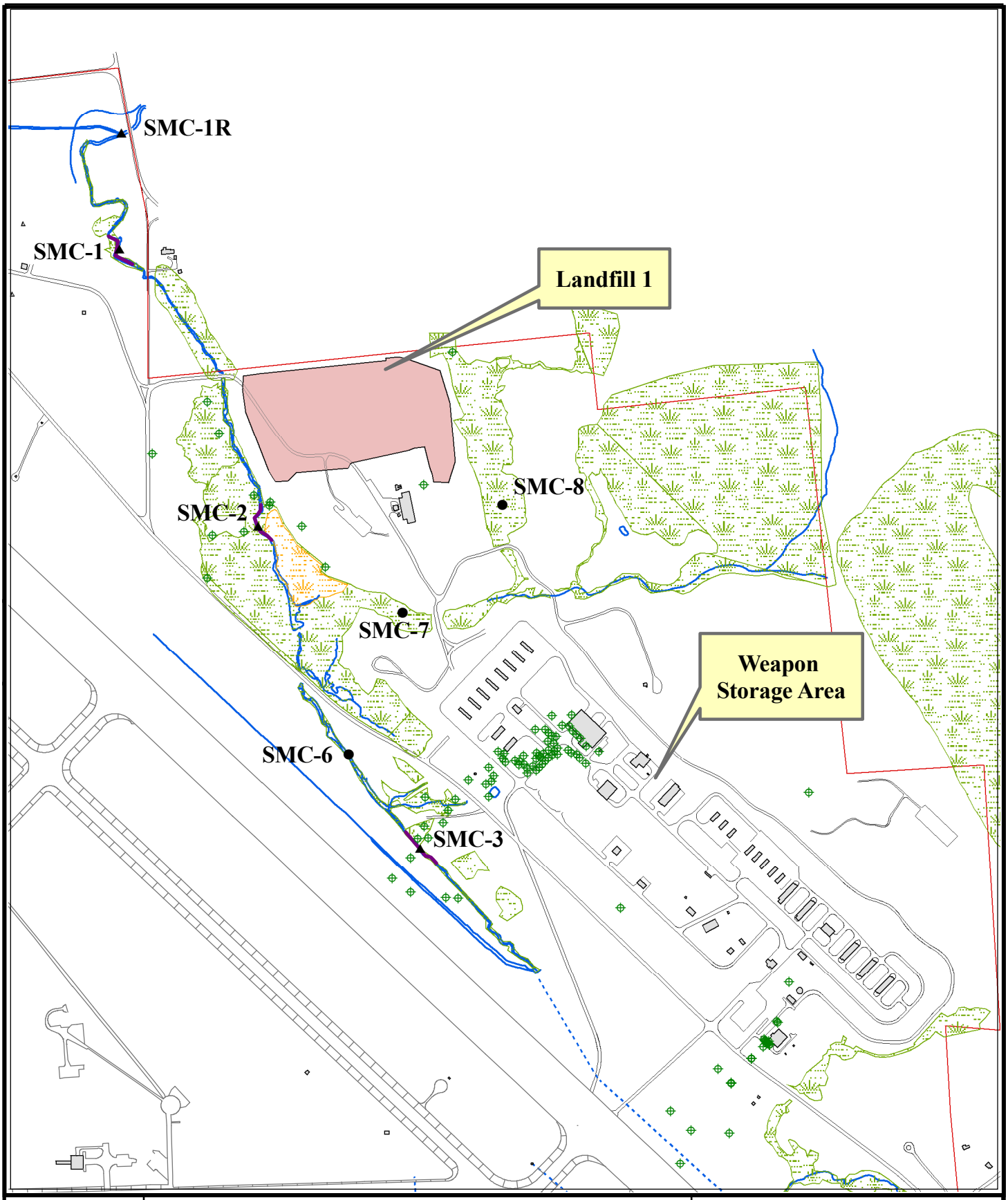

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME,NEW YORK

Figure 3-1
Six Mile Creek Upper Section Map

FPM group

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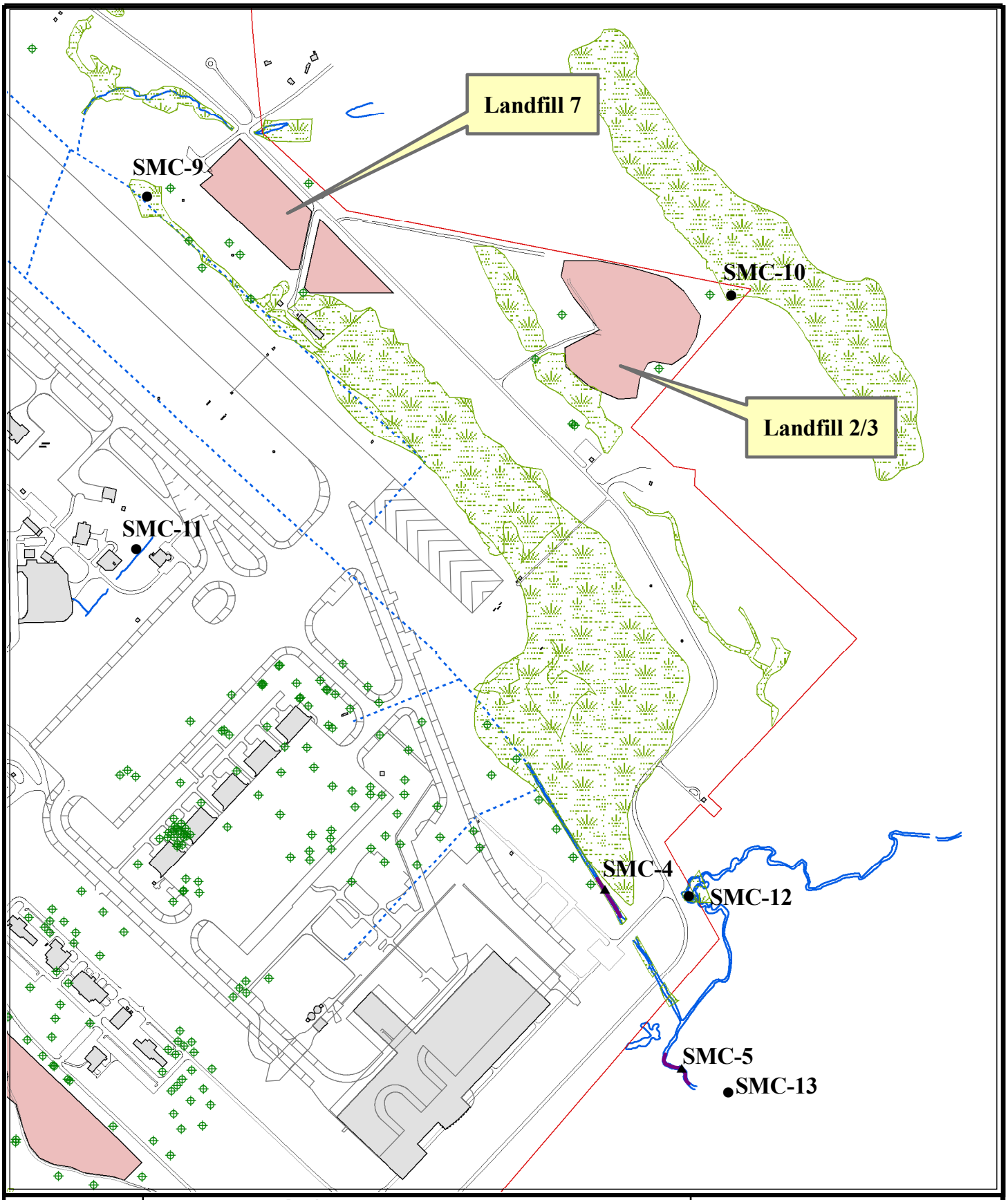

Site Location

Legend

- SMC Fish Location
- SMC Sediment/Surface water Location
- Groundwater Monitoring Well
- Airfield/Road
- Base Boundary
- Stream/Creek
- Storm Drain
- Fish Sampling Stretch
- Existing Facility
- Demolished Facility
- Wetland
- Landfill

N

425 212.5 0 425 850

Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME,NEW YORK

Figure 3-2
Six Mile Creek Lower Section Map

FPM group

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Tables

Table 3-1
Six Mile Creek LTM Field Activities Rationale

Matrix	Analysis	Frequency	Rationale
Sediment/ Surface Water	VOCs, SVOCs, metals, pesticides/ PCBs.	Annually [1]	Monitoring of contaminant migration and degradation in Six Mile Creek and adjacent potential source tributaries/ sites. Frequency based on relatively low flow regime and limited sediment transport.
Fish Tissue	Pesticides/PCBs, cadmium and mercury, % lipid.	Every three years [2]	Monitoring of fish for pesticides/PCBs, and cadmium and mercury is proposed to identify potential bioaccumulation of contaminants of concern.
Benthic Macroinvertebrate Organisms (Qualitative)	According to Bode et al. (September 1990) and Bode et al. (June 2002).	Every three years [2]	The quality of the benthic macroinvertebrate community in SMC will be evaluated applying NYSDEC-approved protocols.

Notes:
[1] An annual frequency for sediment sampling is commensurate with the rate at which changes in sediment quality are expected; that is, insofar as the sources of contamination are remediated. Frequent changes in sediment quality are not expected. Surface water samples are planned for collection at the same rate as sediments.
[2] A three-year frequency for fish tissue analysis and qualitative benthic macroinvertebrate community evaluation is commensurate with recommendations from NYSDEC personnel.

Table 3-2
Six Mile Creek Sampling Locations and Analyses

Location Number	Location within Six Mile Creek	Detailed Location Description	Sample Matrix	No. of samples per location	Analyses performed per sample	Total No. of Analyses
1	On the northern end of the upper section of SMC.	Appr. 800 ft downstream of the entrance point of SMC at Butternut Creek.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
			Fish Tissue	10 [2]	Fish suite [3]	40
2	Around the middle point of the upper section of SMC.	Appr. 3000 ft downstream of the entrance point of SMC on the Base.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
			Fish Tissue	10 [2]	Fish suite [3]	40
3	Upstream of the entrance to the culvert of SMC.	Appr. 1000 ft upstream of the start of the culvert.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
			Fish Tissue	10 [2]	Fish suite [3]	40
4	Upstream of Perimeter Road.	Appr. 300 ft upstream of the Base boundary in SMC.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
			Fish Tissue	10 [2]	Fish suite [3]	40
5	Downstream of confluence of SMC and Slate Creek.	Appr. 500 ft downstream of Base boundary.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
			Fish Tissue	10 [2]	Fish suite [3]	40
6	Downstream of the wetlands south of LF 1.	Appr. 600 ft. downstream of the underpass under Perimeter Road.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5

Notes:
[1] Full suite of analyses includes VOCs (SW 8260), SVOCs (SW 8270), metals (SW 6010B), pesticides (SW 8081) and PCBs (SW 8082).
[2] Fish samples are collected from the largest specimens available. A combined number of ten samples are collected from both the bottom feeder and predatory species, depending on availability. Fillet samples (5) analysis results are used for human evaluation. The offal samples (5) from the filleted fish are also analyzed so that results can be mathematically combined and used for ecological evaluation. If no fillets are available, 5 'whole fish' (beheaded and eviscerated) are collected and their offal is analyzed also. If no fillets or whole fish are available, 10 composite samples were collected.
[3] Fish suite of analyses includes pesticides/PCBs (SW8540C), cadmium and mercury (SW 6010B/ SW7470) and % lipid.

Table 3-2 (Continued)
Six Mile Creek Sampling Locations and Analyses

Location Number	Location within Six Mile Creek	Detailed Location Description	Sample Matrix	No. of samples per location	Analyses performed per sample	Total No. of Analyses
7	In the tributary northwest of the Weapons Storage Area.	Appr. 750 ft upstream in the tributary south of Landfill 1.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
8	In the wetlands east of Landfill 1.	Appr. 500 ft southeast of Landfill 1.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
9	In wetlands southwest of Landfill 7.	Appr. 750 ft southwest of Perimeter Road at the northern edge of the wetland.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
10	In wetlands northeast of Landfill 2/3.	Appr. 500 ft northeast of the Landfill 2/3 boundary.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
11	In Rainbow Creek, at the beginning of the culvert.	Appr. 50 ft southwest of the Rainbow Creek culvert.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5
12	In Slate Creek.	Appr. 1000 ft upstream of the confluence of SMC and Slate Creek.	Sediment	1	Full suite [1]	5
			Surface water	1	Full suite [1]	5

Notes:
1 Full suite of analyses includes VOCs (SW 8260), SVOCs (SW 8270), metals (SW 6010B), pesticides (SW 8081) and PCBs (SW 8082).
2 Fish samples are collected from the largest specimens available. A combined number of ten samples are collected from both the bottom feeder and predatory species, depending on availability. Fillet samples (5) analysis results are used for human evaluation. The offal samples (5) from the filleted fish are also analyzed so that results can be mathematically combined and used for ecological evaluation. If no fillets are available, 5 'whole fish' (beheaded and eviscerated) are collected and their offal is analyzed also. If no fillets or whole fish are available, 10 composite samples were collected.
3 Fish suite of analyses includes pesticides/PCBs (SW8540C), cadmium and mercury (SW 6010B/ SW7470) and % lipid.

Table 3-3
Six Mile Creek Sampling Locations
Longitude and Latitude

Sample Location ID	Longitude (degrees, minutes, seconds)	Latitude (degrees, minutes, seconds)
1	75° 24’ 53”	43° 14’ 50”
2	75° 24’ 41”	43° 14’ 32”
3	75° 24’ 25”	43° 14’ 09”
4	75° 23’ 07”	43° 12’ 54”
5	75° 23’ 01”	43° 12’ 46”
6	75° 24’ 33”	43° 14’ 17”
7	75° 24’ 28”	43° 14’ 26”
8	75° 24’ 20”	43° 14’ 33”
9	75° 23’ 48”	43° 13’ 41”
10	75° 22’ 55”	43° 13’ 34”
11	75° 23’ 50”	43° 13’ 17”
12	75° 23’ 00”	43° 12’ 54”

Table 4-1
Six Mile Creek Surface Water Sampling Results

Sample Location	NYS Surface Water Standards [1] (ppb)	SMC-1		SMC-1R	SMC-1			
Sample ID		RI Results (SMCSW-2)	SMCSW0101AA	SMCSW0101EA	SMCSW0101FA			
Date of Collection [2]		5/94 - 11/94	10/20/2004	11/24/2008	10/1/2009			
Sample Depth (ft bgs)		0-1	0-1	0-1	0-1			
VOCs (µg/L)								
1,1,1-trichloroethane	5*	U	U	U	U			
1,2,4-trimethylbenzene	5	U	U	U	U			
1,2-dichlorobenzene	3	U	U	U	U			
1,3,5-trimethylbenzene	5	U	U	U	U			
1,4-dichlorobenzene	3	U	U	0.17 F	U			
acetone	50	U	U	U	1.15 F			
benzene	1	U	U	U	U			
chlorobenzene	5	U	U	U	U			
chloroform	7	U	U	U	U			
chloromethane	--	U	U	U	U			
ethylbenzene	5	U	U	U	U			
methyl tert-butyl ether	10	U	U	U	U			
methylene chloride	5*	U	U	U	U			
methyl ethyl ketone (2-butanone)	--	U	U	U	U			
m,p,-xylene	5	U	U	U	U			
naphthalene	10	U	U	U	U			
trichloroethylene (TCE)	5	U	U	U	U			
toluene	5	0.093 J	U	U	U			

For Notes, refer to the end of Table 4-1.

Table 4-1
Six Mile Creek Surface Water Sampling Results

Sample Location	NYS Surface Water Standards [1] (ppb)	SMC-4						
Sample ID		RI Results (SMCSW-13)	SMCSW0401AA	SMCSW0401BB	SMCSW0401CA	SMCSW0401DA	SMCSW0401EA	SMCSW0401FA
Date of Collection [2]		5/94 - 11/94	10/20/2004	10/20/2005	10/17/2006	10/17/2007	11/24/2008	10/1/2009
Sample Depth (ft bgs)		0-1	0-1	0-1	0-1	0-1	0-1	0-1
VOCs (µg/L)								
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	U	U	U	0.220 F	0.130 F♦	0.7 F♦	0.240 F♦
1,2-dichlorobenzene	3	U	U	U	U	U	0.27 F	U
1,3,5-trimethylbenzene	5	U	U	U	U	0.130 F♦	0.27 F	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U
acetone	50	U	U	4.6 F	2.13 F	4.21 F	1.28 F ♦	1.39 F♦
benzene	1	0.11 J	5.8	2.1	5.92	3.38 ♦	2.53 ♦	0.780 ♦
chlorobenzene	5	U	0.28 F	U	U	U	0.19 F	0.230 F
chloroform	7	U	U	U	U	U	U	U
chloromethane	--	U	U	U	U	U	U	U
ethylbenzene	5	U	U	U	0.410 F	0,110 F♦	0.24 F	U
methyl tert-butyl ether	10	U	1.2 F	U	1.28 F	U	0.53 F	0.230 F♦
methylene chloride	5*	U	U	U	0.140 F	U	U	U
methyl ethyl ketone (2-butanone)	--	U	U	U	U	U	U	6.95 F♦
m,p,-xylene	5	U	U	U	0.890 F	0.340 FC	0.89 F	0.230 F♦
naphthalene	10	U	U	U	0.110 F	0.140 F♦	U	0.110 F♦
trichloroethylene (TCE)	5	U	U	U	U	U	U	U
toluene	5	U	U	U	U	U	U	U

For Notes, refer to the end of Table 4-1.

Table 4-1
Six Mile Creek Surface Water Sampling Results

Sample Location	NYS Surface Water Standards [1] (ppb)	SMC-5						
Sample ID		RI Results (SMCSW-14)	SMCSW0501AA	SMCSW0501BB	SMCSW0501CA	SMCSW0501DA	SMCSW0501EA	SMCSW0501FA
Date of Collection [2]		5/94 - 11/94	10/20/2004	10/20/2005	10/17/2006	10/17/2007	11/24/2008	10/1/2009
Sample Depth (ft bgs)		0-1	0-1	0-1	0-1	0-1	0-1	0-1
VOCs (µg/L)								
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	U	U	U	0.310 F	0.300 F	0.530 F	0.160 F
1,2-dichlorobenzene	3	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	U	U	U	U	0.160 F	U	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U
acetone	50	U	U	4.3 F	U	U	1.46 F	3.01 F
benzene	1	0.091 J	3.8	3.0	3.61	2.01	1.21	0.67
chlorobenzene	5	U	U	U	U	U	U	0.120 F
chloroform	7	U	U	U	U	U	U	U
chloromethane	--	U	U	U	U	U	0.37 F	U
ethylbenzene	5	U	0.23 F	U	0.370 F	0.180 F	0.13 F	U
methyl tert-butyl ether	10	U	1.1 F	0.50 F	0.850 F	U	0.24 F	U
methylene chloride	5*	U	U	U	U	U	U	U
methyl ethyl ketone (2-butanone)	--	U	U	U	U	U	U	3.97 F
m,p,-xylene	5	U	0.64 F	U	0.770 F	0.460 F	0.27 F	U
naphthalene	10	U	U	U	0.160 F	0.150 F	U	U
trichloroethylene (TCE)	5	U	U	U	U	U	U	U
toluene	5	U	U	U	U	U	U	U

For Notes, refer to the end of Table 4-1.

Surface Water:

B - Result is a positive value, however, the analyte was detected in an associated blank above the RL.
F - The analyte was positively identified above the MDL, however, the concentration is below the RL.
J - The analyte was positively identified, but the quantitation is an estimation.
M - A matrix effect was present.
NA - not analyzed
R - The data was rejected because QA/QC criteria were not met during the analysis.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
UJ - The analyte was analyzed for, but not detected. The quantitation is an approximation.
UM – The analyte was analyzed for, but not detected. A matrix effect was present.
[1] - The NYS Surface Water Standard for the protection of aquatic life from chronic effects is used if available and if lower than the surface water standard.
[2] - The different analyses for the sample locations sampled in the 1993/4 RI were collected at different times between 5/1994 and 11/1994.
 - Indicates an exceedance of the NYS Surface Water Standards.

Table 4-2
Six Mile Creek Sediment Sampling Results

Sample Location	Most Stringent Ecological Screening Value (µg/Kg) [1]	SMC-1					SMC-1R	SMC-1			
Sample ID		RI Results (SMCSD-2)	SMCSD0101AA	SMCSD0101BB	SMCSD0101CA	SMCSD0101DA	SMCSD0101EA	SMCSD0101FA			
Date of Collection		5/17/1994	10/20/2004	11/30/2005	10/16/2006	10/17/2007	11/24/2008	10/1/2009			
Sample Depth (ft TOIC)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5			
SVOCs (µg/Kg)											
2-methylnaphthalene	65	U	U	U	U		U	U			
acenaphthene	16	U	U	U	U	260 F	U	U			
anthracene	85	42 J	U	U	U		81 F	U			
benzo(a)anthracene	261	190 J	69 F	130 F	19 F	100 F	340 F	53 F			
benzo(a)pyrene	370	U	69 F	140 F	U	UM	250 F	48 F			
benzo(b)fluoranthene	--	150 J	U	160 F	31 F	UM	350 F	120 F			
benzo(k)fluoranthene	240	120 J	63 F	56 F	U	UM	130 F	29 F			
benzo(g,h,i)perylene	170	U	U	97 F	U	UM	170 F	U			
bis(2-ethylhexyl) phthalate	10453.8	U	U	U	U		U	U			
benzyl butyl phthalate	50000	U	U	74 F	U	37 F	U	U			
chrysene	340	260 J	81 F	U	U	UM	320 F	56 F			
dibenz(a,h)anthracene	60	U	81 F	140 F	U	95 F	U	U			
dibenzofuran	2000	U	U	U	U	UM	U	U			
diethyl phthalate	7100	U	U	U	U	UM	U	U			
fluoranthene	600	440 J	160 F	340 F	29 F		710 F	110 F			
fluorene	35	U	U	U	U	210 F	410 F	U			
indeno(1,2,3-c,d)pyrene	200	130 J	U	U	U	UM	310 F	U			
naphthalene	13000	U	U	U	U	U	U	U			
phenanthrene	240	390 J	110 F	240 F	U	180 F	530 F	64 F			
pyrene	490	580 J	130 F	290 F	28 F	260 F	720	110 F			
PCBs (µg/Kg)											
Aroclor 1248	15.96 [3]	-	U	U	U	U	UJ	U			
Aroclor 1254	15.96 [3]	U	U	U	U	U	UJ	U			
Aroclor 1260	5	-	U	U	U	U	UJ	U			
Pesticides (µg/Kg)											
delta BHC	0.04	U	U	U	0.97 F	U	UJ	U			
gamma BHC (Lindane)	0.05	U	U	U	U	U	UJ	U			
alpha-Chlordane	0.05	U	U	U	U	U	UJ	U			
p,p'-DDD	2	U	U	U	U	U	UJ	U			
p,p'-DDE	2	U	U	U	0.31 F	U	UJ	U			
p,p'-DDT	1	UJ	U	U	0.34 F	UM	UJ	U			
aldrin	0.00	U	U	U	U	U	UJ	U			
dieldrin	0.02	U	U	U	U	U	UJ	0.90 F			
alpha endosulfan	--	U	U	U	U	U	UJ	U			
beta endosulfan	--	U	U	U	U	U	UJ	U			
endosulfan sulfate	--	U	U	U	U	U	UJ	U			
endosulfan II	3.6	U	U	U	U	U	UJ	U			
endrin	3	U	U	U	U	U	UJ	U			
endrin aldehyde	5*	U	U	U	U	U	UJ	U			
heptachlor	0.04	U	U	U	U	U	UJ	U			
heptachlor epoxide	0.03	U	U	U	U	U	UJ	U			
methoxychlor	31.44	U	4.7 F	U	U	U	UJ	U			

For Notes, refer to the end of Table 4-2.

Table 4-2
Six Mile Creek Sediment Sampling Results

Sample Location	Most Stringent Ecological Screening Value (µg/Kg) [1]	SMC-4									
Sample ID		RI Results (SMCSD-13)	SMCSD0401AA	SMCSD0401BB	SMCSD0401CA	SMCSD0401DA	SMCSD0401EA	SMCSD0401FA			
Date of Collection		5/14/1994	10/20/2004	11/30/2005	10/17/2006	10/17/2007	11/24/2008	10/1/2009			
Sample Depth (ft TOIC)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5			
SVOCs (µg/Kg)											
2-methylnaphthalene	65	U	180 F	U	120 F	290 F ♦	U	58 F♦			
acenaphthene	16	U	U	U	U	U	U	87 F♦			
anthracene	85	U	U	U	U	U	U	150 F♦			
benzo(a)anthracene	261	U	190 F	120 F	83 F	56 F♦	100 F♦	630 F♦			
benzo(a)pyrene	370	U	420 F	120 F	100 F	U	90 F♦	680 F♦			
benzo(b)fluoranthene	--	U	460 F	180 F	230 F	U	150 F♦	1700 ♦			
benzo(k)fluoranthene	240	U	250 F	56 F	55 F	U	53 F♦	650 F♦			
benzo(g,h,i)perylene	170	U	220 F	110 F	45 F	U	100 F♦	240 F♦			
bis(2-ethylhexyl) phthalate	10453.8	240 J	U	200 F	60 F	90 F♦	93 F♦	37 F♦			
benzyl butyl phthalate	50000	U	U	U	U	850 F♦	U	U			
chrysene	340	U	270 F	150 F	110 F	57 F♦	120 F♦	1000 ♦			
dibenz(a,h)anthracene	60	U	120 F	U	U	U	U	78 F♦			
dibenzofuran	2000	U	U	U	U	U	U	66 F♦			
diethyl phthalate	7100	U	U	U	35 F	U	U	U			
fluoranthene	600	U	280 F	220 F	140 F	110 F♦	210 F♦	790 F♦			
fluorene	35	U	U	U	U	U	U	100 F♦			
indeno(1,2,3-c,d)pyrene	200	U	220 F	89 F	U	UM	250 F♦	160 F♦			
naphthalene	13000	U	U	U	U	93 F♦	110 F♦	92 F♦			
phenanthrene	240	U	130 F	120 F	80 F	68 F♦	130 F♦	740 F♦			
pyrene	490	U	220 F	180 F	190 F	110 F♦	200 F♦	830 F♦			
PCBs (µg/Kg)											
Aroclor 1248	15.96 [3]	-	54	9.9 F	U	U	U	U			
Aroclor 1254	15.96 [3]	U	61	52	67.1	120 J♦	14.5 F ♦	72.7			
Aroclor 1260	5	-	U	19 F	U	U	U	U			
Pesticides (µg/Kg)											
delta BHC	0.04	U	U	U	U	U	UJ	U			
gamma BHC (Lindane)	0.05	U	U	U	U	U	UJ	U			
alpha-Chlordane	0.05	U	U	U	0.57 F	UM	UJ	U			
p,p'-DDD	2	U	U	U	1.1 F	0.82 F♦	UJ	1.5 F			
p,p'-DDE	2	U	U	U	U	UM	UJ	U			
p,p'-DDT	1	UJ	18 F	11	16 J	U	UJ	U			
aldrin	0.00	U	U	U	U	U	UJ	U			
dieldrin	0.02	57	U	U	4.6 F	1.6 F♦	1.8 FJ ♦	U			
alpha endosulfan	--	U	U	U	1.6 F	U	UJ	U			
beta endosulfan	--	U	U	U	5.4 J	U	UJ	U			
endosulfan sulfate	--	U	U	U	U	UM	UJ	U			
endosulfan II	3.6	U	U	U	U	2.1 F♦	0.83 F	U			
endrin	3	U	U	U	2.2 F	0.69 F	UJ	U			
endrin aldehyde	5*	U	U	U	1.4 F	U	UJ	U			
heptachlor	0.04	U	U	U	U	U	UJ	U			
heptachlor epoxide	0.03	U	U	U	4.8 J	UM	UJ	U			
methoxychlor	31.44	26 J	U	U	U	U	UJ	U			

For Notes, refer to the end of Table 4-2.

Table 4-2
Six Mile Creek Sediment Sampling Results

Sample Location	Most Stringent Ecological Screening Value (µg/Kg) [1]	SMC-5									
Sample ID		RI Results (SMCSD-14)	SMCSD0501AA	SMCSD0501BB	SMCSD0501CA	SMCSD0501DA	SMCSD0501EA	SMCSD0501FA			
Date of Collection		5/14/1994	10/20/2004	11/30/2005	10/17/2006	10/17/2007	11/24/2008	10/1/2009			
Sample Depth (ft TOIC)		0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5			
SVOCs (µg/Kg)											
2-methylnaphthalene	65	210 J	84 F	U	U	62 F	U	U			
acenaphthene	16	U	U	U	U	U	U	U			
anthracene	85	U	U	U	26 F	63 F	U	U			
benzo(a)anthracene	261	U	U	U	68 F	26 F	U	U			
benzo(a)pyrene	370	U	U	U	63 F	36 F	U	U			
benzo(b)fluoranthene	--	55 J	U	71 F	140 F	580 F	U	U			
benzo(k)fluoranthene	240	23 J	U	73 F	34 F	280 F	U	U			
benzo(g,h,i)perylene	170	U	U	U	U	U	U	U			
bis(2-ethylhexyl) phthalate	10453.8	960	U	95 F	U	110 F	69 F	20 F			
benzyl butyl phthalate	50000	U	U	U	U	43 F	U	U			
chrysene	340	U	U	U	65 F	300 F	U	U			
dibenz(a,h)anthracene	60	U	U	U	U	U	U	U			
dibenzofuran	2000	U	U	U	U	U	U	U			
diethyl phthalate	7100	U	U	U	27 F	U	U	U			
fluoranthene	600	88 J	U	77 F	140 F	550 F	U	25 F			
fluorene	35	U	U	U	U	33 F	U	U			
indeno(1,2,3-c,d)pyrene	200	U	U	U	U	46 F	U	U			
naphthalene	13000	U	U	U	U	U	U	U			
phenanthrene	240	U	U	37 F	110 F	350 F	U	19 F			
pyrene	490	U	U	64 F	U	520 F	U	27 F			
PCBs (µg/Kg)											
Aroclor 1248	15.96 [3]	-	U	U	U	U	U	U			
Aroclor 1254	15.96 [3]	84 J	24 F	U	U	92.6	U	U			
Aroclor 1260	5	-	U	U	19.4 F	U	U	U			
Pesticides (µg/Kg)											
delta BHC	0.04	U	U	U	U	U	UJ	U			
gamma BHC (Lindane)	0.05	U	U	U	U	U	UJ	U			
alpha-Chlordane	0.05	U	U	U	U	U	UJ	U			
p,p'-DDD	2	U	U	U	1.1 F	3.0 F	UJ	U			
p,p'-DDE	2	U	U	U	0.31 F	U	UJ	U			
p,p'-DDT	1	UJ	11 F	U	U	U	UJ	U			
aldrin	0.00	U	U	U	0.28 F	U	UJ	U			
dieldrin	0.02	U	U	4 F	1.3 F	U	UJ	U			
alpha endosulfan	--	U	U	U	U	U	UJ	U			
beta endosulfan	--	U	U	U	1.0 F	U	UJ	U			
endosulfan sulfate	--	U	U	U	U	U	UJ	U			
endosulfan II	3.6	U	U	U	U	11 J	UJ	U			
endrin	3	U	U	U	0.66 F	4.5 F	UJ	U			
endrin aldehyde	5*	U	U	U	0.52 F	U	UJ	U			
heptachlor	0.04	U	U	U	U	U	UJ	U			
heptachlor epoxide	0.03	U	U	U	U	U	UJ	U			
methoxychlor	31.44	UJ	U	U	U	U	UJ	U			

For Notes, refer to the end of Table 4-2.

Sediment:

B - Result is a positive value, however, the analyte was detected in an associated blank above the RL.
F - The analyte was positively identified above the MDL, however, the concentration is below the RL.
J - The analyte was positively identified, but the quantitation is an estimation.
M - A matrix effect was present.
NA - not analyzed
R - The data was rejected because QA/QC criteria were not met during the analysis.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
UJ - The analyte was analyzed for, but not detected. The quantitation is an approximation.
UM – The analyte was analyzed for, but not detected. A matrix effect was present.
BHC – hexachlorocyclohexane
1 - This value is the most stringent criterion for ecological endpoints derived from Table 2-3a in the Final Three Mile Creek Feasibility Study Addendum (E&E, July 2002).
2 - The most stringent criterion for metals have been derived from Table 2 in Technical Guidance for Screening Contaminated Sediments (NYSDEC, January 1999).
- - This analyte was not sampled for in the 1993/4 RI.
-- - No most stringent ecological screening value is known for this compound.
 - Indicates an exceedance of the Most Stringent Ecological Screening Value.

Table 4-3
Six Mile Creek Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
SMC-1	Upgradient, FSS Location	**Surface Water** VOCs/SW8260 **Sediments** SVOCs/SW8270, Pesticides/SW8081, PCBs/SW8082 **Fish** PCBs/SW8082, % lipid.	Annually for sediment and surface water. Every three years for fish and benthic macroinvertebrates.	The list of analytes is identical to locations 4 and 5 to allow results comparisons.
SMC-2	Crossgradient, FSS Location	**Fish** PCBs/SW8082, % lipid.	Every three years for fish and benthic macroinvertebrates.	A third round of fish sampling is needed to confirm the absence of exceedances reported in the 2004 sampling round.
SMC-4 SMC-5	Downgradient, FSS Location Downgradient, FSS Location	**Surface Water** VOCs/SW8260 **Sediments** SVOCs/SW8270, Pesticides/SW8081, PCBs/SW8082 **Fish** PCBs/SW8082, % lipid.	Annually for sediment and surface water. Every three years for fish and benthic macroinvertebrates.	Surface water VOC exceedances were reported in SMC-4 and 5. Sediment samples at SMC-4 and -5 will be sampled for the identical analyses as SMC-11 to monitor potential downgradient contamination migration. PCB exceedances were reported in all fish samples at both sampling locations.

Table 4-3 (continued)
Six Mile Creek Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Recommended LTM Changes				
Removed Sampling Location				
SMC-11	Crossgradient, SS Location	**Surface Water** VOCs/SW8260 **Sediments** SVOCs/SW8270, Pesticides/SW8081, PCBs/SW8082		The sampling location has been eliminated as a result of the culverting of Rainbow Creek.

Table 4-3 (continued)
Six Mile Creek Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Historical LTM Changes				
October 2008				
Analysis/Frequency Changes				
SMC-1R	Upgradient, FSS Location	**Surface Water** VOCs/SW8260 **Sediments** SVOCs/SW8270, Pesticides/SW8081, PCBs/SW8082 **Fish** PCBs/SW8082, % lipid.	Annually for sediment and surface water. Every three years for fish and benthic macroinvertebrates.	The list of analytes is identical to locations SMC-4 and SMC-5 to allow results comparisons.
SMC-2	Crossgradient, FSS Location	**Fish** PCBs/SW8082, % lipid.	Every three years for fish and benthic macroinvertebrates.	Little or no exceedances have been reported for these sampling locations and all are attributable to lab contaminants, background conditions or are minor exceedances related to localized conditions not influencing the creek. Fish sampling results did not show any exceedances, but need to be confirmed with one additional sampling round.

Table 4-3 (continued)
Six Mile Creek Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Analysis/Frequency Changes				
SMC-4 SMC-5	Downgradient, FSS Location Downgradient, FSS Location	**Surface Water** VOCs/SW8260 **Sediments** SVOCs/SW8270, Pesticides/SW8081, PCBs/SW8082 **Fish** PCBs/SW8082, % lipid.	Annually for sediment and surface water. Every three years for fish and benthic macroinvertebrates.	Surface water VOC exceedances were reported in SMC-4 and 5. Sediment samples at SMC-4 and -5 will be sampled for the identical analyses as SMC-11 to monitor potential downgradient contamination migration. PCB exceedances were reported in all fish samples at both sampling locations.
Removed Sampling Locations				
SMC-3	Crossgradient, FSS Location	**Surface Water and Sediment** VOCs/SW8260, SVOCs/SW8270, Metals/SW6010, Pesticides/SW8081, PCBs/SW8082 **Fish** Cadmium/SW6010, Mercury/SW7471, Pesticides/SW8081, PCBs/SW8082,% lipid.	Annually for sediment and surface water. Every three years for fish and benthic macroinvertebrates.	Little or no exceedances have been reported for these sampling locations and all are attributable to lab contaminants, background conditions or are minor exceedances related to localized conditions not influencing the creek. Fish sampling results did not show any exceedances.

Table 4-3 (continued)
Six Mile Creek Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
Removed Sampling Locations				
SMC-6 SMC-7 SMC-8 SMC-9 SMC-10 SMC-12	SS Location SS Location SS Location SS Location SS Location SS Location	**Surface Water and Sediment** VOCs/SW8260, SVOCs/SW8270, Metals/SW6010, Pesticides/SW8081, PCBs/SW8082	Annually for sediment and surface water.	Little or no exceedances have been reported for these sampling locations and all are attributable to lab contaminants, background conditions or are minor excee-dances related to localized con-ditions not influencing the creek.
SMCMI-13	Downgradient, MI Location	**Benthic Macroinvertebrates** Cadmium/SW6010, Mercury/SW7471, Pesticides/SW8081, PCBs/SW8082, % lipid.	Every three years for benthic macroinvertebrates.	The chemical analysis seems to indicate that poor benthic macroinvertebrate yields are the result of poor habitat. No additional sample is needed.
March 2006				
Additional Sampling Locations				
SMCMI-13	Downgradient, MI Location	Qualitative benthic community evaluation	Every three years for benthic macroinvertebrates	An additional downgradient macroinvertebrate sampling location was propsed by the NYSDEC. Sampling location was stituated at the exact location NYSDEC sampled in 1996 and 2000.

Notes:
FSS = Fish, sediment and surface water.
SS = Sediment and surface water.

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Appendix A
Daily Chemical Quality Control Reports

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Daily Chemical Quality Control Report

Project/Delivery Order Number: F41624-03-D-8601-0027 Date: 10/01/09

Project Name/Site Number: Griffiss AFB Creek Sites sampling (Six Mile Creek and Three Mile Creek).

Weather conditions: Temperature: 46 Average barometric reading: 30.0
Wind direction and speed: North-northwest 1.0 mph
Significant wind changes: None.

General description of tasks completed: Surface water sampling at Site Six Mile Creek (SMCFSS-1, -4, and -5) and Site Three Mile Creek (TMCFSS-1, -2, -3, -4, -5, TMCSS-6, -7, and -8). Sediment sampling at Site Six Mile Creek (SMCFSS-1, -4, and -5) and Site Three Mile Creek (TMCFSS-1, -2, -3, -4, -5, TMCSS-6, -7, and -8)

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: None.

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: None.

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed: √ Yes □ No LSL Courier.

DCQCR Prepared by: Niels van Hoesel, FOM Date: 2 October 2009

CQCC Signature: Concordia van Hoesel Date: 10/4/09

ATTACHMENTS:

Checklist	Daily Chemical Quality Control Report Attachments
√	✓ Field sampling forms
√	✓ Equipment Calibration Log
√	✓ Copies of COCs
	✓ SDG Table (See accompanying COCs)
√	✓ Daily Health and Safety Meeting Form

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DB JW MC

Location and Site Code (**SITEID**): SMC

Well No. (**LOCID**): RV-SMC FSS-1 Well Diameter (**SDIAM**): -

Date (**LOGDATE**): 10-1-09 Weather: cloudy 48°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

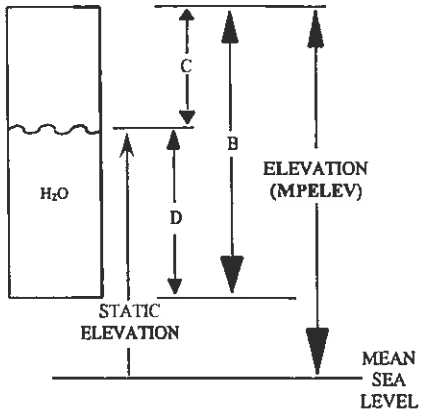
Measured Well Depth (B) (**TOTDEPTH**) _____ ft.

Measured Water Level Depth (C) (**STATDEP**) _____ ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft.

Casing Water Volume (E) = _____ (A) x _____ (D) = _____ gal

Minimum Purge Volume = _____ gal (3 well volumes)



Purge Date and Method: SW/Sed Grab 10-1-09

Physical Appearance/Comments: clear, no odor, substrate is rocky w/ sand mixed in.

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1551	—	8.29	16.6	15.98	0.0	12.26	214

Sample Time: 1552 Sample ID: SMCSW0101FA

1554 SMCSD0101FA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DB, SW, MC

Location and Site Code (**SITEID**): SMC

Well No. (**LOCID**): SMCSD-13 (SMC-4) Well Diameter (**SDIAM**): —

Date (**LOGDATE**): 10-1-09 Weather: cloudy 40°

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

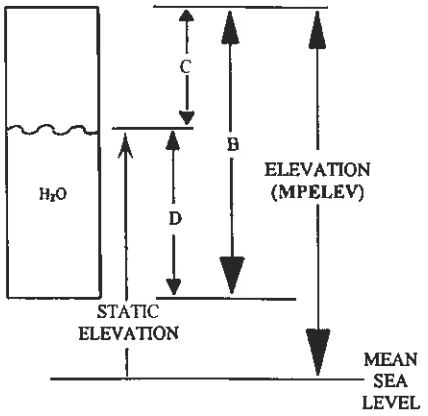
Measured Well Depth (B) (**TOTDEPTH**) _____ ft.

Measured Water Level Depth (C) (**STATDEP**) _____ ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft.

Casing Water Volume (E) = _____ (A) x _____ (D) = _____ gal

Minimum Purge Volume = _____ gal (3 well volumes)



Purge Date and Method: SW/Sed Grab 10-1-09

Physical Appearance/Comments: clear, no odor, substrate is silty, sandy

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1522	—	8.09	35.9	17.26	0.0	12.12	80

Sample Time: 1524 Sample ID: SMCSW0401 FN/FC

1526 SMCSD0401 FN/FC

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 40-05-27 Sampled by: DB, JW, MC

Location and Site Code (**SITEID**): SMC

Well No. (**LOCID**): SMC5D-14 Well Diameter (**SDIAM**): —

Date (**LOGDATE**): 10-1-09 Weather: cloudy

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

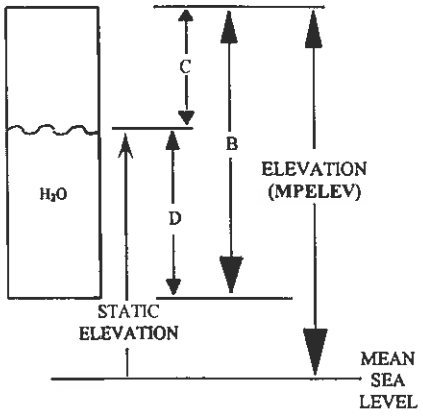
Measured Well Depth (B) (**TOTDEPTH**) _____ ft.

Measured Water Level Depth (C) (STATDEP) _____ ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft.

Casing Water Volume (E) = _____ (A) x _____ (D) = _____ gal

Minimum Purge Volume = _____ gal (3 well volumes)



Purge Date and Method: SW/Sed Grab 10-1-09

Physical Appearance/Comments: Water is clear, no odor, substrate is rocky w/ Some sand mixed in,

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1256	—	8.31	34.6	17.02	0.0	12.13	246

Sample Time: 1500 (1458) Sample ID: SMCSW0501FA SMC5D0501FA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

Equipment Calibration Log

Instrument Name: Horiba #1

Model Number: _____

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
6-23-09	4.00	4.00			
6-24-09	4.00	4.00			
9-14	4.00	3.99			
9-15	4.00	3.99			
9-16	4.00	3.97	4.00	3.97	
10-1	4.00	3.98	4.00	3.99	

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _234_ Cooler ID#: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB SMC LTM Sampler Name: Niels van Hoesel	Send Results to: Niels van Hoesel FPM Group Ltd. 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 205

Analyses requested

Field Sample ID	LocID	Date 2009	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note 1 4 oz glass jar	VOCs note 1 40 mL vial	SVOCs, PCBs, Pesticides note 2 8 oz glass jar	Comments
SMCSD0101FA	RV-SMCFSS-1	10/1	1554	SE	G	N	0/0.5	1	-	-	1	
SMCSD0401FA	SMCSD-13	10/1	1526	SE	G	N	0/0.5	1	-	-	1	
SMCSD0401FC	SMCSD-13	10/1	1526	SE	G	FD	0/0.5	1	-	-	1	
SMCSD0501FA	SMCSD-14	10/1	1500	SE	G	N	0/0.5	1	-	-	1	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0)
Note 1: VOCs: Method SW8260 for AFCEE QAPP 4.0 List.
Note 2: SVOCs: Method SW8270 for AFCEE QAPP 4.0 List, PCBs: Method SW8082 for AFCEE QAPP 4.0 List, Pesticides: Method SW8081 for AFCEE QAPP 4.0 List.
Note 3: Metals: Method SW6010B for AFCEE QAPP 4.0 List and Mercury: Method SW7471.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 10/2/09	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 14:40	Company Name:	Time:
#1 Received by: (Sig) Niels van Hoesel	Date: 9/25/09	#2 Received by: (Sig)	Date: 10-2-09	#3 Received by: (Sig)	Date:
Company Name: FPM Group Ltd	Time:	Company Name: Life Science Labs	Time: 1445	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water
SE = Sediment

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _233_ Cooler ID#: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB SMC LTM Sampler Name: Niels van Hoesel	Send Results to: Niels van Hoesel FPM Group Ltd. 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 205

Analyses requested

Field Sample ID	LocID	Date 2008	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note 1 40 mL Vials (HCl)	SVOCs note 2 1 L amber bottle	PCBs note 3 1 L amber bottle	Pesticides note 4 1 L amber bottle	Metals note 5 250 mL poly bottle HNO3	Comments
SMCSW0101FA	RV-SMCFSS-1	10/1	1552	WS	G	N	0/0	3	3	-	-	-	-	
SMCSW0401FA	SMCSD-13	10/1	1524	WS	G	N	0/0	3	3	-	-	-	-	
SMCSW0401FC	SMCSD-13	10/1	1524	WS	G	FD	0/0	3	3	-	-	-	-	
SMCSW0501FA	SMCSD-14	10/1	1458	WS	G	N	0/0	3	3	-	-	-	-	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0)

Note 1: VOCs: Method SW8260 for AFCEE QAPP 4.0 List.
Note 2: SVOCs: Method SW8270 for AFCEE QAPP 4.0 List.
Note 3: PCBs: Method SW8082 for AFCEE QAPP 4.0 List.
Note 4: Pesticides: Method SW8081 for AFCEE QAPP 4.0 List
Note 5: Metals: Method SW6010B for AFCEE QAPP 4.0 List and Mercury: Method SW7470.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 10/2/09	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 14:40	Company Name:	Time:
#1 Received by: (Sig) Niels van Hoesel	Date: 10/1/09	#2 Received by: (Sig) Bill Goodson	Date: 10-2-09	#3 Received by: (Sig)	Date:
Company Name: FPM Group Ltd	Time:	Company Name: Life Science Labs	Time: 1445	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank

BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: _234_ Cooler ID#: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB TMC LTM Sampler Name: Niels van Hoesel	Send Results to: Niels van Hoesel FPM Group Ltd. 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 205

Analyses requested

Field Sample ID	LocID	Date 2009	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note 1 4 oz glass jar	VOCs note 1 40 mL vial	SVOCs, PCBs, Pest., metals, mercury note 2,3 8 oz glass jar	Comments
TMCSD0101DA	TMCSW-13	10/1	1120	SE	G	N	0/0.5	5	1	3	1	Vial 1463: 5.3 gr., Vial 1464: 5.3 gr., Vial 1465: 5.4 gr.
TMCSD0201DA	TMCSW-903	10/1	1156	SE	G	N	0/0.5	5	1	3	1	Vial 1475: 5.5 gr., Vial 1476: 4.9 gr., Vial 1477: 4.9 gr.
TMCSD0301DA	TMCSW-902	10/1	1410	SE	G	N	0/0.5	5	1	3	1	Vial 1451: 5.8 gr., Vial 1452: 6.3 gr., Vial 1453: 5.1 gr.
TMCSD0401DA	RV-TMCFSS-4	10/1	1024	SE	G	N	0/0.5	5	1	3	1	Vial 1454: 4.8 gr., Vial 1455: 4.9 gr., Vial 1456: 5.0 gr.
TMCSD0501DA	RV-TMCFSS-5	10/1	0957	SE	G	N	0/0.5	5	1	3	1	Vial 1460: 4.9 gr., Vial 1462: 6.4 gr., Vial 1461: 5.7 gr.
TMCSD0601DA	TMCSW-14	10/1	1054	SE	G	N	0/0.5	5	1	3	1	Vial 1472: 5.1 gr., Vial 1474: 4.8 gr., Vial 1473: 5.0 gr.
TMCSD0701DA	RV-TMCSS-7	10/1	1138	SE	G	N	0/0.5	5	1	3	1	Vial 1478: 5.6 gr., Vial 1479: 5.0 gr., Vial 1480: 5.0 gr.
TMCSD0801DA	RV-TMCSS-8	10/1	1350	SE	G	N	0/0.5	5	1	3	1	Vial 1457: 5.1 gr., Vial 1458: 5.7 gr., Vial 1459: 6.0 gr.

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0)
Note 1: VOCs: Method SW8260 for AFCEE QAPP 4.0 List.
Note 2: SVOCs: Method SW8270 for AFCEE QAPP 4.0 List, PCBs: Method SW8082 for AFCEE QAPP 4.0 List, Pesticides: Method SW8081 for AFCEE QAPP 4.0 List.
Note 3: Metals: Method SW6010B for AFCEE QAPP 4.0 List and Mercury: Method SW7471.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 10/2/09	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 14:40	Company Name:	Time:
#1 Received by: (Sig) Niels van Hoesel	Date: 9/25/09	#2 Received by: (Sig) Bill Donaldson	Date: 10-2-09	#3 Received by: (Sig)	Date:
Company Name: FPM Group Ltd	Time: 1200	Company Name: Life Science Labs	Time: 1445	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
SE = Sediment

SMCODE
B = Bailer
G = Grab
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
SS = Split Spoon

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Daily Health and Safety Meeting Form

Date: 10/1/09 *Time :* 9:00

Location: FPM office (garage)

Weather Conditions: 40° cold cloudy

Meeting Type: Daily Health and Safety

Personnel Present:

Josh Wenck Daniel Baldyga

Visitors Present: —

Visitor Training: —

PPE Required: Modified D

Possible risks, injuries, concerns:

slip trip fall. exposure to cold water

Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):

None

Property Damage:

—

Description (include sequence of events describing step by step how incident happened):

—

Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):

—

Report made by (Name): Josh Wenck

SSHP Organization Title: Site Safety and Health Officer

Appendix B
Validated Lab Data

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSW0101FA	0910008-001A
SMCSW0401FA	0910008-002A
SMCSW0401FC	0910008-003A
SMCSW0501FA	0910008-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/19/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	1.00	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.15	1		F
Benzene	0.100	0.500	0.100	1		U
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

QA 11/9/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.100	1		U
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

cdt 11/24/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	96	76 - 119	
Toluene-d8	102	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	772235	347175 - 1388700	
Chlorobenzene-d5	1041586	415808 - 1663230	
Fluorobenzene	2961314	1176246 - 4704984	

11/21/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	6.86	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.37	1		F
Benzene	0.100	0.500	0.750	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

CVA 11/21/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.230	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.200	1		F
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

CWT 11/2/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	94	76 - 119	
Toluene-d8	102	81 - 120	

CWT 11/21/09

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	784303	347175 - 1388700	
Chlorobenzene-d5	1032018	415808 - 1663230	
Fluorobenzene	2913319	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.230	1		F
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.240	1		F
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	6.95	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.39	1		F
Benzene	0.100	0.500	0.780	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

11/21/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.230	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.230	1		F
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.110	1		F
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

CAT 11/21/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	93	76 - 119	
Toluene-d8	102	81 - 120	

CLM 11/21/09

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	778675	347175 - 1388700	
Chlorobenzene-d5	1037128	415808 - 1663230	
Fluorobenzene	2946621	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.160	1		F
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	3.97	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	3.01	1		F
Benzene	0.100	0.500	0.670	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

11/21/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.120	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

11/21/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	91	76 - 119	
Toluene-d8	100	81 - 120	

CMA 11/24/09

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	789445	347175 - 1388700	
Chlorobenzene-d5	1035964	415808 - 1663230	
Fluorobenzene	2888795	1176246 - 4704984	

Comments:

Quality Control Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/22/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution Factor	Comment	Qualifier
1,2,4-Trichlorobenzene	0.020	1.0	0.020	1		U
1,2-Dichlorobenzene	0.020	1.0	0.020	1		U
1,3-Dichlorobenzene	0.020	1.0	0.020	1		U
1,4-Dichlorobenzene	0.020	1.0	0.020	1		U
2,4,5-Trichlorophenol	0.059	4.9	0.059	1		U
2,4,6-Trichlorophenol	0.059	0.44	0.059	1		U
2,4-Dichlorophenol	0.020	0.44	0.020	1		U
2,4-Dimethylphenol	0.059	0.44	0.059	1		U
2,4-Dinitrophenol	0.98	4.9	0.98	1		U
2,4-Dinitrotoluene	0.020	1.0	0.020	1		U
2,6-Dinitrotoluene	0.020	1.0	0.020	1		U
2-Chloronaphthalene	0.020	1.0	0.020	1		U
2-Chlorophenol	0.020	0.44	0.020	1		U
2-Methylnaphthalene	0.020	1.0	0.020	1		U
2-Methylphenol	0.020	0.44	0.020	1		U
2-Nitroaniline	0.020	4.9	0.020	1		U
2-Nitrophenol	0.020	0.44	0.020	1		U
3,3'-Dichlorobenzidine	0.059	1.9	0.059	1		U
3-Nitroaniline	0.059	4.9	0.059	1		U
4,6-Dinitro-2-methylphenol	0.25	4.9	0.25	1		U
4-Bromophenyl phenyl ether	0.020	1.0	0.020	1		U
4-Chloro-3-methylphenol	0.020	1.9	0.020	1		U
4-Chloroaniline	0.020	1.9	0.020	1		U
4-Chlorophenyl phenyl ether	0.020	1.0	0.020	1		U
4-Methylphenol	0.059	3.0	0.059	1		U
4-Nitroaniline	0.020	4.9	0.020	1		U
4-Nitrophenol	0.25	2.4	0.25	1		U
Acenaphthene	0.020	1.0	0.020	1		U
Acenaphthylene	0.020	1.0	0.020	1		U
Anthracene	0.020	1.0	0.020	1		U
Benzo[a]anthracene	0.020	1.0	0.053	1		F
Benzo[a]pyrene	0.020	1.0	0.048	1		F

Comments:

CAA 11/29/09

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
Benzo[b]fluoranthene	0.020	1.0	0.12	1		F
Benzo[g,h,i]perylene	0.059	1.0	0.059	1		U
Benzo[k]fluoranthene	0.020	1.0	0.029	1		F
Benzoic acid	0.25	7.4	0.25	1		U
Benzyl alcohol	0.020	1.9	0.020	1		U
bis(2-Chloroethoxy)methane	0.020	1.0	0.020	1		U
bis(2-chloroethyl)ether	0.020	1.0	0.020	1		U
bis(2-chloroisopropyl)ether	0.020	1.0	0.020	1		U
bis(2-Ethylhexyl)phthalate	0.020	1.0	0.020	1		U
Butyl benzyl phthalate	0.020	1.0	0.020	1		U
Chrysene	0.020	1.0	0.056	1		F
Di-n-butyl phthalate	0.020	1.0	0.020	1		U
Di-n-octyl phthalate	0.020	1.0	0.020	1		U
Dibenz[a,h]anthracene	0.059	1.0	0.059	1		U
Dibenzofuran	0.020	1.0	0.020	1		U
Diethyl phthalate	0.020	1.0	0.020	1		U
Dimethyl phthalate	0.020	1.0	0.020	1		U
Fluoranthene	0.020	1.0	0.11	1		F
Fluorene	0.020	1.0	0.020	1		U
Hexachlorobenzene	0.020	1.0	0.020	1		U
Hexachlorobutadiene	0.059	1.0	0.059	1		U
Hexachloroethane	0.059	1.0	0.059	1		U
Indeno[1,2,3-cd]pyrene	0.059	1.0	0.059	1		U
Isophorone	0.020	1.0	0.020	1		U
N-Nitroso-di-n-propylamine	0.020	1.0	0.020	1		U
N-Nitrosodiphenylamine	0.020	1.0	0.020	1		U
Naphthalene	0.020	1.0	0.020	1		U
Nitrobenzene	0.020	1.0	0.020	1		U
Pentachlorophenol	0.49	4.9	0.49	1		U
Phenanthrene	0.020	1.0	0.064	1		F
Phenol	0.020	0.44	0.020	1		U
Pyrene	0.020	1.0	0.11	1		F

Comments:

CWK 11/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	97	36 - 126	
2-Fluorobiphenyl	84	43 - 120	
2-Fluorophenol	81	37 - 120	
Nitrobenzene-d5	85	37 - 120	
Phenol-d5	84	40 - 120	
Terphenyl-d14	104	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	149172	61370 - 245480	
Acenaphthene-d10	303969	121827 - 487308	
Chrysene-d12	502205	233714 - 934858	
Naphthalene-d8	544022	223871 - 895484	
Perylene-d12	423635	208094 - 832374	
Phenanthrene-d10	496441	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
1,2,4-Trichlorobenzene	0.017	0.89	0.017	1		U
1,2-Dichlorobenzene	0.017	0.89	0.017	1		U
1,3-Dichlorobenzene	0.017	0.89	0.017	1		U
1,4-Dichlorobenzene	0.017	0.89	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.38	0.051	1		U
2,4-Dichlorophenol	0.017	0.38	0.017	1		U
2,4-Dimethylphenol	0.051	0.38	0.051	1		U
2,4-Dinitrophenol	0.84	4.2	0.84	1		U
2,4-Dinitrotoluene	0.017	0.89	0.017	1		U
2,6-Dinitrotoluene	0.017	0.89	0.017	1		U
2-Chloronaphthalene	0.017	0.89	0.017	1		U
2-Chlorophenol	0.017	0.38	0.017	1		U
2-Methylnaphthalene	0.017	0.89	0.023	1		F
2-Methylphenol	0.017	0.38	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.38	0.017	1		U
3,3'-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.89	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.89	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.0	0.21	1		U
Acenaphthene	0.017	0.89	0.017	1		U
Acenaphthylene	0.017	0.89	0.017	1		U
Anthracene	0.017	0.89	0.017	1		U
Benzo[a]anthracene	0.017	0.89	0.017	1		U
Benzo[a]pyrene	0.017	0.89	0.017	1		U

Comments:

CWK 11/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Control	Qualifier
Benzo[b]fluoranthene	0.017	0.89	0.017	1		U
Benzo[g,h,i]perylene	0.051	0.89	0.051	1		U
Benzo[k]fluoranthene	0.017	0.89	0.017	1		U
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.89	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.89	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.89	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.89	0.017	1		U
Butyl benzyl phthalate	0.017	0.89	0.017	1		U
Chrysene	0.017	0.89	0.017	1		U
Di-n-butyl phthalate	0.017	0.89	0.017	1		U
Di-n-octyl phthalate	0.017	0.89	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.89	0.051	1		U
Dibenzofuran	0.017	0.89	0.017	1		U
Diethyl phthalate	0.017	0.89	0.017	1		U
Dimethyl phthalate	0.017	0.89	0.017	1		U
Fluoranthene	0.017	0.89	0.017	1		U
Fluorene	0.017	0.89	0.017	1		U
Hexachlorobenzene	0.017	0.89	0.017	1		U
Hexachlorobutadiene	0.051	0.89	0.051	1		U
Hexachloroethane	0.051	0.89	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.89	0.051	1		U
Isophorone	0.017	0.89	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.89	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.89	0.017	1		U
Naphthalene	0.017	0.89	0.045	1		F
Nitrobenzene	0.017	0.89	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.89	0.017	1		U
Phenol	0.017	0.38	0.017	1		U
Pyrene	0.017	0.89	0.017	1		U

Comments:

CM 11/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	90	36 - 126	
2-Fluorobiphenyl	88	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	83	37 - 120	
Phenol-d5	86	40 - 120	
Terphenyl-d14	102	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	123826	61370 - 245480	
Acenaphthene-d10	250187	121827 - 487308	
Chrysene-d12	435845	233714 - 934858	
Naphthalene-d8	461267	223871 - 895484	
Perylene-d12	380801	208094 - 832374	
Phenanthrene-d10	414124	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
1,2,4-Trichlorobenzene	0.017	0.90	0.017	1		U
1,2-Dichlorobenzene	0.017	0.90	0.017	1		U
1,3-Dichlorobenzene	0.017	0.90	0.017	1		U
1,4-Dichlorobenzene	0.017	0.90	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.39	0.051	1		U
2,4-Dichlorophenol	0.017	0.39	0.017	1		U
2,4-Dimethylphenol	0.051	0.39	0.051	1		U
2,4-Dinitrophenol	0.85	4.2	0.85	1		U
2,4-Dinitrotoluene	0.017	0.90	0.017	1		U
2,6-Dinitrotoluene	0.017	0.90	0.017	1		U
2-Chloronaphthalene	0.017	0.90	0.017	1		U
2-Chlorophenol	0.017	0.39	0.017	1		U
2-Methylnaphthalene	0.017	0.90	0.058	1		F
2-Methylphenol	0.017	0.39	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.39	0.017	1		U
3,3'-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.1	0.21	1		U
Acenaphthene	0.017	0.90	0.087	1		F
Acenaphthylene	0.017	0.90	0.017	1		U
Anthracene	0.017	0.90	0.15	1		F
Benzo[a]anthracene	0.017	0.90	0.63	1		F
Benzo[a]pyrene	0.017	0.90	0.68	1		F

Comments:

CWA 11/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Benzo[b]fluoranthene	0.017	0.90	1.7	1		
Benzo[g,h,i]perylene	0.051	0.90	0.24	1		F
Benzo[k]fluoranthene	0.017	0.90	0.65	1		F
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.90	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.90	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.90	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.90	0.037	1		F
Butyl benzyl phthalate	0.017	0.90	0.017	1		U
Chrysene	0.017	0.90	1.0	1		
Di-n-butyl phthalate	0.017	0.90	0.017	1		U
Di-n-octyl phthalate	0.017	0.90	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.90	0.078	1		F
Dibenzofuran	0.017	0.90	0.066	1		F
Diethyl phthalate	0.017	0.90	0.017	1		U
Dimethyl phthalate	0.017	0.90	0.017	1		U
Fluoranthene	0.017	0.90	0.79	1		F
Fluorene	0.017	0.90	0.10	1		F
Hexachlorobenzene	0.017	0.90	0.017	1		U
Hexachlorobutadiene	0.051	0.90	0.051	1		U
Hexachloroethane	0.051	0.90	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.90	0.16	1		F
Isophorone	0.017	0.90	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.90	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.90	0.017	1		U
Naphthalene	0.017	0.90	0.092	1		F
Nitrobenzene	0.017	0.90	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.90	0.74	1		F
Phenol	0.017	0.39	0.017	1		U
Pyrene	0.017	0.90	0.83	1		F

Comments:

CWT 11/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):		mg/Kg		**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	102	36 - 126	
2-Fluorobiphenyl	90	43 - 120	
2-Fluorophenol	86	37 - 120	
Nitrobenzene-d5	88	37 - 120	
Phenol-d5	89	40 - 120	
Terphenyl-d14	110	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	146379	61370 - 245480	
Acenaphthene-d10	294836	121827 - 487308	
Chrysene-d12	444253	233714 - 934858	
Naphthalene-d8	546475	223871 - 895484	
Perylene-d12	245744	208094 - 832374	
Phenanthrene-d10	491022	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Comment	Qualifier
1,2,4-Trichlorobenzene	0.017	0.90	0.017	1		U
1,2-Dichlorobenzene	0.017	0.90	0.017	1		U
1,3-Dichlorobenzene	0.017	0.90	0.017	1		U
1,4-Dichlorobenzene	0.017	0.90	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.38	0.051	1		U
2,4-Dichlorophenol	0.017	0.38	0.017	1		U
2,4-Dimethylphenol	0.051	0.38	0.051	1		U
2,4-Dinitrophenol	0.84	4.2	0.84	1		U
2,4-Dinitrotoluene	0.017	0.90	0.017	1		U
2,6-Dinitrotoluene	0.017	0.90	0.017	1		U
2-Chloronaphthalene	0.017	0.90	0.017	1		U
2-Chlorophenol	0.017	0.38	0.017	1		U
2-Methylnaphthalene	0.017	0.90	0.017	1		U
2-Methylphenol	0.017	0.38	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.38	0.017	1		U
3,3'-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.0	0.21	1		U
Acenaphthene	0.017	0.90	0.017	1		U
Acenaphthylene	0.017	0.90	0.017	1		U
Anthracene	0.017	0.90	0.017	1		U
Benzo[a]anthracene	0.017	0.90	0.017	1		U
Benzo[a]pyrene	0.017	0.90	0.017	1		U

Comments:

CWA 11/29/09

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Qualifiers	Validation
Benzo[b]fluoranthene	0.017	0.90	0.017	1		U
Benzo[g,h,i]perylene	0.051	0.90	0.051	1		U
Benzo[k]fluoranthene	0.017	0.90	0.017	1		U
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.90	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.90	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.90	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.90	0.020	1		F
Butyl benzyl phthalate	0.017	0.90	0.017	1		U
Chrysene	0.017	0.90	0.017	1		U
Di-n-butyl phthalate	0.017	0.90	0.017	1		U
Di-n-octyl phthalate	0.017	0.90	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.90	0.051	1		U
Dibenzofuran	0.017	0.90	0.017	1		U
Diethyl phthalate	0.017	0.90	0.017	1		U
Dimethyl phthalate	0.017	0.90	0.017	1		U
Fluoranthene	0.017	0.90	0.025	1		F
Fluorene	0.017	0.90	0.017	1		U
Hexachlorobenzene	0.017	0.90	0.017	1		U
Hexachlorobutadiene	0.051	0.90	0.051	1		U
Hexachloroethane	0.051	0.90	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.90	0.051	1		U
Isophorone	0.017	0.90	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.90	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.90	0.017	1		U
Naphthalene	0.017	0.90	0.017	1		U
Nitrobenzene	0.017	0.90	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.90	0.019	1		F
Phenol	0.017	0.38	0.017	1		U
Pyrene	0.017	0.90	0.027	1		F

Comments:

cwt 4/29/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	98	36 - 126	
2-Fluorobiphenyl	88	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	84	37 - 120	
Phenol-d5	89	40 - 120	
Terphenyl-d14	100	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	134132	61370 - 245480	
Acenaphthene-d10	276534	121827 - 487308	
Chrysene-d12	474382	233714 - 934858	
Naphthalene-d8	502062	223871 - 895484	
Perylene-d12	416587	208094 - 832374	
Phenanthrene-d10	461947	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/22/09 Title: Project Manager

REVISED
12/10/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101547.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00049	0.0025	0.00049	1	0.00049	U
beta-BHC	0.0012	0.0025	0.0012	1	0.0012	U
delta-BHC	0.00068	0.0025	0.00068	1	0.00068	U
gamma-BHC	0.00055	0.0025	0.00055	1	0.00055	U
alpha-Chlordane	0.00052	0.0025	0.00052	1	0.00052	U
gamma-Chlordane	0.00062	0.0025	0.00062	1	0.00062	U
4,4'-DDD	0.00052	0.0049	0.00052	1	0.00052	U
4,4'-DDE	0.00055	0.0049	0.00055	1	0.00055	U
4,4'-DDT	0.00064	0.0049	0.00064	1	0.00064	U
Aldrin	0.00059	0.0025	0.00059	1	0.00059	U
Dieldrin	0.00062	0.0049	0.00062	1	0.00062	U
Endosulfan I	0.00046	0.0025	0.00046	1	0.00046	U
Endosulfan II	0.00055	0.0049	0.00055	1	0.00055	U
Endosulfan sulfate	0.00092	0.0049	0.00092	1	0.00092	U
Endrin	0.00096	0.0049	0.00096	1	0.00096	U
Endrin aldehyde	0.00070	0.0049	0.00070	1	0.00070	U
Heptachlor	0.00076	0.0025	0.00076	1	0.00076	U
Heptachlor epoxide	0.00067	0.0025	0.00067	1	0.00067	U
Methoxychlor	0.00065	0.025	0.00065	1	0.00065	U
Toxaphene	0.0099	0.15	0.0099	1	0.0099	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	70	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

cwk 12/12/09

Comments:

REVISED
12/10/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101549.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4'-DDD	0.00045	0.0042	0.00045	1	0.00045	U
4,4'-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4'-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00090	1	0.00077	PJ
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00080	0.0042	0.00080	1	0.00080	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00058	0.0022	0.00058	1	0.00058	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0086	0.13	0.0086	1	0.0086	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	76	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

CWA
12/12/09

Comments:

SEE REVISED RESULTS

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoc\09\G101547.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00049	0.0025	0.00049	1	0.00049	UJ
beta-BHC	0.0012	0.0025	0.0012	1	0.0012	UJ
delta-BHC	0.00068	0.0025	0.00068	1	0.00068	UJ
gamma-BHC	0.00055	0.0025	0.00055	1	0.00055	UJ
alpha-Chlordane	0.00052	0.0025	0.00052	1	0.00052	UJ
gamma-Chlordane	0.00062	0.0025	0.00062	1	0.00062	UJ
4,4'-DDD	0.00052	0.0049	0.00052	1	0.00052	UJ
4,4'-DDE	0.00055	0.0049	0.00055	1	0.00055	UJ
4,4'-DDT	0.00064	0.0049	0.00064	1	0.00064	UJ
Aldrin	0.00059	0.0025	0.00059	1	0.00059	UJ
Dieldrin	0.00062	0.0049	0.00062	1	0.00062	UJ
Endosulfan I	0.00046	0.0025	0.00046	1	0.00046	UJ
Endosulfan II	0.00055	0.0049	0.00055	1	0.00055	UJ
Endosulfan sulfate	0.00092	0.0049	0.00092	1	0.00092	UJ
Endrin	0.00096	0.0049	0.00096	1	0.00096	UJ
Endrin aldehyde	0.00070	0.0049	0.00070	1	0.00070	UJ
Heptachlor	0.00076	0.0025	0.00076	1	0.00076	UJ
Heptachlor epoxide	0.00067	0.0025	0.00067	1	0.00067	UJ
Methoxychlor	0.00065	0.025	0.00065	1	0.00065	UJ
Toxaphene	0.0099	0.15	0.0099	1	0.0099	UJ

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	70	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

CWK 11/29/09

SEE REVISED RESULTS

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101547.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	72	56 - 132	
Tetrachloro-m-xylene	71	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101548.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Control	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4'-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4'-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00054	1	0.00054	U
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00079	0.0042	0.00079	1	0.00079	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00057	0.0022	0.00057	1	0.00057	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0085	0.13	0.0085	1	0.0085	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	74	56 - 132	
Tetrachloro-m-xylene	76	69 - 124	

cwt
11/29/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101548.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
4,4'-DDD	0.00045	0.0042	0.0015	1	0.00081	FJ P

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	88	56 - 132	
Tetrachloro-m-xylene	81	69 - 124	

ERS 4/29/09

Comments:

SEE REVISED RESULTS

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101849.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	UJ
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	UJ
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	UJ
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	UJ
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	UJ
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	UJ
4,4'-DDD	0.00045	0.0042	0.00045	1	0.00045	UJ
4,4'-DDE	0.00047	0.0042	0.00047	1	0.00047	UJ
4,4'-DDT	0.00055	0.0042	0.00055	1	0.00055	UJ
Aldrin	0.00051	0.0022	0.00051	1	0.00051	UJ
Dieldrin	0.00054	0.0042	0.00090	1	0.00077	~~EJ~~ F
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	UJ
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	UJ
Endosulfan sulfate	0.00080	0.0042	0.00080	1	0.00080	UJ
Endrin	0.00083	0.0042	0.00083	1	0.00083	UJ
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	UJ
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	UJ
Heptachlor epoxide	0.00058	0.0022	0.00058	1	0.00058	UJ
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	UJ
Toxaphene	0.0086	0.13	0.0086	1	0.0086	UJ

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	76	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

CWA 11/29/09

SEE REVISED RESULTS

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101549.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):		mg/Kg		**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	108	56 - 132	
Tetrachloro-m-xylene	77	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101550.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Concentration	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4'-DDD	0.00045	0.0042	0.00045	1	0.00045	U
4,4'-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4'-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00054	1	0.00054	U
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00079	0.0042	0.00079	1	0.00079	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00058	0.0022	0.00058	1	0.00058	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0086	0.13	0.0086	1	0.0086	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	109	56 - 132	
Tetrachloro-m-xylene	79	69 - 124	

11/29/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101550.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	69	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

Comments:

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/22/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101410.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00324	0.0252	0.00324	1		U
Aroclor 1221	0.00329	0.0252	0.00329	1		U
Aroclor 1232	0.00200	0.0252	0.00200	1		U
Aroclor 1242	0.00271	0.0252	0.00271	1		U
Aroclor 1248	0.00529	0.0252	0.00529	1		U
Aroclor 1254	0.00702	0.0252	0.00702	1		U
Aroclor 1260	0.00296	0.0252	0.00296	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	92	58 - 125	

dwt 11/29/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101411.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00279	0.0217	0.00279	1		U
Aroclor 1221	0.00283	0.0217	0.00283	1		U
Aroclor 1232	0.00172	0.0217	0.00172	1		U
Aroclor 1242	0.00233	0.0217	0.00233	1		U
Aroclor 1248	0.00455	0.0217	0.00455	1		U
Aroclor 1254	0.00605	0.0217	0.0727	1		
Aroclor 1260	0.00255	0.0217	0.00255	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	94	58 - 125	

EWK
11/29/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101412.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Comm'm	Qualifier
Aroclor 1016	0.00281	0.0218	0.00281	1		U
Aroclor 1221	0.00285	0.0218	0.00285	1		U
Aroclor 1232	0.00173	0.0218	0.00173	1		U
Aroclor 1242	0.00235	0.0218	0.00235	1		U
Aroclor 1248	0.00458	0.0218	0.00458	1		U
Aroclor 1254	0.00608	0.0218	0.0145	1		F
Aroclor 1260	0.00257	0.0218	0.00257	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	89	58 - 125	

CWA
11/29/09

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101413.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00280	0.0217	0.00280	1		U
Aroclor 1221	0.00284	0.0217	0.00284	1		U
Aroclor 1232	0.00173	0.0217	0.00173	1		U
Aroclor 1242	0.00234	0.0217	0.00234	1		U
Aroclor 1248	0.00457	0.0217	0.00457	1		U
Aroclor 1254	0.00606	0.0217	0.00606	1		U
Aroclor 1260	0.00256	0.0217	0.00256	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	101	58 - 125	

dwk
11/29/09

Comments:

Life Science Laboratories, Inc.

Date: *08-Oct-09*

CLIENT: FPM Group
Lab Order: 0910009
Project: Griffiss AFB - SMC LTM-Sed

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
SMCSD0101FA	0910009-001A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	32.5
SMCSD0401FA	0910009-002A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	21.6
SMCSD0401FC	0910009-003A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	22.1
SMCSD0501FA	0910009-004A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	21.8

Appendix C
Raw Lab Data

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 (315) 437-0200

Monday, October 19, 2009

Niels van Hoesel
FPM Group
153 Brooks Road
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - SMC LTM-SW
RE: Analytical Results Order No.: 0910008

Dear Niels van Hoesel:

Life Science Laboratories, Inc. received 4 sample(s) on 10/2/2009 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

Pamela J. Titus
Project Manager

Laboratory Report

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for samples from FPM, for the Griffiss AFB-SMC LTM-SW Rome, NY project.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage and custody inconsistencies. Chains of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

There were no discrepancies noted upon receipt. The temperature of the iced cooler was -1.2°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Volatile Organics	SW8260B	1

1) Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996 (including the QC requirements specified in AFCEE 4.0 + variances).

QUALITY CONTROL

QA/QC results are summarized in the Laboratory Report.

RAW DATA

The raw data is not requested for this report. Life Science Laboratories, Inc. will keep the raw data on file.

Total # of pages in this report: _____

GC/MS Volatile Organics Case Narrative

Client:	FPM
Project/Order:	Griffiss AFB – SMC LTM-SW
Work Order #:	0910008
Methodology:	8260B

Analyzed/Reviewed by (Initials/Date): JK 10/9/09

Supervisor/Reviewed by (Initials/Date): MD 10-12-09

QA/QC Review (Initials/Date): AJ for ZK 10/19/09

File Name: G:\Narratives\MSVoa\0910008msvnar.doc

GC/MS Volatile Organics
The GC/MS Volatile instruments are equipped with a Restek Rtx-VMS, 60 m x 0.25 mm ID capillary column (MS01), Restek Rtx-502.2, 105 m x 0.53 mm ID capillary column (MS02), Restek Rtx-502.2, 60 m x 0.25 mm ID capillary column (MS03) and Restek Rtx-VMS, 60 m x 0.25mm ID capillary column (MS04), and a Vocarb 3000 adsorbent trap.

There were no excursions to note. All QC results were within established control limits.

Holding Times and Sample Preservation
All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements. Samples had a pH of < 2.

Laboratory Control Sample
All spike recoveries met method and/or project specific QC criteria.

Surrogate Standards
All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards
All internal standard areas met method and/or project specific QC criteria.

Calibrations
All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks
All preparation blanks met method and/or project specific QC criteria.

Life Science Laboratories, Inc.

Date: *19-Oct-09*

CLIENT: FPM Group
Project: Griffiss AFB - SMC LTM-SW
Lab Order: 0910008

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0910008-001A	SMCSW0101FA	RV-SMCFSS-1	10/1/2009	10/2/2009
0910008-002A	SMCSW0401FA	SMCSD-13	10/1/2009	10/2/2009
0910008-003A	SMCSW0401FC	SMCSD-13	10/1/2009	10/2/2009
0910008-004A	SMCSW0501FA	SMCSD-14	10/1/2009	10/2/2009

Life Science Laboratories, Inc.

Lab Order: 0910008
Client: FPM Group
Project: Griffiss AFB - SMC LTM-SW

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0910008-001A	SMCSW0101FA	10/1/2009 3:52:00 PM	Surface Water	Volatile Organic Compounds by GC/MS			10/6/2009
0910008-002A	SMCSW0401FA	10/1/2009 3:24:00 PM		Volatile Organic Compounds by GC/MS			10/6/2009
0910008-003A	SMCSW0401FC			Volatile Organic Compounds by GC/MS			10/6/2009
0910008-004A	SMCSW0501FA	10/1/2009 2:58:00 PM		Volatile Organic Compounds by GC/MS			10/6/2009

Chain of Custody

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _233_ Cooler ID#: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB SMC LTM Sampler Name: Niels van Hoesel	Send Results to: Niels van Hoesel FPM Group Ltd. 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 205

Analyses requested

Field Sample ID	LocID	Date 2008	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note 1 40 mL Vials (HCl)	SVOCs note 2 1 L amber bottle	PCBs note 3 1 L amber bottle	Pesticides note 4 1 L amber bottle	Metals note 5 250 mL poly bottle HNO3	Comments
SMCSW0101FA	RV-SMCFSS-1	10/1	1552	WS	G	N	0/0	3	3	-	-	-	-	
SMCSW0401FA	SMCSD-13	10/1	1524	WS	G	N	0/0	3	3	-	-	-	-	
SMCSW0401FC	SMCSD-13	10/1	1524	WS	G	FD	0/0	3	3	-	-	-	-	
SMCSW0501FA	SMCSD-14	10/1	1458	WS	G	N	0/0	3	3	-	-	-	-	

Sample Condition Upon Receipt at Laboratory: Good Custody Seal INTACT Cooler temperature: -1.2°C ON ICE

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0)

Note 1: VOCs: Method SW8260 for AFCEE QAPP 4.0 List.
Note 2: SVOCs: Method SW8270 for AFCEE QAPP 4.0 List.
Note 3: PCBs: Method SW8082 for AFCEE QAPP 4.0 List.
Note 4: Pesticides: Method SW8081 for AFCEE QAPP 4.0 List
Note 5: Metals: Method SW6010B for AFCEE QAPP 4.0 List and Mercury: Method SW7470.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 10/2/09	#3 Released by: (Sig) Bill Donaldson	Date: 10-2-09
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 14:40	Company Name: Life Science Labs	Time: 1620
#1 Received by: (Sig) Niels van Hoesel	Date: 10/1/09	#2 Received by: (Sig) Bill Donaldson	Date: 10-2-09	#3 Received by: (Sig)	Date: 10/2/09
Company Name: FPM Group Ltd	Time:	Company Name: Life Science Labs	Time: 1445	Company Name: LSL	Time: 1620

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **FPM**

Date and Time Received: **10/2/2009 4:20:00 PM**

Work Order Number: **0910008**

Received by: ads

Checklist completed by: Initials  Date 10/2/09

Reviewed by: Initials  Date 10/2/09

Delivery Method: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Comments:

Corrective Action:

Client/Project FAM 0910008

Sample Control Record

Sample ID	Frac	Client Sample ID	Removed By	Date and Time Removed	Analysis	Date and Time Returned
0910008 - 001 → 004	A		JK	10/6/09 9:50	8260	NR

Analytical Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSW0101FA	0910008-001A
SMCSW0401FA	0910008-002A
SMCSW0401FC	0910008-003A
SMCSW0501FA	0910008-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/19/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	1.00	1		U
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.15	1		F
Benzene	0.100	0.500	0.100	1		U
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.100	1		U
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0101FA	**Lab Sample ID:**	0910008-001A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7565.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	96	76 - 119	
Toluene-d8	102	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	772235	347175 - 1388700	
Chlorobenzene-d5	1041586	415808 - 1663230	
Fluorobenzene	2961314	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	6.86	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.37	1		F
Benzene	0.100	0.500	0.750	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.230	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.200	1		F
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FA	**Lab Sample ID:**	0910008-002A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7566.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	104	72 - 119	
4-Bromofluorobenzene	94	76 - 119	
Toluene-d8	102	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	784303	347175 - 1388700	
Chlorobenzene-d5	1032018	415808 - 1663230	
Fluorobenzene	2913319	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.230	1		F
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.240	1		F
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	6.95	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	1.39	1		F
Benzene	0.100	0.500	0.780	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.230	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.230	1		F
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.110	1		F
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0401FC	**Lab Sample ID:**	0910008-003A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7567.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	93	76 - 119	
Toluene-d8	102	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	778675	347175 - 1388700	
Chlorobenzene-d5	1037128	415808 - 1663230	
Fluorobenzene	2946621	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.160	1		F
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	3.97	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	3.01	1		F
Benzene	0.100	0.500	0.670	1		
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.100	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		U
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.120	1		F
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	0.100	1		U
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.100	1		U
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.100	1		U
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSW0501FA	**Lab Sample ID:**	0910008-004A	**Matrix:**	Surface Water
% Solids:	0	**Initial Calibration ID:**	1629	**File ID:**	T7568.D
Date Received:	02-Oct-09	**Date Extracted:**		**Date Analyzed:**	06-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	105	72 - 119	
4-Bromofluorobenzene	91	76 - 119	
Toluene-d8	100	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	789445	347175 - 1388700	
Chlorobenzene-d5	1035964	415808 - 1663230	
Fluorobenzene	2888795	1176246 - 4704984	

Comments:

Quality Control Results

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method:	8260B	**AAB #:**	
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Date of Initial Calibration:**	15-SEP-09
Initial Calibration ID:	1629	**Concentration Units (ug/L or mg/kg):**	ug/L

SEE ATTACHED

Comments:

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T915VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.25mm x 60 m, 1.4df
Last Update : Thu Sep 17 14:40:41 2009
Response via : Continuing Calibration ICAL # 1629

Calibration Files
0.5 =T7318.D 1.0 =T7319.D 2.0 =T7320.D
10 =T7321.D 20 =T7322.D 30 =T7323.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
1)	I	Fluorobenzene	ISTD							
2)		Dichlorodifluoromet	0.314	0.336	0.334	0.414	0.427	0.438	0.388	14.95
3)	P	Chloromethane	0.293	0.319	0.315	0.360	0.370	0.380	0.347	10.98
4)	CP	Vinyl chloride	0.309	0.338	0.337	0.381	0.394	0.396	0.367	10.71
5)		Bromomethane	0.197	0.202	0.194	0.197	0.211	0.217	0.206	6.04
6)		Chloroethane	0.182	0.176	0.181	0.183	0.184	0.186	0.183	2.50
7)		Trichlorofluorometh	0.545	0.583	0.586	0.636	0.635	0.644	0.609	6.19
8)	CPM	1,1-Dichloroethene	0.216	0.234	0.236	0.250	0.259	0.281	0.252	10.56
9)		Carbon disulfide	0.685	0.775	0.789	0.774	0.758	0.804	0.764	4.97
10)		1,1,2-Trichloro-1,2	0.259	0.275	0.277	0.300	0.309	0.341	0.302	11.43
11)		Methyl iodide	0.091	0.114	0.155	0.138	0.143	0.171	0.138	19.66
12)		Acrolein		0.004	0.004	0.005	0.005	0.007	0.006	31.00 Q
13)		Methylene chloride	0.263	0.243	0.242	0.226	0.229	0.249	0.243	5.08
14)		Acetone		0.061	0.063	0.058	0.057	0.059	0.059	4.64
15)		trans-1,2-Dichloroe	0.233	0.246	0.256	0.273	0.281	0.308	0.274	11.68
16)		Methyl acetate	0.161	0.164	0.159	0.170	0.171	0.183	0.171	6.36
17)		Methyl tert-Butyl e	0.554	0.602	0.621	0.656	0.669	0.733	0.654	10.62
18)	P	1,1-Dichloroethane	0.475	0.523	0.523	0.542	0.556	0.602	0.548	8.85
19)		Acrylonitrile		0.058	0.062	0.066	0.065	0.068	0.064	6.06
20)		Vinyl acetate	0.395	0.429	0.458	0.513	0.545	0.565	0.499	14.77
21)		cis-1,2-Dichloroeth	0.251	0.275	0.279	0.294	0.304	0.332	0.297	10.89
22)		2,2-Dichloropropane	0.416	0.438	0.450	0.469	0.496	0.548	0.483	11.34
23)		Bromochloromethane	0.104	0.122	0.123	0.124	0.125	0.136	0.123	7.99
24)		Cyclohexane	0.513	0.570	0.584	0.628	0.646	0.690	0.618	10.68
25)	CP	Chloroform	0.563	0.578	0.567	0.568	0.584	0.633	0.593	6.11
26)		Carbon tetrachlorid	0.136	0.158	0.173	0.235	0.290	0.346	0.244	38.35 Q
27)		1,1,1-Trichloroetha	0.380	0.407	0.430	0.449	0.476	0.524	0.457	12.67
28)		2-Butanone		0.091	0.093	0.096	0.096	0.101	0.096	4.82
29)		1,1-Dichloropropene	0.337	0.375	0.374	0.398	0.413	0.436	0.395	9.08
30)	M	Benzene	1.116	1.176	1.163	1.168	1.183	1.233	1.177	3.08
31)	S	1,2-Dichloroethane-	0.379	0.367	0.348	0.346	0.347	0.372	0.363	4.32
32)		1,2-Dichloroethane	0.325	0.367	0.377	0.396	0.408	0.438	0.394	10.84
33)		Methylcyclohexane	0.454	0.511	0.512	0.544	0.573	0.618	0.548	11.31
34)	M	Trichloroethene	0.246	0.278	0.277	0.289	0.298	0.321	0.291	9.41
35)		Dibromomethane	0.118	0.135	0.140	0.146	0.149	0.162	0.145	11.46
36)	CP	1,2-Dichloropropane	0.249	0.277	0.281	0.288	0.296	0.317	0.289	8.27
37)		Bromodichloromethan	0.241	0.252	0.273	0.327	0.364	0.412	0.329	23.45
38)		2-Chloroethylvinyl		0.040	0.042	0.030	0.030	0.030	0.034	17.93
39)		cis-1,3-Dichloropro	0.338	0.372	0.389	0.435	0.457	0.498	0.428	14.87
40)	CPM	Toluene	0.532	0.596	0.569	0.588	0.610	0.664	0.604	8.21
41)		4-Methyl-2-pentanon		0.172	0.181	0.206	0.211	0.216	0.200	9.48
42)		trans-1,3-Dichlorop	0.276	0.310	0.326	0.375	0.400	0.434	0.366	17.30
43)		1,1,2-Trichloroetha	0.140	0.156	0.165	0.173	0.175	0.188	0.170	10.36

OK (R) 9-22-09

(#) = Out of Range ### Number of calibration levels exceeded format ###

Ursella Stallock 9/17/09

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T915VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.25mm x 60 m, 1.4df
Last Update : Thu Sep 17 14:40:41 2009
Response via : Continuing Calibration

Calibration Files
0.5 =T7318.D 1.0 =T7319.D 2.0 =T7320.D
10 =T7321.D 20 =T7322.D 30 =T7323.D

		Compound	0.5	1.0	2.0	10	20	30	Avg	%RSD
44)		2-Hexanone		0.110	0.120	0.135	0.139	0.143	0.132	10.27
45)	I	Chlorobenzene-d5	----------	ISTD	----------					
46)	S	Toluene-d8	2.567	2.554	2.413	2.338	2.377	2.451	2.437	3.80
47)		Tetrachloroethene	0.686	0.728	0.731	0.709	0.734	0.772	0.731	3.89
48)		Dibromochloromethan	0.291	0.312	0.337	0.427	0.502	0.550	0.425	26.72
49)		1,3-Dichloropropane	0.906	0.995	1.028	1.046	1.046	1.059	1.015	5.14
50)		1,2-Dibromoethane	0.424	0.455	0.504	0.508	0.511	0.529	0.491	7.68
51)		1-Chlorohexane	0.782	0.886	0.894	0.926	0.963	1.006	0.922	8.37
52)	PM	Chlorobenzene	1.585	1.762	1.737	1.756	1.820	1.912	1.780	6.13
53)	CP	Ethylbenzene	2.992	3.195	3.246	3.220	3.326	3.423	3.241	4.12
54)		1,1,1,2-Tetrachloro	0.400	0.443	0.478	0.577	0.633	0.683	0.556	20.88
55)		(m+p)-Xylene	1.012	1.116	1.141	1.223	1.289	1.362	1.213	10.69
56)		o-Xylene	0.950	1.072	1.092	1.169	1.212	1.280	1.150	10.42
57)		Styrene	1.461	1.636	1.742	1.927	2.009	2.115	1.854	13.33
58)	P	Bromoform		0.159	0.181	0.240	0.297	0.342	0.261	31.08
59)	I	1,4-Dichlorobenzene-d	----------	ISTD	----------					
60)		Isopropylbenzene	3.194	3.609	3.522	3.625	3.683	3.808	3.591	5.46
61)	S	Bromofluorobenzene	0.877	0.813	0.773	0.786	0.812	0.852	0.824	4.69
62)		Bromobenzene	0.772	0.875	0.852	0.854	0.878	0.936	0.873	6.62
63)		n-Propylbenzene	4.073	4.551	4.551	4.672	4.746	4.827	4.573	5.32
64)	P	1,1,2,2-Tetrachloro	0.616	0.667	0.701	0.715	0.720	0.753	0.701	6.61
65)		2-Chlorotoluene	2.803	3.093	3.064	3.119	3.199	3.345	3.136	5.90
66)		1,3,5-Trimethylbenz	2.639	2.930	2.957	3.163	3.257	3.417	3.109	9.08
67)		1,2,3-Trichloroprop	0.694	0.768	0.791	0.781	0.767	0.820	0.780	5.85
68)		trans-1,4-Dichloro-	0.067	0.068	0.084	0.091	0.103	0.105	0.090	19.49
69)		4-Chlorotoluene	2.431	2.742	2.700	2.721	2.778	2.862	2.723	5.17
70)		tert-Butylbenzene	2.397	2.729	2.719	2.807	2.879	3.008	2.791	7.48
71)		1,2,4-Trimethylbenz	2.536	2.795	2.895	2.983	3.029	3.168	2.935	7.46
72)		sec-Butylbenzene	3.700	4.182	4.207	4.321	4.410	4.495	4.238	6.16
73)		p-Isopropyltoluene	2.838	3.321	3.436	3.535	3.657	3.791	3.474	9.38
74)		1,3-Dichlorobenzene	1.448	1.595	1.578	1.597	1.653	1.739	1.623	6.44
75)		1,4-Dichlorobenzene	1.558	1.639	1.631	1.609	1.662	1.750	1.658	4.41
76)		n-Butylbenzene	2.732	3.038	3.139	3.206	3.255	3.385	3.159	7.07
77)		1,2-Dichlorobenzene	1.271	1.425	1.413	1.431	1.478	1.556	1.448	6.89
78)		1,2-Dibromo-3-chlor	0.079	0.076	0.076	0.089	0.094	0.103	0.089	13.85
79)		Hexachlorobutadiene	0.487	0.506	0.522	0.519	0.548	0.588	0.538	7.84
80)		1,2,4-Trichlorobenz	0.833	0.860	0.908	0.921	0.944	1.021	0.933	8.39
81)		Naphthalene	1.165	1.256	1.313	1.443	1.474	1.583	1.407	11.98
82)		1,2,3-Trichlorobenz	0.701	0.791	0.802	0.837	0.842	0.912	0.829	9.07

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T915VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.25mm x 60 m, 1.4df
Last Update : Thu Sep 17 14:53:10 2009
Response via : Continuing Calibration

Calibration Files
40 =T7324.D = =
= = =

		Compound	40
1)	I	Fluorobenzene	ISTD
2)		Dichlorodifluoromet	0.455
3)	P	Chloromethane	0.393
4)	CP	Vinyl chloride	0.415
5)		Bromomethane	0.228
6)		Chloroethane	0.191
7)		Trichlorofluorometh	0.634
8)	CPM	1,1-Dichloroethene	0.291
9)		Carbon disulfide	0.765
10)		1,1,2-Trichloro-1,2	0.351
11)		Methyl iodide	0.155
12)		Acrolein	0.008
13)		Methylene chloride	0.245
14)		Acetone	0.056
15)		trans-1,2-Dichloroe	0.320
16)		Methyl acetate	0.188
17)		Methyl tert-Butyl e	0.747
.)	P	1,1-Dichloroethane	0.615
19)		Acrylonitrile	0.068
20)		Vinyl acetate	0.591
21)		cis-1,2-Dichloroeth	0.343
22)		2,2-Dichloropropane	0.559
23)		Bromochloromethane	0.130
24)		Cyclohexane	0.693
25)	CP	Chloroform	0.655
26)		Carbon tetrachlorid	0.371
27)		1,1,1-Trichloroetha	0.535
28)		2-Butanone	0.103
29)		1,1-Dichloropropene	0.433
30)	M	Benzene	1.203
31)	S	1,2-Dichloroethane-	0.382
32)		1,2-Dichloroethane	0.449
33)		Methylcyclohexane	0.625
34)	M	Trichloroethene	0.324
35)		Dibromomethane	0.168
36)	CP	1,2-Dichloropropane	0.317
37)		Bromodichloromethan	0.433
38)		2-Chloroethylvinyl	0.029
39)		cis-1,3-Dichloropro	0.504
40)	CPM	Toluene	0.671
41)		4-Methyl-2-pentanon	0.216
42)		trans-1,3-Dichlorop	0.440
.)		1,1,2-Trichloroetha	0.190

(#) = Out of Range ### Number of calibration levels exceeded format ###

Gisella Stalloch 9/17/09

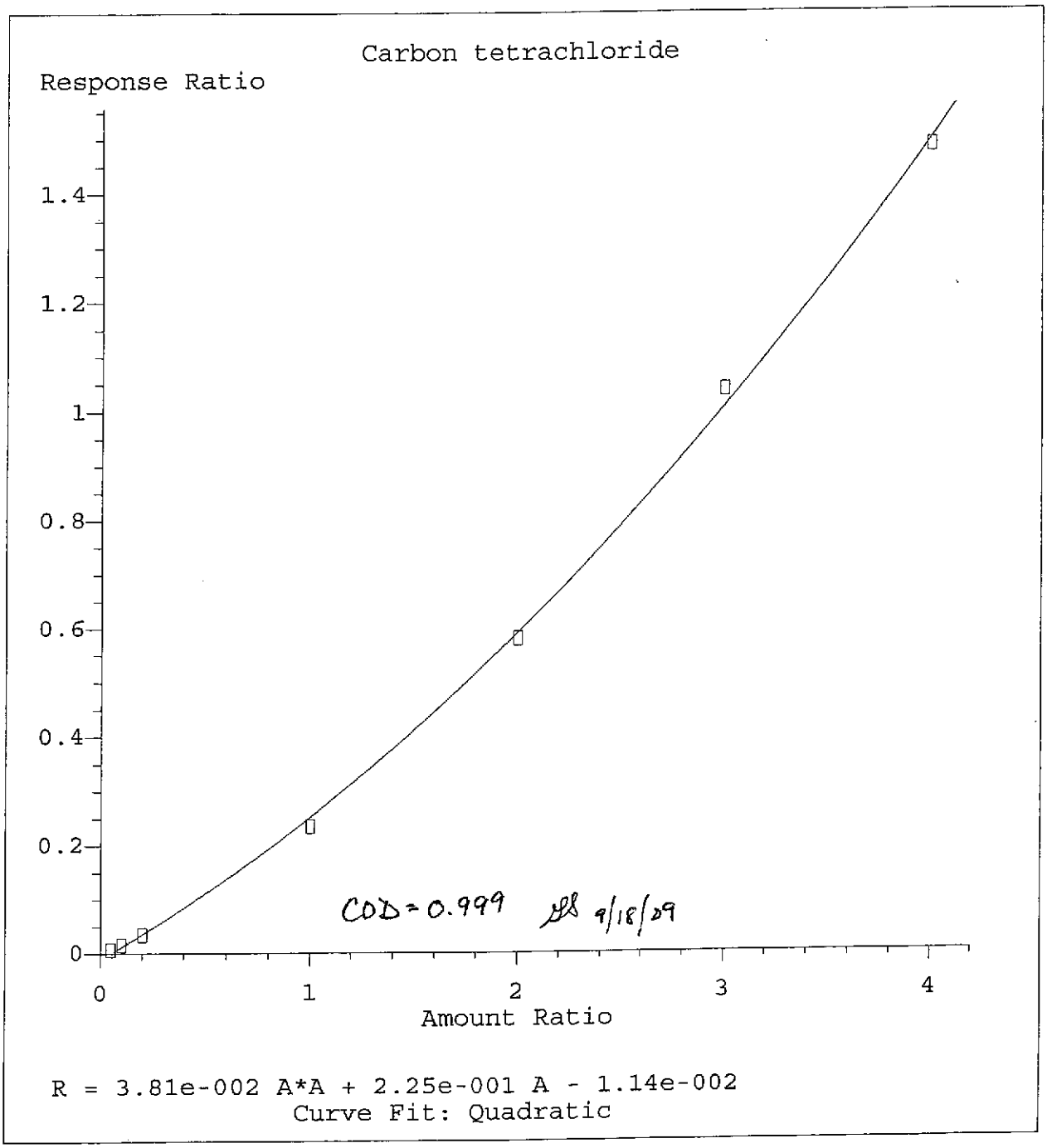
Response Factor Report #1MS11

Method : C:\HPCHEM\1\METHODS\T915VOCW.M (RTE Integrator)
Title : VOC's w/Restek Rtx-VMS, 0.25mm x 60 m, 1.4df
Last Update : Thu Sep 17 14:53:10 2009
Response via : Continuing Calibration

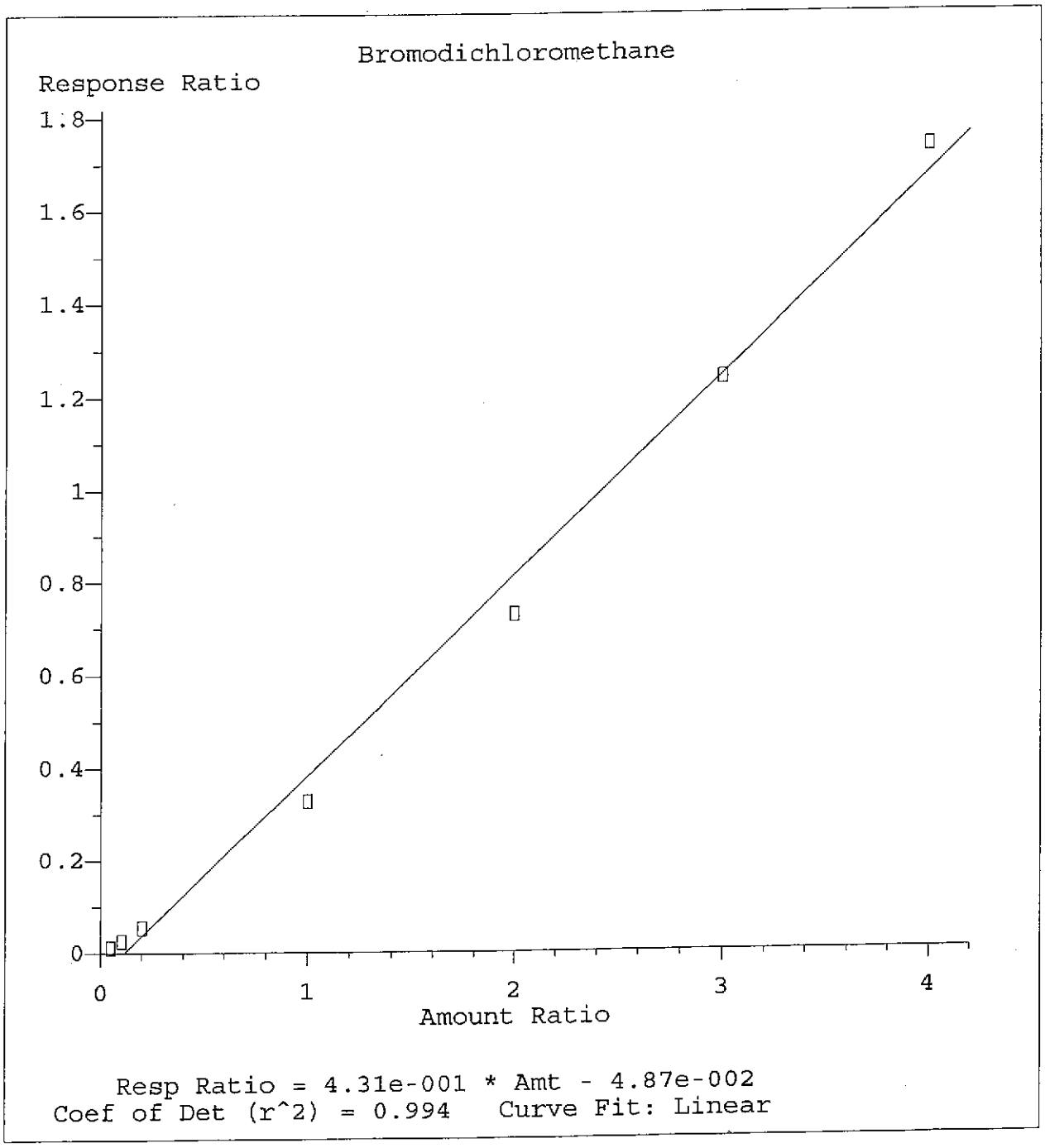
Calibration Files
40 =T7324.D = =
= = =

		Compound	40
44)		2-Hexanone	0.143
45)	I	Chlorobenzene-d5	----------ISTD----------
46)	S	Toluene-d8	2.356
47)		Tetrachloroethene	0.756
48)		Dibromochloromethan	0.558
49)		1,3-Dichloropropane	1.025
50)		1,2-Dibromoethane	0.510
51)		1-Chlorohexane	0.994
52)	PM	Chlorobenzene	1.888
53)	CP	Ethylbenzene	3.288
54)		1,1,1,2-Tetrachloro	0.680
55)		(m+p)-Xylene	1.346
56)		o-Xylene	1.275
57)		Styrene	2.087
58)	P	Bromoform	0.350
59)	I	1,4-Dichlorobenzene-d	----------ISTD----------
60)		Isopropylbenzene	3.696
61)	S	Bromofluorobenzene	0.856
62)		Bromobenzene	0.944
63)		n-Propylbenzene	4.593
64)	P	1,1,2,2-Tetrachloro	0.735
65)		2-Chlorotoluene	3.334
66)		1,3,5-Trimethylbenz	3.397
67)		1,2,3-Trichloroprop	0.836
68)		trans-1,4-Dichloro-	0.109
69)		4-Chlorotoluene	2.826
70)		tert-Butylbenzene	2.996
71)		1,2,4-Trimethylbenz	3.140
72)		sec-Butylbenzene	4.353
73)		p-Isopropyltoluene	3.737
74)		1,3-Dichlorobenzene	1.753
75)		1,4-Dichlorobenzene	1.758
76)		n-Butylbenzene	3.357
77)		1,2-Dichlorobenzene	1.566
78)		1,2-Dibromo-3-chlor	0.105
79)		Hexachlorobutadiene	0.600
80)		1,2,4-Trichlorobenz	1.045
81)		Naphthalene	1.615
82)		1,2,3-Trichlorobenz	0.921

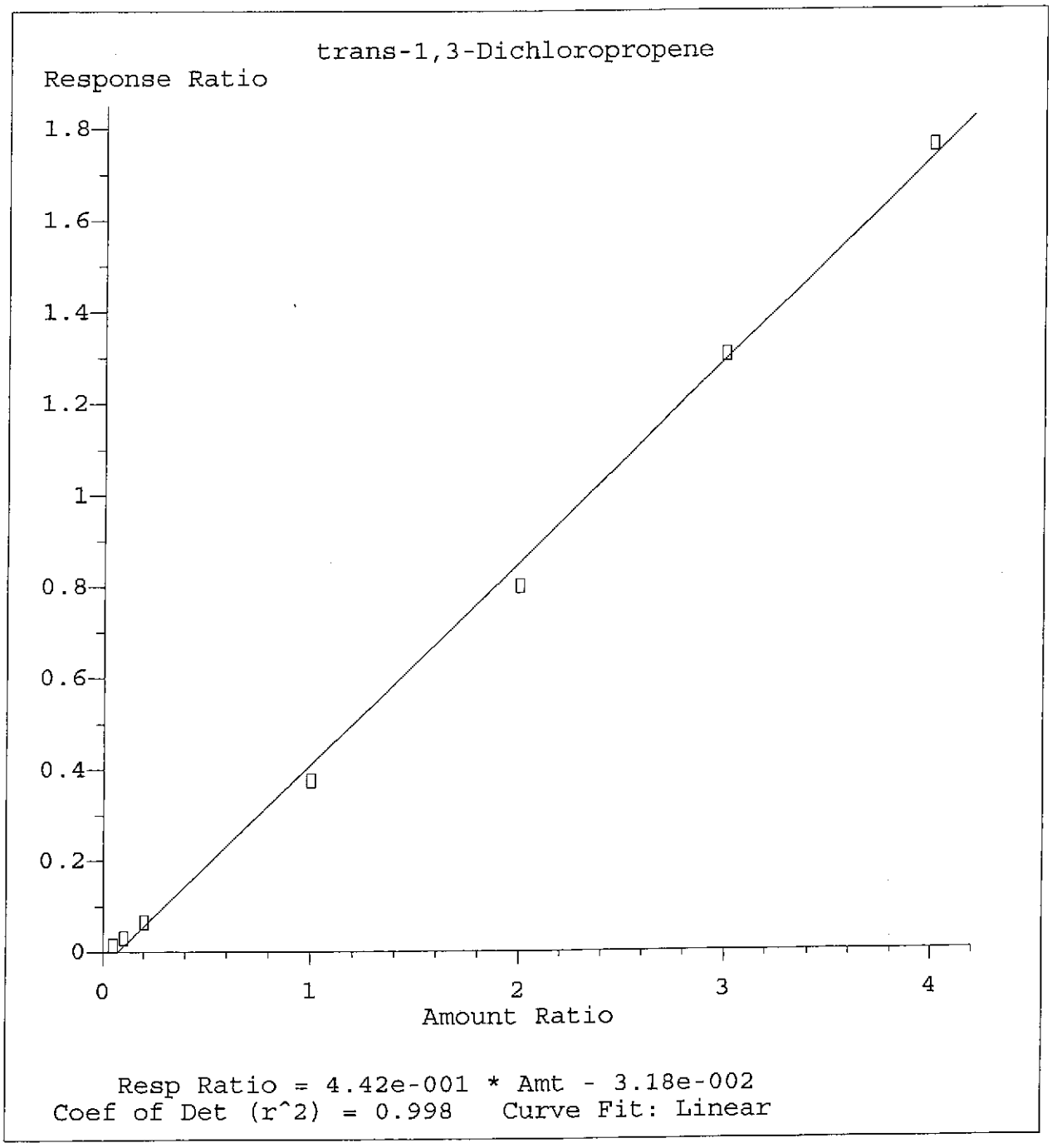
(#) = Out of Range ### Number of calibration levels exceeded format ###



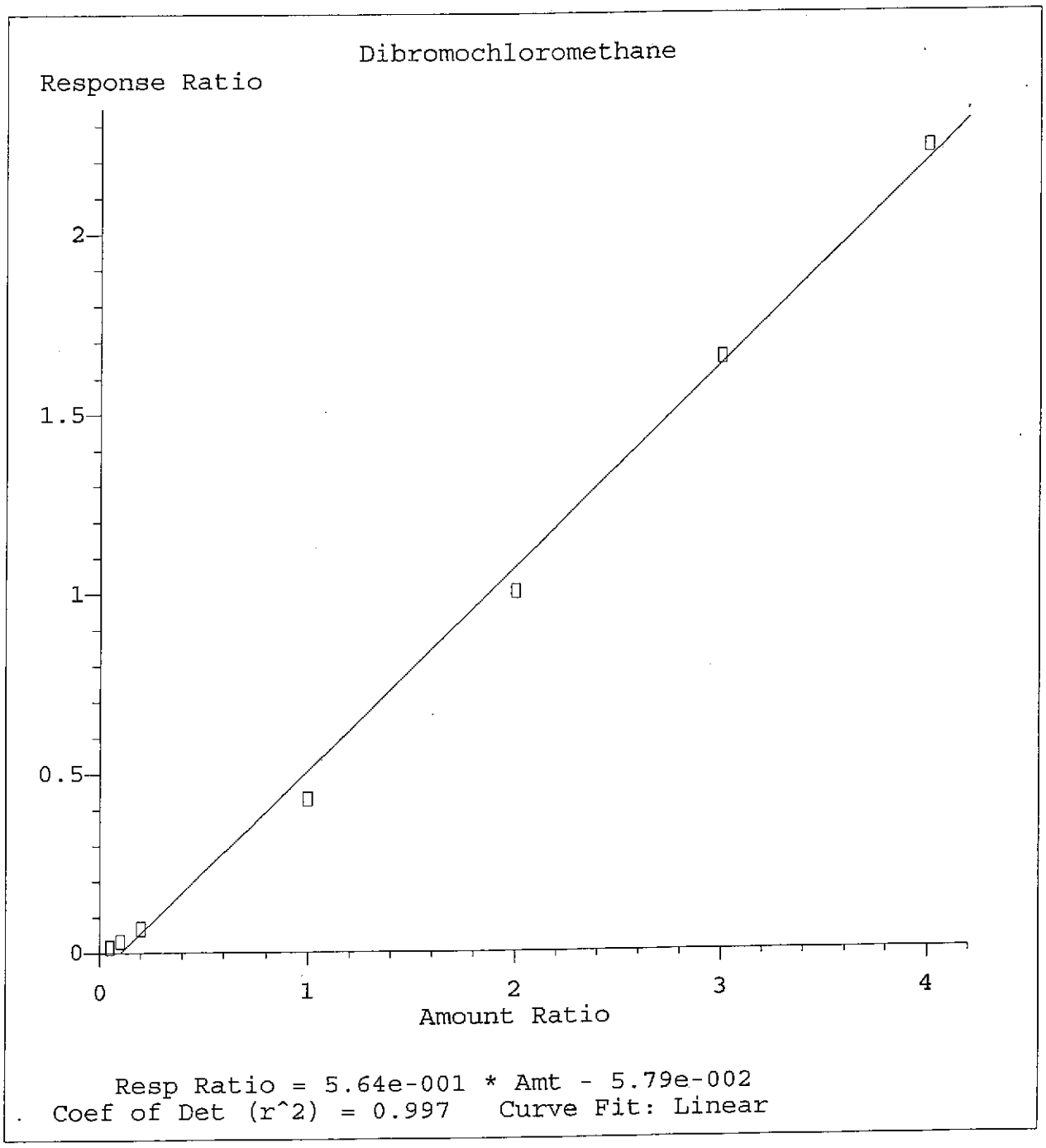
Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009



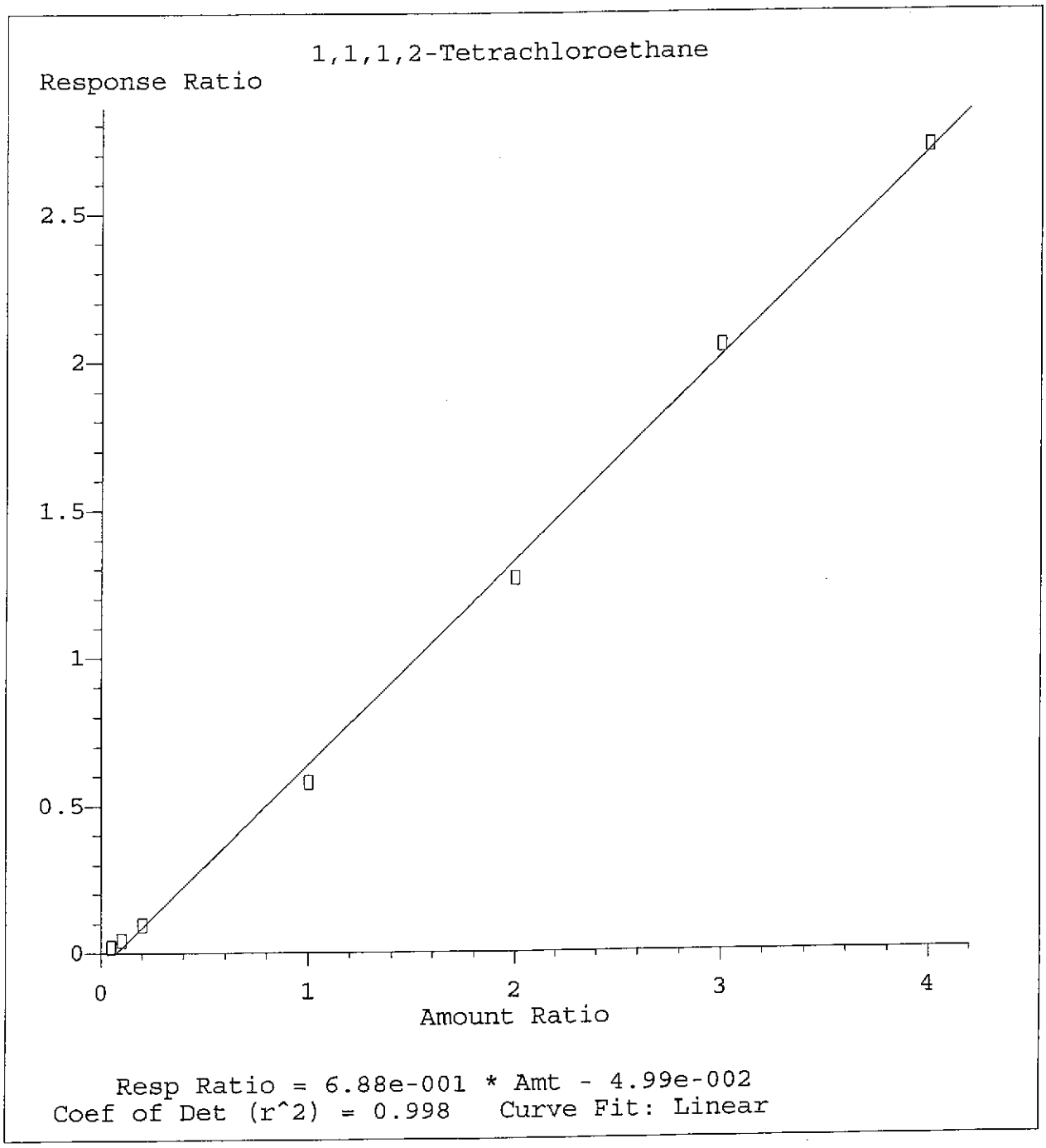
Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009



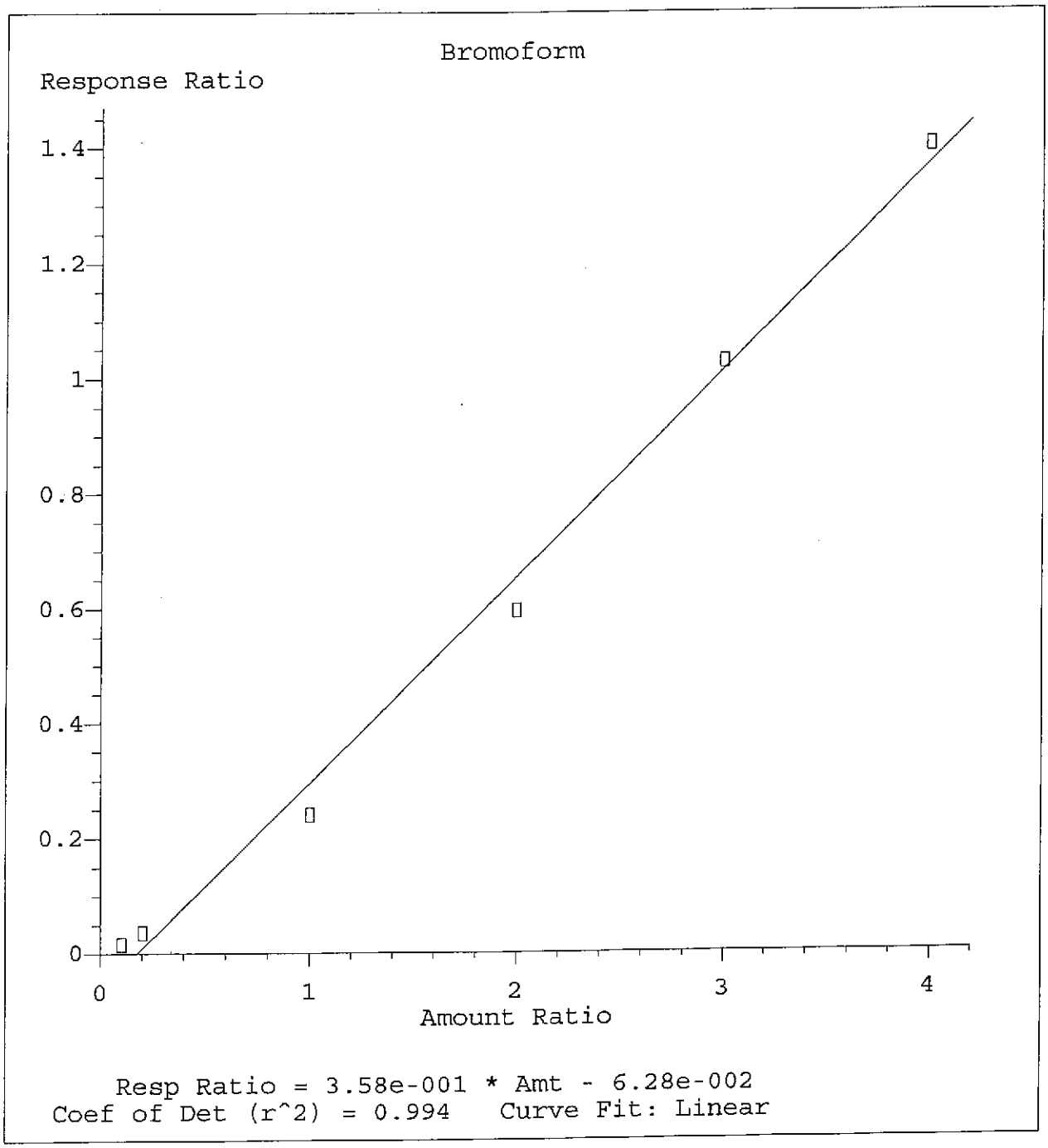
Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009



Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009



Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009



Method Name: C:\HPCHEM\1\METHODS\T915VOCW.M
Calibration Table Last Updated: Thu Sep 17 14:49:09 2009

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R18308
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS01_11	**Initial Calibration ID:**	1629
Second Source ID:	2SRC-18308	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
(m+p)-Xylene	20	19.5	-2.4	
1,1,1,2-Tetrachloroethane	10	9.05	-9.5	
1,1,1-Trichloroethane	10	9.51	-4.9	
1,1,2,2-Tetrachloroethane	10	9.51	-4.9	
1,1,2-Trichloroethane	10	9.51	-4.9	
1,1-Dichloroethane	10	9.39	-6.1	
1,1-Dichloroethene	10	9.66	-3.4	
1,1-Dichloropropene	10	9.72	-2.8	
1,2,3-Trichlorobenzene	10	9.34	-6.6	
1,2,3-Trichloropropane	10	9.52	-4.8	
1,2,4-Trichlorobenzene	10	9.2	-8.0	
1,2,4-Trimethylbenzene	10	9.75	-2.5	
1,2-Dibromo-3-chloropropane	10	9.97	-0.3	
1,2-Dibromoethane	10	9.78	-2.2	
1,2-Dichlorobenzene	10	9.62	-3.8	
1,2-Dichloroethane	10	9.27	-7.3	
1,2-Dichloropropane	10	9.35	-6.5	
1,3,5-Trimethylbenzene	10	9.78	-2.2	
1,3-Dichlorobenzene	10	9.52	-4.8	
1,3-Dichloropropane	10	9.71	-2.9	
1,4-Dichlorobenzene	10	9.4	-6.0	
1-Chlorohexane	10	9.99	-0.1	
2,2-Dichloropropane	10	9.45	-5.5	
2-Butanone	20	18.4	-8.0	
2-Chlorotoluene	10	9.62	-3.8	
4-Chlorotoluene	10	9.71	-2.9	
4-Methyl-2-pentanone	20	17.9	-10.7	
Acetone	20	19.5	-2.3	
Benzene	10	9.56	-4.4	
Bromobenzene	10	9.53	-4.7	
Bromochloromethane	10	9.57	-4.3	
Bromodichloromethane	10	8.55	-14.5	
Bromoform	10	8.87	-11.3	
Bromomethane	10	10.3	3.0	
Carbon tetrachloride	10	9.69	-3.1	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8260B	**AAB #:**	R18308
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS01_11	**Initial Calibration ID:**	1629
Second Source ID:	2SRC-18308	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Chlorobenzene	10	9.49	-5.1	
Chloroethane	10	10.3	3.1	
Chloroform	10	9	-10	
Chloromethane	10	11.1	11.1	
cis-1,2-Dichloroethene	10	9.35	-6.5	
cis-1,3-Dichloropropene	10	9.69	-3.1	
Dibromochloromethane	10	9.02	-9.8	
Dibromomethane	10	9.26	-7.4	
Dichlorodifluoromethane	10	11.6	16.0	
Ethylbenzene	10	9.64	-3.6	
Hexachlorobutadiene	10	9.39	-6.1	
Isopropylbenzene	10	9.82	-1.8	
Methyl tert-butyl ether	10	9.78	-2.2	
Methylene chloride	10	8.93	-10.7	
n-Butylbenzene	10	9.67	-3.3	
n-Propylbenzene	10	9.94	-0.6	
Naphthalene	10	9.15	-8.5	
o-Xylene	10	9.79	-2.1	
p-Isopropyltoluene	10	9.84	-1.6	
sec-Butylbenzene	10	9.82	-1.8	
Styrene	10	9.94	-0.6	
tert-Butylbenzene	10	9.67	-3.3	
Tetrachloroethene	10	9.45	-5.5	
Toluene	10	9.38	-6.2	
trans-1,2-Dichloroethene	10	9.59	-4.1	
trans-1,3-Dichloropropene	10	8.87	-11.3	
Trichloroethene	10	9.47	-5.3	
Trichlorofluoromethane	10	10.6	5.7	
Vinyl chloride	10	10.9	9.2	
Xylenes (total)	30	29.3	-2.3	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5A
CALIBRATION VERIFICATION - GC/MS ANALYSIS

Analytical Method: SW8260B **AAB #:** MS01_11_091006

Lab Name: Life Science Laboratories, In **Contract Number:**

Instrument ID: MS01_11 **Initial Calibration ID:** 1629

ICV ID: **CCV #1 ID:** CCV-18463 **CCV #2 ID:**

Analyte	ICV		CCV #1		CCV #2		
	RF	%D	RF	%D	RF	%D	Q
1,1,2,2-Tetrachloroethane *			0.794	13.3			
1,1-Dichloroethane *			0.585	6.8			
Bromoform *			0.259	-10.2			
Chlorobenzene *			1.784	0.2			
Chloromethane *			0.36	3.7			
1,1-Dichloroethene #				-7.9			
1,2-Dichloropropane #				8.0			
Chloroform #				5.2			
Ethylbenzene #				1.7			
Toluene #				2.0			
Vinyl chloride #				1.4			
(m+p)-Xylene				-0.1			
1,1,1,2-Tetrachloroethane				-7.4			
1,1,1-Trichloroethane				1.3			
1,1,2-Trichloroethane				12.4			
1,1-Dichloropropene				1.0			
1,2,3-Trichlorobenzene				-0.2			
1,2,3-Trichloropropane				8.7			
1,2,4-Trichlorobenzene				-3.9			
1,2,4-Trimethylbenzene				2.7			
1,2-Dibromo-3-chloropropane				7.9			
1,2-Dibromoethane				-1.0			
1,2-Dichlorobenzene				3.9			
1,2-Dichloroethane				11.2			
1,2-Dichloroethane-d4				4.4			
1,3,5-Trimethylbenzene				3.3			
1,3-Dichlorobenzene				2.6			
1,3-Dichloropropane				4.7			
1,4-Dichlorobenzene				2.4			
1-Chlorohexane				-4.0			
2,2-Dichloropropane				1.5			
2-Butanone				3.1			
2-Chlorotoluene				6.0			

* SPCCs # CCCS

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5A
CALIBRATION VERIFICATION - GC/MS ANALYSIS

Analytical Method: SW8260B **AAB #:** MS01_11_091006

Lab Name: Life Science Laboratories, In **Contract Number:**

Instrument ID: MS01_11 **Initial Calibration ID:** 1629

ICV ID: **CCV #1 ID:** CCV-18463 **CCV #2 ID:**

Analyte	ICV		CCV #1		CCV #2		
	RF	%D	RF	%D	RF	%D	Q
4-Bromofluorobenzene				-8.5			
4-Chlorotoluene				4.4			
4-Methyl-2-pentanone				6.0			
Acetone				18.6			
Benzene				4.0			
Bromobenzene				1.0			
Bromochloromethane				4.9			
Bromodichloromethane				-5.3			
Bromomethane				-16.4			
Carbon tetrachloride				13.5			
Chloroethane				17.5			
cis-1,2-Dichloroethene				-0.7			
cis-1,3-Dichloropropene				1.6			
Dibromochloromethane				-12.4			
Dibromomethane				3.4			
Dichlorodifluoromethane				8.8			
Hexachlorobutadiene				4.1			
Isopropylbenzene				0.7			
Methyl tert-butyl ether				-1.7			
Methylene chloride				2.1			
n-Butylbenzene				1.9			
n-Propylbenzene				7.1			
Naphthalene				-3.5			
o-Xylene				-0.9			
p-Isopropyltoluene				2.3			
sec-Butylbenzene				6.8			
Styrene				2.0			
tert-Butylbenzene				2.4			
Tetrachloroethene				-6.7			
Toluene-d8				-5.9			
trans-1,2-Dichloroethene				-6.2			
trans-1,3-Dichloropropene				-1.4			
Trichloroethene				3.1			

* SPCCs # CCCS

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5A
CALIBRATION VERIFICATION - GC/MS ANALYSIS

Analytical Method:	SW8260B	**AAB #:**	MS01_11_091006
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS01_11	**Initial Calibration ID:**	1629

ICV ID: **CCV #1 ID:** CCV-18463 **CCV #2 ID:**

Analyte	ICV		CCV #1		CCV #2		
	RF	%D	RF	%D	RF	%D	Q
Trichlorofluoromethane				-0.5			
Xylenes (total)				-0.3			

* SPCCs # CCCS

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-18463
Initial Calibration ID:	1629	**File ID:**	T7553.D

Analyte	Method Blank	RL	Q
(m+p)-Xylene	0.200	2.00	U
1,1,1,2-Tetrachloroethane	0.160	0.500	U
1,1,1-Trichloroethane	0.100	1.00	U
1,1,2,2-Tetrachloroethane	0.100	0.500	U
1,1,2-Trichloroethane	0.160	1.00	U
1,1-Dichloroethane	0.100	1.00	U
1,1-Dichloroethene	0.160	1.00	U
1,1-Dichloropropene	0.100	1.00	U
1,2,3-Trichlorobenzene	0.100	1.00	U
1,2,3-Trichloropropane	0.330	2.00	U
1,2,4-Trichlorobenzene	0.100	1.00	U
1,2,4-Trimethylbenzene	0.100	1.00	U
1,2-Dibromo-3-chloropropane	1.00	5.00	U
1,2-Dibromoethane	0.160	1.00	U
1,2-Dichlorobenzene	0.100	1.00	U
1,2-Dichloroethane	0.160	0.500	U
1,2-Dichloropropane	0.160	1.00	U
1,3,5-Trimethylbenzene	0.100	1.00	U
1,3-Dichlorobenzene	0.100	1.00	U
1,3-Dichloropropane	0.100	0.500	U
1,4-Dichlorobenzene	0.160	0.500	U
1-Chlorohexane	0.160	1.00	U
2,2-Dichloropropane	0.330	1.00	U
2-Butanone	1.00	10.0	U
2-Chlorotoluene	0.100	1.00	U
4-Chlorotoluene	0.100	1.00	U
4-Methyl-2-pentanone	1.00	10.0	U
Acetone	1.00	10.0	U
Benzene	0.100	0.500	U
Bromobenzene	0.100	1.00	U
Bromochloromethane	0.100	1.00	U
Bromodichloromethane	0.100	0.500	U
Bromoform	0.330	1.00	U
Bromomethane	0.330	3.00	U
Carbon tetrachloride	0.100	1.00	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	ug/L	**Method Blank ID:**	MB-18463
Initial Calibration ID:	1629	**File ID:**	T7553.D

Analyte	Method Blank	RL	Q
Chlorobenzene	0.100	0.500	U
Chloroethane	0.330	1.00	U
Chloroform	0.110	0.500	F
Chloromethane	0.330	1.00	U
cis-1,2-Dichloroethene	0.100	1.00	U
cis-1,3-Dichloropropene	0.160	0.500	U
Dibromochloromethane	0.100	0.500	U
Dibromomethane	0.160	1.00	U
Dichlorodifluoromethane	0.100	1.00	U
Ethylbenzene	0.100	1.00	U
Hexachlorobutadiene	0.100	1.00	U
Isopropylbenzene	0.100	1.00	U
Methyl tert-butyl ether	0.160	5.00	U
Methylene chloride	0.160	1.00	U
n-Butylbenzene	0.100	1.00	U
n-Propylbenzene	0.100	1.00	U
Naphthalene	0.100	1.00	U
o-Xylene	0.100	1.00	U
p-Isopropyltoluene	0.160	1.00	U
sec-Butylbenzene	0.160	1.00	U
Styrene	0.100	1.00	U
tert-Butylbenzene	0.100	1.00	U
Tetrachloroethene	0.100	1.00	U
Toluene	0.100	1.00	U
trans-1,2-Dichloroethene	0.100	1.00	U
trans-1,3-Dichloropropene	0.160	1.00	U
Trichloroethene	0.100	1.00	U
Trichlorofluoromethane	0.100	1.00	U
Vinyl chloride	0.330	1.00	U
Xylenes (total)	0.300	2.00	U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	100	72 - 119	
4-Bromofluorobenzene	96	76 - 119	
Toluene-d8	102	81 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8260B	**AAB #:**	R18463
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	µg/L	**Method Blank ID:**	MB-18463
Initial Calibration ID:	1629	**File ID:**	T7553.D

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	879413	347175 - 1388700	
Chlorobenzene-d5	1190092	415808 - 1663230	
Fluorobenzene	3368756	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-18463 **Initial Calibration ID:** 1629

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T7550.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	19.1	95	76 - 128	
1,1,1,2-Tetrachloroethane	10	8.99	90	81 - 129	
1,1,1-Trichloroethane	10	9.88	99	67 - 132	
1,1,2,2-Tetrachloroethane	10	10.6	106	63 - 128	
1,1,2-Trichloroethane	10	10.5	105	75 - 125	
1,1-Dichloroethane	10	10.4	104	69 - 133	
1,1-Dichloroethene	10	9.32	93	68 - 130	
1,1-Dichloropropene	10	9.79	98	73 - 132	
1,2,3-Trichlorobenzene	10	9.39	94	67 - 137	
1,2,3-Trichloropropane	10	11.0	110	73 - 124	
1,2,4-Trichlorobenzene	10	9.16	92	66 - 134	
1,2,4-Trimethylbenzene	10	9.96	100	74 - 132	
1,2-Dibromo-3-chloropropane	10	10.8	108	50 - 132	
1,2-Dibromoethane	10	9.48	95	80 - 121	
1,2-Dichlorobenzene	10	10.2	102	71 - 122	
1,2-Dichloroethane	10	10.6	106	69 - 132	
1,2-Dichloropropane	10	10.2	102	75 - 125	
1,3,5-Trimethylbenzene	10	10.0	100	74 - 131	
1,3-Dichlorobenzene	10	9.92	99	75 - 124	
1,3-Dichloropropane	10	9.86	99	73 - 126	
1,4-Dichlorobenzene	10	9.86	99	74 - 123	
1-Chlorohexane	10	9.38	94	70 - 125	
2,2-Dichloropropane	10	9.84	98	69 - 137	
2-Butanone	20	21.3	107	49 - 136	
2-Chlorotoluene	10	10.2	102	73 - 126	
4-Chlorotoluene	10	10.2	102	74 - 128	
4-Methyl-2-pentanone	20	20.2	101	58 - 134	
Acetone	20	26.1	131	40 - 135	
Benzene	10	9.93	99	81 - 122	
Bromobenzene	10	9.68	97	76 - 124	
Bromochloromethane	10	10.2	102	65 - 129	
Bromodichloromethane	10	9.40	94	76 - 121	
Bromoform	10	9.01	90	69 - 128	
Bromomethane	10	8.44	84	30 - 141	
Carbon tetrachloride	10	11.9	119	66 - 138	
Chlorobenzene	10	9.41	94	81 - 122	
Chloroethane	10	11.6	116	58 - 133	
Chloroform	10	10.1	101	69 - 128	
Chloromethane	10	10.9	109	56 - 131	
cis-1,2-Dichloroethene	10	9.58	96	72 - 126	
cis-1,3-Dichloropropene	10	9.87	99	69 - 131	
Dibromochloromethane	10	8.81	88	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-18463 **Initial Calibration ID:** 1629

Concentration Units (mg/L or mg/kg): ug/L **File ID:** T7550.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	10.0	100	76 - 125	
Dichlorodifluoromethane	10	11.5	115	30 - 153	
Ethylbenzene	10	9.71	97	73 - 127	
Hexachlorobutadiene	10	9.93	99	67 - 131	
Isopropylbenzene	10	9.90	99	75 - 127	
Methyl tert-butyl ether	10	10.1	101	65 - 123	
Methylene chloride	10	10.5	105	63 - 137	
n-Butylbenzene	10	9.78	98	69 - 137	
n-Propylbenzene	10	10.4	104	72 - 129	
Naphthalene	10	8.65	86	54 - 138	
o-Xylene	10	9.51	95	80 - 121	
p-Isopropyltoluene	10	9.98	100	73 - 130	
sec-Butylbenzene	10	10.3	103	72 - 127	
Styrene	10	9.70	97	65 - 134	
tert-Butylbenzene	10	9.84	98	70 - 129	
Tetrachloroethene	10	8.83	88	66 - 128	
Toluene	10	9.66	97	77 - 122	
trans-1,2-Dichloroethene	10	9.39	94	63 - 137	
trans-1,3-Dichloropropene	10	9.48	95	59 - 135	
Trichloroethene	10	9.87	99	70 - 127	
Trichlorofluoromethane	10	10.4	104	57 - 129	
Vinyl chloride	10	10.6	106	50 - 134	
Xylenes (total)	30	28.6	95	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	102	72 - 119	
4-Bromofluorobenzene	91	76 - 119	
Toluene-d8	92	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1112507	347175 - 1388700	
Chlorobenzene-d5	1343572	415808 - 1663230	
Fluorobenzene	3588577	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-18463 **Initial Calibration ID:** 1629

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T7551.D

Analyte	Expected	Found	%R	Control Limits	Q
(m+p)-Xylene	20	18.8	94	76 - 128	
1,1,1,2-Tetrachloroethane	10	9.17	92	81 - 129	
1,1,1-Trichloroethane	10	9.97	100	67 - 132	
1,1,2,2-Tetrachloroethane	10	10.7	107	63 - 128	
1,1,2-Trichloroethane	10	10.4	104	75 - 125	
1,1-Dichloroethane	10	10.2	102	69 - 133	
1,1-Dichloroethene	10	9.10	91	68 - 130	
1,1-Dichloropropene	10	9.87	99	73 - 132	
1,2,3-Trichlorobenzene	10	9.30	93	67 - 137	
1,2,3-Trichloropropane	10	10.6	106	73 - 124	
1,2,4-Trichlorobenzene	10	8.90	89	66 - 134	
1,2,4-Trimethylbenzene	10	9.66	97	74 - 132	
1,2-Dibromo-3-chloropropane	10	10.8	108	50 - 132	
1,2-Dibromoethane	10	9.58	96	80 - 121	
1,2-Dichlorobenzene	10	9.84	98	71 - 122	
1,2-Dichloroethane	10	10.6	106	69 - 132	
1,2-Dichloropropane	10	10.4	104	75 - 125	
1,3,5-Trimethylbenzene	10	9.79	98	74 - 131	
1,3-Dichlorobenzene	10	9.72	97	75 - 124	
1,3-Dichloropropane	10	10.1	101	73 - 126	
1,4-Dichlorobenzene	10	9.68	97	74 - 123	
1-Chlorohexane	10	9.45	94	70 - 125	
2,2-Dichloropropane	10	9.89	99	69 - 137	
2-Butanone	20	21.5	108	49 - 136	
2-Chlorotoluene	10	10.0	100	73 - 126	
4-Chlorotoluene	10	9.92	99	74 - 128	
4-Methyl-2-pentanone	20	20.4	102	58 - 134	
Acetone	20	25.2	126	40 - 135	
Benzene	10	9.86	99	81 - 122	
Bromobenzene	10	9.45	94	76 - 124	
Bromochloromethane	10	9.82	98	65 - 129	
Bromodichloromethane	10	9.58	96	76 - 121	
Bromoform	10	9.19	92	69 - 128	
Bromomethane	10	9.27	93	30 - 141	
Carbon tetrachloride	10	12.3	123	66 - 138	
Chlorobenzene	10	9.38	94	81 - 122	
Chloroethane	10	11.0	110	58 - 133	
Chloroform	10	9.88	99	69 - 128	
Chloromethane	10	10.3	103	56 - 131	
cis-1,2-Dichloroethene	10	9.54	95	72 - 126	
cis-1,3-Dichloropropene	10	10.0	100	69 - 131	
Dibromochloromethane	10	9.21	92	66 - 133	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-18463 **Initial Calibration ID:** 1629

Concentration Units (mg/L or mg/kg): µg/L **File ID:** T7551.D

Analyte	Expected	Found	%R	Control Limits	Q
Dibromomethane	10	9.96	100	76 - 125	
Dichlorodifluoromethane	10	11.0	110	30 - 153	
Ethylbenzene	10	9.57	96	73 - 127	
Hexachlorobutadiene	10	9.61	96	67 - 131	
Isopropylbenzene	10	9.74	97	75 - 127	
Methyl tert-butyl ether	10	10.3	103	65 - 123	
Methylene chloride	10	9.73	97	63 - 137	
n-Butylbenzene	10	9.65	97	69 - 137	
n-Propylbenzene	10	10.2	102	72 - 129	
Naphthalene	10	9.02	90	54 - 138	
o-Xylene	10	9.39	94	80 - 121	
p-Isopropyltoluene	10	9.72	97	73 - 130	
sec-Butylbenzene	10	10.1	101	72 - 127	
Styrene	10	9.57	96	65 - 134	
tert-Butylbenzene	10	9.71	97	70 - 129	
Tetrachloroethene	10	8.90	89	66 - 128	
Toluene	10	9.71	97	77 - 122	
trans-1,2-Dichloroethene	10	9.17	92	63 - 137	
trans-1,3-Dichloropropene	10	9.45	94	59 - 135	
Trichloroethene	10	9.84	98	70 - 127	
Trichlorofluoromethane	10	9.69	97	57 - 129	
Vinyl chloride	10	10.2	102	50 - 134	
Xylenes (total)	30	28.2	94	80 - 121	

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	101	72 - 119	
4-Bromofluorobenzene	91	76 - 119	
Toluene-d8	94	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	1121220	347175 - 1388700	
Chlorobenzene-d5	1367015	415808 - 1663230	
Fluorobenzene	3705703	1176246 - 4704984	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-18463 **MS ID:** LCS-18463 **MSD ID:** LCSD-18463

Calibration ID: 1629

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
(m+p)-Xylene		20.0	19.1	95	18.8	94	1	76 - 128	20	
1,1,1,2-Tetrachloroethane		10.0	8.99	90	9.17	92	2	81 - 129	20	
1,1,1-Trichloroethane		10.0	9.88	99	9.97	100	1	67 - 132	20	
1,1,2,2-Tetrachloroethane		10.0	10.6	106	10.7	107	1	63 - 128	20	
1,1,2-Trichloroethane		10.0	10.5	105	10.4	104	0	75 - 125	20	
1,1-Dichloroethane		10.0	10.4	104	10.2	102	2	69 - 133	20	
1,1-Dichloroethene		10.0	9.32	93	9.10	91	2	68 - 130	20	
1,1-Dichloropropene		10.0	9.79	98	9.87	99	1	73 - 132	20	
1,2,3-Trichlorobenzene		10.0	9.39	94	9.30	93	1	67 - 137	20	
1,2,3-Trichloropropane		10.0	11.0	110	10.6	106	4	73 - 124	20	
1,2,4-Trichlorobenzene		10.0	9.16	92	8.90	89	3	66 - 134	20	
1,2,4-Trimethylbenzene		10.0	9.96	100	9.66	97	3	74 - 132	20	
1,2-Dibromo-3-chloropropane		10.0	10.8	108	10.8	108	0	50 - 132	20	
1,2-Dibromoethane		10.0	9.48	95	9.58	96	1	80 - 121	20	
1,2-Dichlorobenzene		10.0	10.2	102	9.84	98	3	71 - 122	20	
1,2-Dichloroethane		10.0	10.6	106	10.6	106	0	69 - 132	20	
1,2-Dichloropropane		10.0	10.2	102	10.4	104	1	75 - 125	20	
1,3,5-Trimethylbenzene		10.0	10.0	100	9.79	98	2	74 - 131	20	
1,3-Dichlorobenzene		10.0	9.92	99	9.72	97	2	75 - 124	20	
1,3-Dichloropropane		10.0	9.86	99	10.1	101	3	73 - 126	20	
1,4-Dichlorobenzene		10.0	9.86	99	9.68	97	2	74 - 123	20	
1-Chlorohexane		10.0	9.38	94	9.45	94	1	70 - 125	20	
2,2-Dichloropropane		10.0	9.84	98	9.89	99	1	69 - 137	20	
2-Butanone		20.0	21.3	107	21.5	108	1	49 - 136	20	
2-Chlorotoluene		10.0	10.2	102	10.0	100	2	73 - 126	20	
4-Chlorotoluene		10.0	10.2	102	9.92	99	2	74 - 128	20	
4-Methyl-2-pentanone		20.0	20.2	101	20.4	102	1	58 - 134	20	
Acetone		20.0	26.1	131	25.2	126	4	40 - 135	20	
Benzene		10.0	9.93	99	9.86	99	1	81 - 122	20	
Bromobenzene		10.0	9.68	97	9.45	94	2	76 - 124	20	
Bromochloromethane		10.0	10.2	102	9.82	98	4	65 - 129	20	
Bromodichloromethane		10.0	9.40	94	9.58	96	2	76 - 121	20	
Bromoform		10.0	9.01	90	9.19	92	2	69 - 128	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): µg/L **% Solids:** 0

Parent Field Sample ID: LCSD-18463 **MS ID:** LCS-18463 **MSD ID:** LCSD-18463

Calibration ID: 1629

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Bromomethane		10.0	8.44	84	9.27	93	9	30 - 141	20	
Carbon tetrachloride		10.0	11.9	119	12.3	123	3	66 - 138	20	
Chlorobenzene		10.0	9.41	94	9.38	94	0	81 - 122	20	
Chloroethane		10.0	11.6	116	11.0	110	5	58 - 133	20	
Chloroform		10.0	10.1	101	9.88	99	2	69 - 128	20	
Chloromethane		10.0	10.9	109	10.3	103	5	56 - 131	20	
cis-1,2-Dichloroethene		10.0	9.58	96	9.54	95	0	72 - 126	20	
cis-1,3-Dichloropropene		10.0	9.87	99	10.0	100	1	69 - 131	20	
Dibromochloromethane		10.0	8.81	88	9.21	92	4	66 - 133	20	
Dibromomethane		10.0	10.0	100	9.96	100	1	76 - 125	20	
Dichlorodifluoromethane		10.0	11.5	115	11.0	110	5	30 - 153	20	
Ethylbenzene		10.0	9.71	97	9.57	96	1	73 - 127	20	
Hexachlorobutadiene		10.0	9.93	99	9.61	96	3	67 - 131	20	
Isopropylbenzene		10.0	9.90	99	9.74	97	2	75 - 127	20	
Methyl tert-butyl ether		10.0	10.1	101	10.3	103	3	65 - 123	20	
Methylene chloride		10.0	10.5	105	9.73	97	8	63 - 137	20	
n-Butylbenzene		10.0	9.78	98	9.65	97	1	69 - 137	20	
n-Propylbenzene		10.0	10.4	104	10.2	102	2	72 - 129	20	
Naphthalene		10.0	8.65	86	9.02	90	4	54 - 138	20	
o-Xylene		10.0	9.51	95	9.39	94	1	80 - 121	20	
p-Isopropyltoluene		10.0	9.98	100	9.72	97	3	73 - 130	20	
sec-Butylbenzene		10.0	10.3	103	10.1	101	2	72 - 127	20	
Styrene		10.0	9.70	97	9.57	96	1	65 - 134	20	
tert-Butylbenzene		10.0	9.84	98	9.71	97	1	70 - 129	20	
Tetrachloroethene		10.0	8.83	88	8.90	89	1	66 - 128	20	
Toluene		10.0	9.66	97	9.71	97	1	77 - 122	20	
trans-1,2-Dichloroethene		10.0	9.39	94	9.17	92	2	63 - 137	20	
trans-1,3-Dichloropropene		10.0	9.48	95	9.45	94	0	59 - 135	20	
Trichloroethene		10.0	9.87	99	9.84	98	0	70 - 127	20	
Trichlorofluoromethane		10.0	10.4	104	9.69	97	8	57 - 129	20	
Vinyl chloride		10.0	10.6	106	10.2	102	4	50 - 134	20	
Xylenes (total)		30.0	28.6	95	28.2	94	1	80 - 121	20	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8260B **AAB #:** R18463

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
SMCSW0101FA	0910008-001A	01-Oct-09	02-Oct-09	06-Oct-09			06-Oct-09	14	5.1	
SMCSW0401FA	0910008-002A	01-Oct-09	02-Oct-09	06-Oct-09			06-Oct-09	14	5.1	
SMCSW0401FC	0910008-003A	01-Oct-09	02-Oct-09	06-Oct-09			06-Oct-09	14	5.1	
SMCSW0501FA	0910008-004A	01-Oct-09	02-Oct-09	06-Oct-09			06-Oct-09	14	5.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8260B **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: MS01_11 **Calibration ID:** 1629

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TB091509A1	TB091509A1	15-Sep-09	9:47	15-Sep-09	10:30
ICAL 0.5 PPB	ICAL 0.5 PPB	15-Sep-09	10:30	15-Sep-09	11:15
ICAL 1.0 PPB	ICAL 1.0 PPB	15-Sep-09	11:15	15-Sep-09	11:50
ICAL 2.0 PPB	ICAL 2.0 PPB	15-Sep-09	11:50	15-Sep-09	12:24
ICAL 10 PPB	ICAL 10 PPB	15-Sep-09	12:24	15-Sep-09	13:06
ICAL 20 PPB	ICAL 20 PPB	15-Sep-09	13:06	15-Sep-09	13:53
ICAL 30 PPB	ICAL 30 PPB	15-Sep-09	13:53	15-Sep-09	14:41
ICAL 40 PPB	ICAL 40 PPB	15-Sep-09	14:41	15-Sep-09	16:57
2SRC-18308	2SRC-18308	15-Sep-09	16:57	15-Sep-09	16:57
TB100609A1	TB100609A1	06-Oct-09	7:54	06-Oct-09	8:28
CCV-18463	CCV-18463	06-Oct-09	8:28	06-Oct-09	9:02
LCS-18463	LCS-18463	06-Oct-09	9:02	06-Oct-09	9:38
LCSD-18463	LCSD-18463	06-Oct-09	9:38	06-Oct-09	10:46
MB-18463	MB-18463	06-Oct-09	10:46	06-Oct-09	17:28
SMCSW0101FA	0910008-001A	06-Oct-09	17:28	06-Oct-09	18:01
SMCSW0401FA	0910008-002A	06-Oct-09	18:01	06-Oct-09	18:35
SMCSW0401FC	0910008-003A	06-Oct-09	18:35	06-Oct-09	19:08
SMCSW0501FA	0910008-004A	06-Oct-09	19:08	06-Oct-09	19:08

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS01_11_090915A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Injection Date/Time:**	9/15/2009 9:47:00 AM
Initial Calibration ID:	1629	**File ID:**	C:\HPCHEM\1\DATA\T7317.D
Compound:	SW8260B	**Sample ID:**	TB091509A1

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	25.1	
75	30 - 60% of m/z 95	57.6	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.9	
173	Less than 2% of m/z 174	0.5	
174	Greater than 50% of m/z 95	71.4	
175	5 - 9% of m/z 174	7.2	
176	Greater than 95% but less than 101% of m/z 174	97.4	
177	5 - 9% of m/z 176	6.6	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8260B	**AAB #:**	MS01_11_091006A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS01_11	**Injection Date/Time:**	10/6/2009 7:54:00 AM
Initial Calibration ID:	1629	**File ID:**	C:\HPCHEM\1\DATA\T7548.D
Compound:	SW8260B	**Sample ID:**	TB100609A1

Mass	Ion Abundance Criteria	% Relative Abundance	Q
50	15 - 40% of m/z 95	25.7	
75	30 - 60% of m/z 95	56.3	
95	Base peak, 100% relative abundance	100	
96	5 - 9% of m/z 95	6.9	
173	Less than 2% of m/z 174	0.7	
174	Greater than 50% of m/z 95	80.4	
175	5 - 9% of m/z 174	7.2	
176	Greater than 95% but less than 101% of m/z 174	97.5	
177	5 - 9% of m/z 176	6.8	

Life Science Laboratories, Inc.
5000 Brittonfield Parkway, Suite 200
East Syracuse, NY 13057 **(315) 437-0200**

Thursday, October 22, 2009

Niels van Hoesel
FPM Group
153 Brooks Road
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - SMC LTM-SED
RE: Analytical Results Order No.: 0910009

Dear Niels van Hoesel:

Life Science Laboratories, Inc. received 4 sample(s) on 10/2/2009 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

Pamela J. Titus
Project Manager

Laboratory Report

Project Management Case Narrative

INTRODUCTION/ANALYTICAL RESULTS

This report summarizes the laboratory results for samples from FPM, for the Griffiss AFB-SMC LTM-Sed-Rome, NY project.

CONDITION UPON RECEIPT/CHAIN OF CUSTODY

The cooler(s) were received intact. When the cooler(s) were received by the laboratory, the sample custodian(s) opened and inspected the shipment(s) for damage and custody inconsistencies. Chains of custody documenting receipt are presented in the chain of custody section. Each sample was assigned a unique laboratory number and a custody file created. The samples were placed in a secured walk-in cooler and signed in and out by the chemists performing the tests. The sign out record, or lab chronicle, is presented in the chain of custody section.

There were no discrepancies noted upon receipt. The temperature of the iced cooler was -1.4°C.

METHODOLOGY

The following methods were used to perform the analyses:

PARAMETER	METHOD	REFERENCE
Semivolatile Organics	SW8270C	1
Pesticides	SW8081A	1
PCBs	SW8082	1
Percent Moisture	ASTM D2216	2

1) Test Methods for Evaluating Solid Wastes, SW-846 Third Edition, Final Update III, December 1996 (including the QC requirements specified in AFCEE 4.0 + variances).

2) ASTM

QUALITY CONTROL

QA/QC results are summarized in the Laboratory Report.

RAW DATA

The raw data is not requested for this report. Life Science Laboratories, Inc. will keep the raw data on file.

Total # of pages in this report: _____

GC/MS Semi-Volatile Organics Case Narrative

Client ID:	FPM
Project/Order:	Griffiss AFB - SMC LTM-Sed
Work Order #:	0910009
Methodology:	8270C

Analyzed/Reviewed by (Initials/Date): 10-16-09

Supervisor/Reviewed by (Initials/Date): 10-16-09

QA/QC Review (Initials/Date): 10/19/09

File Name: G:\Narratives\MSSemi\0910009svnar.doc

GC/MS Semi-Volatile Organics
The GC/MS Semi-volatile instruments used a J & W DB-5MS, 30 m x 0.25 mm ID capillary column.

There were no excursions to note. All QC results were within established control limits.

Holding Times and Sample Preservation
All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Sample
All spike recoveries met method and/or project specific QC criteria.

Surrogate Standards
All surrogate standard recoveries met method and/or project specific QC criteria.

Internal Standards
All internal standard areas met method and/or project specific QC criteria.

Calibrations
All initial calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks
All preparation blanks met method and/or project specific QC criteria.

GC Semivolatile Organics Case Narrative - Page 1

Client:	FPM
Project/Order:	Griffiss AFB-SMC LTM-Sed
Work Order:	0910009
Methodology:	8081

Analyzed/Reviewed by (Initials/Date): 10-20-09

Supervisor/Reviewed by (Initials/Date): 10-20-09

QA/QC Review (Initials/Date): JJ for LK 10/21/09

File Name: G:\Narratives\GCSemi\0910009Pest.doc

Pesticides

Holding Times
All samples were prepared and analyzed within the method and/or QAPP specified holding time requirements.

Laboratory Control Samples
All spike recoveries met method and/or project specific QC criteria.

Surrogates
The following samples did not meet surrogate recovery criteria for Tetrachloro-m-xylene (TCMX):

Sample Description	Sample #	Column	Corrective Action
SMCSD0101FA	0909009-001A	RTX-CLP	1
SMCSD0401FC	0909009-003A	RTX-CLP	1
SMCSD0501FA	0909009-004A	RTX-CLP	1

1. Surrogate recovery marginally exceeded the lower control limit, and met control limits on the confirmation column. All surrogate recoveries met quality control requirements in the associated QC samples (MB, LCS/LCSD, CCV, and PIB). Matrix effects are suspected. No corrective action taken.

Calibrations
All calibrations and calibration verifications met method and/or project specific QC criteria.

Preparation Blanks
All preparation blanks met method and/or project specific QC criteria.

GC Semi-Volatile Organics Case Narrative

Client:	FPM
Project/Order:	Griffiss AFB-SMC LTM-Sed
Work Order. #:	0910009
Methodology:	8082

Analyzed/Reviewed by (Initials/Date): SSc. 10/16/09

Supervisor/Reviewed by (Initials/Date): 10-16-09

QA/QC Review (Initials/Date): 10/19/09

File Name: G:\Narratives\GCSemi\0910009PCB.doc

PCBs

There were no excursions to note. All QC results were within established control limits.

Life Science Laboratories, Inc.

Date: *22-Oct-09*

CLIENT: FPM Group
Project: Griffiss AFB - SMC LTM-Sed
Lab Order: 0910009

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0910009-001A	SMCSD0101FA	RV-SMCFSS-1	10/1/2009	10/2/2009
0910009-002A	SMCSD0401FA	SMCSD-13	10/1/2009	10/2/2009
0910009-003A	SMCSD0401FC	SMCSD-13	10/1/2009	10/2/2009
0910009-004A	SMCSD0501FA	SMCSD-14	10/1/2009	10/2/2009

Life Science Laboratories, Inc.

Lab Order: 0910009
Client: FPM Group
Project: Griffiss AFB - SMC LTM-Sed

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0910009-001A	SMCSD0101FA	10/1/2009 3:54:00 PM	Sediment	Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Percent Moisture			10/7/2009
				Polychlorinated Biphenyls by GC/ECD		10/9/2009	10/14/2009
				Semivolatile Organic Compounds by GC/MS		10/6/2009	10/13/2009
0910009-002A	SMCSD0401FA	10/1/2009 3:26:00 PM		Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Percent Moisture			10/7/2009
				Polychlorinated Biphenyls by GC/ECD		10/9/2009	10/14/2009
				Semivolatile Organic Compounds by GC/MS		10/6/2009	10/12/2009
0910009-003A	SMCSD0401FC			Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Percent Moisture			10/7/2009
				Polychlorinated Biphenyls by GC/ECD		10/9/2009	10/14/2009
				Semivolatile Organic Compounds by GC/MS		10/6/2009	10/13/2009
0910009-004A	SMCSD0501FA	10/1/2009 3:00:00 PM		Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Organochlorine Pesticides by GC/ECD		10/9/2009	10/16/2009
				Percent Moisture			10/7/2009
				Polychlorinated Biphenyls by GC/ECD		10/9/2009	10/14/2009
				Semivolatile Organic Compounds by GC/MS		10/6/2009	10/13/2009

Chain of Custody

External Chain of Custody

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _234_ Cooler ID#: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5000 Brittonfield Pkwy, Suite 200 East Syracuse, NY 13057 Tel: (315)437-0200	Project Name: Griffiss AFB SMC LTM Sampler Name: Niels van Hoesel	Send Results to: Niels van Hoesel FPM Group Ltd. 153 Brooks Road Rome, NY 13441
Carrier: LSL courier.	Sampler Signature:	Phone: (315) 336-7721 Ext. 205

Analyses requested

Field Sample ID	LocID	Date 2009	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note 1 4 oz glass jar	VOCs note 1 40 mL vial	SVOCs, PCBs, Pesticides note 2 8 oz glass jar	Comments
SMCSD0101FA	RV-SMCFSS-1	10/1	1554	SE	G	N	0/0.5	1	-	-	1	
SMCSD0401FA	SMCSD-13	10/1	1526	SE	G	N	0/0.5	1	-	-	1	
SMCSD0401FC	SMCSD-13	10/1	1526	SE	G	FD	0/0.5	1	-	-	1	
SMCSD0501FA	SMCSD-14	10/1	1500	SE	G	N	0/0.5	1	-	-	1	

Sample Condition Upon Receipt at Laboratory: Good Custody Seal INTACT Cooler temperature: -1.4°C w/ ICE

Special Instructions/Comments: Parameter List: (According to AFCEE QAPP 4.0)

Note 1: VOCs: Method SW8260 for AFCEE QAPP 4.0 List.

Note 2: SVOCs: Method SW8270 for AFCEE QAPP 4.0 List, PCBs: Method SW8082 for AFCEE QAPP 4.0 List, Pesticides: Method SW8081 for AFCEE QAPP 4.0 List.

Note 3: Metals: Method SW6010B for AFCEE QAPP 4.0 List and Mercury: Method SW7471.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 10/2/09	#3 Released by: (Sig)	Date: 10-2-09
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 14:40	Company Name: Life Science Labs	Time: 1620
#1 Received by: (Sig) Niels van Hoesel	Date: 9/25/09	#2 Received by: (Sig)	Date: 10-2-09	#3 Received by: (Sig)	Date: 10/2/09
Company Name: FPM Group Ltd	Time:	Company Name: Life Science Labs	Time: 1445	Company Name: LSL	Time: 1620

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water
SE = Sediment

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **FPM**

Date and Time Received: **10/2/2009 4:20:00 PM**

Work Order Number: **0910009**

Received by: ads

Checklist completed by: _____ Initials 10/2/09 Date

Reviewed by: _____ Initials 10/5/09 Date

Delivery Method: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Comments:

Corrective Action:

Client/Project FPM 0910009

Sample Control Record

Sample ID	Frac	Client Sample ID	Removed By	Date and Time Removed	Analysis	Date and Time Returned
0910009-001→004	B		[illegible]	10/5/09 14:30	8270S	15:30
0910009-001→004	A		[illegible]	10/7/09 14:00	PNAs1T	15:00 10/7/09

Internal Chain of Custody

GC SEMIVOLATILE ORGANICS SAMPLE CONTROL LOG

QC Batch #: 10119 Date Extracted: 10/9/09

Client/Job Number	Laboratory Sample Number Range	Date/Time Stored in Refrigerator	Relinquished By	Laboratory Sample Number Removed	Date/Time Removed	By	Method Analyzed For	Date/Time Returned	By
FPM	0910009-1A→4A	10/12/09	EM	0910009-1A→4A	10/14/09	STA.	8082	10/15/09	STA.
	0910010-1B→8B	19:40		0910010-1B→8B	10:55			13:05	

Reviewed by: 10-16-09 Date:

G:\Logbooks 2006\Organics\SVOA37.SampleControl.doc

GC SEMIVOLATILE ORGANICS SAMPLE CONTROL LOG

QC Batch #: 10117 Date Extracted: 10/9/09

Client/Job Number	Laboratory Sample Number Range	Date/Time Stored in Refrigerator	Relinquished By	Laboratory Sample Number Removed	Date/Time Removed	By	Method Analyzed For	Date/Time Returned	By
FPM	0910009 - 1A ↓ 4A 0910010 - 1B ↓ 8B	10/11/09 16:20	EM	0910009 - 1B ↓ 4B 0910010 - 1B → 8B	10/15/09 17:35	SS.	8081	10/19/09 12:20	SS.

Reviewed by: (DD) 10-19-09 Date:

G:\Logbooks 2006\Organics\SVOA37.SampleControl.doc

Analytical Results

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/22/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-Trichlorobenzene	0.020	1.0	0.020	1		U
1,2-Dichlorobenzene	0.020	1.0	0.020	1		U
1,3-Dichlorobenzene	0.020	1.0	0.020	1		U
1,4-Dichlorobenzene	0.020	1.0	0.020	1		U
2,4,5-Trichlorophenol	0.059	4.9	0.059	1		U
2,4,6-Trichlorophenol	0.059	0.44	0.059	1		U
2,4-Dichlorophenol	0.020	0.44	0.020	1		U
2,4-Dimethylphenol	0.059	0.44	0.059	1		U
2,4-Dinitrophenol	0.98	4.9	0.98	1		U
2,4-Dinitrotoluene	0.020	1.0	0.020	1		U
2,6-Dinitrotoluene	0.020	1.0	0.020	1		U
2-Chloronaphthalene	0.020	1.0	0.020	1		U
2-Chlorophenol	0.020	0.44	0.020	1		U
2-Methylnaphthalene	0.020	1.0	0.020	1		U
2-Methylphenol	0.020	0.44	0.020	1		U
2-Nitroaniline	0.020	4.9	0.020	1		U
2-Nitrophenol	0.020	0.44	0.020	1		U
3,3´-Dichlorobenzidine	0.059	1.9	0.059	1		U
3-Nitroaniline	0.059	4.9	0.059	1		U
4,6-Dinitro-2-methylphenol	0.25	4.9	0.25	1		U
4-Bromophenyl phenyl ether	0.020	1.0	0.020	1		U
4-Chloro-3-methylphenol	0.020	1.9	0.020	1		U
4-Chloroaniline	0.020	1.9	0.020	1		U
4-Chlorophenyl phenyl ether	0.020	1.0	0.020	1		U
4-Methylphenol	0.059	3.0	0.059	1		U
4-Nitroaniline	0.020	4.9	0.020	1		U
4-Nitrophenol	0.25	2.4	0.25	1		U
Acenaphthene	0.020	1.0	0.020	1		U
Acenaphthylene	0.020	1.0	0.020	1		U
Anthracene	0.020	1.0	0.020	1		U
Benzo[a]anthracene	0.020	1.0	0.053	1		F
Benzo[a]pyrene	0.020	1.0	0.048	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Benzo[b]fluoranthene	0.020	1.0	0.12	1		F
Benzo[g,h,i]perylene	0.059	1.0	0.059	1		U
Benzo[k]fluoranthene	0.020	1.0	0.029	1		F
Benzoic acid	0.25	7.4	0.25	1		U
Benzyl alcohol	0.020	1.9	0.020	1		U
bis(2-Chloroethoxy)methane	0.020	1.0	0.020	1		U
bis(2-chloroethyl)ether	0.020	1.0	0.020	1		U
bis(2-chloroisopropyl)ether	0.020	1.0	0.020	1		U
bis(2-Ethylhexyl)phthalate	0.020	1.0	0.020	1		U
Butyl benzyl phthalate	0.020	1.0	0.020	1		U
Chrysene	0.020	1.0	0.056	1		F
Di-n-butyl phthalate	0.020	1.0	0.020	1		U
Di-n-octyl phthalate	0.020	1.0	0.020	1		U
Dibenz[a,h]anthracene	0.059	1.0	0.059	1		U
Dibenzofuran	0.020	1.0	0.020	1		U
Diethyl phthalate	0.020	1.0	0.020	1		U
Dimethyl phthalate	0.020	1.0	0.020	1		U
Fluoranthene	0.020	1.0	0.11	1		F
Fluorene	0.020	1.0	0.020	1		U
Hexachlorobenzene	0.020	1.0	0.020	1		U
Hexachlorobutadiene	0.059	1.0	0.059	1		U
Hexachloroethane	0.059	1.0	0.059	1		U
Indeno[1,2,3-cd]pyrene	0.059	1.0	0.059	1		U
Isophorone	0.020	1.0	0.020	1		U
N-Nitroso-di-n-propylamine	0.020	1.0	0.020	1		U
N-Nitrosodiphenylamine	0.020	1.0	0.020	1		U
Naphthalene	0.020	1.0	0.020	1		U
Nitrobenzene	0.020	1.0	0.020	1		U
Pentachlorophenol	0.49	4.9	0.49	1		U
Phenanthrene	0.020	1.0	0.064	1		F
Phenol	0.020	0.44	0.020	1		U
Pyrene	0.020	1.0	0.11	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1648	**File ID:**	N1632.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	97	36 - 126	
2-Fluorobiphenyl	84	43 - 120	
2-Fluorophenol	81	37 - 120	
Nitrobenzene-d5	85	37 - 120	
Phenol-d5	84	40 - 120	
Terphenyl-d14	104	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	149172	61370 - 245480	
Acenaphthene-d10	303969	121827 - 487308	
Chrysene-d12	502205	233714 - 934858	
Naphthalene-d8	544022	223871 - 895484	
Perylene-d12	423635	208094 - 832374	
Phenanthrene-d10	496441	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-Trichlorobenzene	0.017	0.89	0.017	1		U
1,2-Dichlorobenzene	0.017	0.89	0.017	1		U
1,3-Dichlorobenzene	0.017	0.89	0.017	1		U
1,4-Dichlorobenzene	0.017	0.89	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.38	0.051	1		U
2,4-Dichlorophenol	0.017	0.38	0.017	1		U
2,4-Dimethylphenol	0.051	0.38	0.051	1		U
2,4-Dinitrophenol	0.84	4.2	0.84	1		U
2,4-Dinitrotoluene	0.017	0.89	0.017	1		U
2,6-Dinitrotoluene	0.017	0.89	0.017	1		U
2-Chloronaphthalene	0.017	0.89	0.017	1		U
2-Chlorophenol	0.017	0.38	0.017	1		U
2-Methylnaphthalene	0.017	0.89	0.023	1		F
2-Methylphenol	0.017	0.38	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.38	0.017	1		U
3,3'-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.89	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.89	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.0	0.21	1		U
Acenaphthene	0.017	0.89	0.017	1		U
Acenaphthylene	0.017	0.89	0.017	1		U
Anthracene	0.017	0.89	0.017	1		U
Benzo[a]anthracene	0.017	0.89	0.017	1		U
Benzo[a]pyrene	0.017	0.89	0.017	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Benzo[b]fluoranthene	0.017	0.89	0.017	1		U
Benzo[g,h,i]perylene	0.051	0.89	0.051	1		U
Benzo[k]fluoranthene	0.017	0.89	0.017	1		U
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.89	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.89	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.89	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.89	0.017	1		U
Butyl benzyl phthalate	0.017	0.89	0.017	1		U
Chrysene	0.017	0.89	0.017	1		U
Di-n-butyl phthalate	0.017	0.89	0.017	1		U
Di-n-octyl phthalate	0.017	0.89	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.89	0.051	1		U
Dibenzofuran	0.017	0.89	0.017	1		U
Diethyl phthalate	0.017	0.89	0.017	1		U
Dimethyl phthalate	0.017	0.89	0.017	1		U
Fluoranthene	0.017	0.89	0.017	1		U
Fluorene	0.017	0.89	0.017	1		U
Hexachlorobenzene	0.017	0.89	0.017	1		U
Hexachlorobutadiene	0.051	0.89	0.051	1		U
Hexachloroethane	0.051	0.89	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.89	0.051	1		U
Isophorone	0.017	0.89	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.89	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.89	0.017	1		U
Naphthalene	0.017	0.89	0.045	1		F
Nitrobenzene	0.017	0.89	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.89	0.017	1		U
Phenol	0.017	0.38	0.017	1		U
Pyrene	0.017	0.89	0.017	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1648	**File ID:**	N1626.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	12-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	90	36 - 126	
2-Fluorobiphenyl	88	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	83	37 - 120	
Phenol-d5	86	40 - 120	
Terphenyl-d14	102	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	123826	61370 - 245480	
Acenaphthene-d10	250187	121827 - 487308	
Chrysene-d12	435845	233714 - 934858	
Naphthalene-d8	461267	223871 - 895484	
Perylene-d12	380801	208094 - 832374	
Phenanthrene-d10	414124	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-Trichlorobenzene	0.017	0.90	0.017	1		U
1,2-Dichlorobenzene	0.017	0.90	0.017	1		U
1,3-Dichlorobenzene	0.017	0.90	0.017	1		U
1,4-Dichlorobenzene	0.017	0.90	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.39	0.051	1		U
2,4-Dichlorophenol	0.017	0.39	0.017	1		U
2,4-Dimethylphenol	0.051	0.39	0.051	1		U
2,4-Dinitrophenol	0.85	4.2	0.85	1		U
2,4-Dinitrotoluene	0.017	0.90	0.017	1		U
2,6-Dinitrotoluene	0.017	0.90	0.017	1		U
2-Chloronaphthalene	0.017	0.90	0.017	1		U
2-Chlorophenol	0.017	0.39	0.017	1		U
2-Methylnaphthalene	0.017	0.90	0.058	1		F
2-Methylphenol	0.017	0.39	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.39	0.017	1		U
3,3'-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.1	0.21	1		U
Acenaphthene	0.017	0.90	0.087	1		F
Acenaphthylene	0.017	0.90	0.017	1		U
Anthracene	0.017	0.90	0.15	1		F
Benzo[a]anthracene	0.017	0.90	0.63	1		F
Benzo[a]pyrene	0.017	0.90	0.68	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Benzo[b]fluoranthene	0.017	0.90	1.7	1		
Benzo[g,h,i]perylene	0.051	0.90	0.24	1		F
Benzo[k]fluoranthene	0.017	0.90	0.65	1		F
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.90	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.90	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.90	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.90	0.037	1		F
Butyl benzyl phthalate	0.017	0.90	0.017	1		U
Chrysene	0.017	0.90	1.0	1		
Di-n-butyl phthalate	0.017	0.90	0.017	1		U
Di-n-octyl phthalate	0.017	0.90	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.90	0.078	1		F
Dibenzofuran	0.017	0.90	0.066	1		F
Diethyl phthalate	0.017	0.90	0.017	1		U
Dimethyl phthalate	0.017	0.90	0.017	1		U
Fluoranthene	0.017	0.90	0.79	1		F
Fluorene	0.017	0.90	0.10	1		F
Hexachlorobenzene	0.017	0.90	0.017	1		U
Hexachlorobutadiene	0.051	0.90	0.051	1		U
Hexachloroethane	0.051	0.90	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.90	0.16	1		F
Isophorone	0.017	0.90	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.90	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.90	0.017	1		U
Naphthalene	0.017	0.90	0.092	1		F
Nitrobenzene	0.017	0.90	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.90	0.74	1		F
Phenol	0.017	0.39	0.017	1		U
Pyrene	0.017	0.90	0.83	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1648	**File ID:**	N1635.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	102	36 - 126	
2-Fluorobiphenyl	90	43 - 120	
2-Fluorophenol	86	37 - 120	
Nitrobenzene-d5	88	37 - 120	
Phenol-d5	89	40 - 120	
Terphenyl-d14	110	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	146379	61370 - 245480	
Acenaphthene-d10	294836	121827 - 487308	
Chrysene-d12	444253	233714 - 934858	
Naphthalene-d8	546475	223871 - 895484	
Perylene-d12	245744	208094 - 832374	
Phenanthrene-d10	491022	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-Trichlorobenzene	0.017	0.90	0.017	1		U
1,2-Dichlorobenzene	0.017	0.90	0.017	1		U
1,3-Dichlorobenzene	0.017	0.90	0.017	1		U
1,4-Dichlorobenzene	0.017	0.90	0.017	1		U
2,4,5-Trichlorophenol	0.051	4.2	0.051	1		U
2,4,6-Trichlorophenol	0.051	0.38	0.051	1		U
2,4-Dichlorophenol	0.017	0.38	0.017	1		U
2,4-Dimethylphenol	0.051	0.38	0.051	1		U
2,4-Dinitrophenol	0.84	4.2	0.84	1		U
2,4-Dinitrotoluene	0.017	0.90	0.017	1		U
2,6-Dinitrotoluene	0.017	0.90	0.017	1		U
2-Chloronaphthalene	0.017	0.90	0.017	1		U
2-Chlorophenol	0.017	0.38	0.017	1		U
2-Methylnaphthalene	0.017	0.90	0.017	1		U
2-Methylphenol	0.017	0.38	0.017	1		U
2-Nitroaniline	0.017	4.2	0.017	1		U
2-Nitrophenol	0.017	0.38	0.017	1		U
3,3´-Dichlorobenzidine	0.051	1.7	0.051	1		U
3-Nitroaniline	0.051	4.2	0.051	1		U
4,6-Dinitro-2-methylphenol	0.21	4.2	0.21	1		U
4-Bromophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Chloro-3-methylphenol	0.017	1.7	0.017	1		U
4-Chloroaniline	0.017	1.7	0.017	1		U
4-Chlorophenyl phenyl ether	0.017	0.90	0.017	1		U
4-Methylphenol	0.051	2.6	0.051	1		U
4-Nitroaniline	0.017	4.2	0.017	1		U
4-Nitrophenol	0.21	2.0	0.21	1		U
Acenaphthene	0.017	0.90	0.017	1		U
Acenaphthylene	0.017	0.90	0.017	1		U
Anthracene	0.017	0.90	0.017	1		U
Benzo[a]anthracene	0.017	0.90	0.017	1		U
Benzo[a]pyrene	0.017	0.90	0.017	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Benzo[b]fluoranthene	0.017	0.90	0.017	1		U
Benzo[g,h,i]perylene	0.051	0.90	0.051	1		U
Benzo[k]fluoranthene	0.017	0.90	0.017	1		U
Benzoic acid	0.21	6.4	0.21	1		U
Benzyl alcohol	0.017	1.7	0.017	1		U
bis(2-Chloroethoxy)methane	0.017	0.90	0.017	1		U
bis(2-chloroethyl)ether	0.017	0.90	0.017	1		U
bis(2-chloroisopropyl)ether	0.017	0.90	0.017	1		U
bis(2-Ethylhexyl)phthalate	0.017	0.90	0.020	1		F
Butyl benzyl phthalate	0.017	0.90	0.017	1		U
Chrysene	0.017	0.90	0.017	1		U
Di-n-butyl phthalate	0.017	0.90	0.017	1		U
Di-n-octyl phthalate	0.017	0.90	0.017	1		U
Dibenz[a,h]anthracene	0.051	0.90	0.051	1		U
Dibenzofuran	0.017	0.90	0.017	1		U
Diethyl phthalate	0.017	0.90	0.017	1		U
Dimethyl phthalate	0.017	0.90	0.017	1		U
Fluoranthene	0.017	0.90	0.025	1		F
Fluorene	0.017	0.90	0.017	1		U
Hexachlorobenzene	0.017	0.90	0.017	1		U
Hexachlorobutadiene	0.051	0.90	0.051	1		U
Hexachloroethane	0.051	0.90	0.051	1		U
Indeno[1,2,3-cd]pyrene	0.051	0.90	0.051	1		U
Isophorone	0.017	0.90	0.017	1		U
N-Nitroso-di-n-propylamine	0.017	0.90	0.017	1		U
N-Nitrosodiphenylamine	0.017	0.90	0.017	1		U
Naphthalene	0.017	0.90	0.017	1		U
Nitrobenzene	0.017	0.90	0.017	1		U
Pentachlorophenol	0.42	4.2	0.42	1		U
Phenanthrene	0.017	0.90	0.019	1		F
Phenol	0.017	0.38	0.017	1		U
Pyrene	0.017	0.90	0.027	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8270C	**Preparatory Method:**	SW3550B	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1648	**File ID:**	N1631.D
Date Received:	02-Oct-09	**Date Extracted:**	06-Oct-09	**Date Analyzed:**	13-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	98	36 - 126	
2-Fluorobiphenyl	88	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	84	37 - 120	
Phenol-d5	89	40 - 120	
Terphenyl-d14	100	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	134132	61370 - 245480	
Acenaphthene-d10	276534	121827 - 487308	
Chrysene-d12	474382	233714 - 934858	
Naphthalene-d8	502062	223871 - 895484	
Perylene-d12	416587	208094 - 832374	
Phenanthrene-d10	461947	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8081A

AAB #: 10117

Lab Name: Life Science Laboratories, Inc.

Contract Number:

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus

Name: Pamela J. Titus

Date: 10/22/09

Title: Project Manager

REVISED
12/10/09

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101547.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00049	0.0025	0.00049	1	0.00049	U
beta-BHC	0.0012	0.0025	0.0012	1	0.0012	U
delta-BHC	0.00068	0.0025	0.00068	1	0.00068	U
gamma-BHC	0.00055	0.0025	0.00055	1	0.00055	U
alpha-Chlordane	0.00052	0.0025	0.00052	1	0.00052	U
gamma-Chlordane	0.00062	0.0025	0.00062	1	0.00062	U
4,4´-DDD	0.00052	0.0049	0.00052	1	0.00052	U
4,4´-DDE	0.00055	0.0049	0.00055	1	0.00055	U
4,4´-DDT	0.00064	0.0049	0.00064	1	0.00064	U
Aldrin	0.00059	0.0025	0.00059	1	0.00059	U
Dieldrin	0.00062	0.0049	0.00062	1	0.00062	U
Endosulfan I	0.00046	0.0025	0.00046	1	0.00046	U
Endosulfan II	0.00055	0.0049	0.00055	1	0.00055	U
Endosulfan sulfate	0.00092	0.0049	0.00092	1	0.00092	U
Endrin	0.00096	0.0049	0.00096	1	0.00096	U
Endrin aldehyde	0.00070	0.0049	0.00070	1	0.00070	U
Heptachlor	0.00076	0.0025	0.00076	1	0.00076	U
Heptachlor epoxide	0.00067	0.0025	0.00067	1	0.00067	U
Methoxychlor	0.00065	0.025	0.00065	1	0.00065	U
Toxaphene	0.0099	0.15	0.0099	1	0.0099	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	70	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101547.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):		mg/Kg		**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	72	56 - 132	
Tetrachloro-m-xylene	71	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101548.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4´-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4´-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00054	1	0.00054	U
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00079	0.0042	0.00079	1	0.00079	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00057	0.0022	0.00057	1	0.00057	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0085	0.13	0.0085	1	0.0085	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	74	56 - 132	
Tetrachloro-m-xylene	76	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101548.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
4,4'-DDD	0.00045	0.0042	0.0015	1	0.00081	FJ

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	88	56 - 132	
Tetrachloro-m-xylene	81	69 - 124	

Comments:

REVISED 12/10/09

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101549.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4´-DDD	0.00045	0.0042	0.00045	1	0.00045	U
4,4´-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4´-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00090	1	0.00077	FJ
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00080	0.0042	0.00080	1	0.00080	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00058	0.0022	0.00058	1	0.00058	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0086	0.13	0.0086	1	0.0086	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	76	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101549.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	108	56 - 132	
Tetrachloro-m-xylene	77	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1652	**File ID:**	E:\Gtoct09\H101550.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
alpha-BHC	0.00042	0.0022	0.00042	1	0.00042	U
beta-BHC	0.0011	0.0022	0.0011	1	0.0011	U
delta-BHC	0.00059	0.0022	0.00059	1	0.00059	U
gamma-BHC	0.00047	0.0022	0.00047	1	0.00047	U
alpha-Chlordane	0.00045	0.0022	0.00045	1	0.00045	U
gamma-Chlordane	0.00054	0.0022	0.00054	1	0.00054	U
4,4´-DDD	0.00045	0.0042	0.00045	1	0.00045	U
4,4´-DDE	0.00047	0.0042	0.00047	1	0.00047	U
4,4´-DDT	0.00055	0.0042	0.00055	1	0.00055	U
Aldrin	0.00051	0.0022	0.00051	1	0.00051	U
Dieldrin	0.00054	0.0042	0.00054	1	0.00054	U
Endosulfan I	0.00040	0.0022	0.00040	1	0.00040	U
Endosulfan II	0.00047	0.0042	0.00047	1	0.00047	U
Endosulfan sulfate	0.00079	0.0042	0.00079	1	0.00079	U
Endrin	0.00083	0.0042	0.00083	1	0.00083	U
Endrin aldehyde	0.00060	0.0042	0.00060	1	0.00060	U
Heptachlor	0.00065	0.0022	0.00065	1	0.00065	U
Heptachlor epoxide	0.00058	0.0022	0.00058	1	0.00058	U
Methoxychlor	0.00056	0.022	0.00056	1	0.00056	U
Toxaphene	0.0086	0.13	0.0086	1	0.0086	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	109	56 - 132	
Tetrachloro-m-xylene	79	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8081A	**Preparatory Method:**	SW3550B	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1651	**File ID:**	E:\Gtoct09\G101550.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	16-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	69	56 - 132	
Tetrachloro-m-xylene	67	69 - 124	*

Comments:

AFCEE
ORGANIC ANALYSES DATA PACKAGE

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract Number:**

Base/Command: **Prime Contractor:** FPM Group

Field Sample ID	Lab Sample ID
SMCSD0101FA	0910009-001A
SMCSD0401FA	0910009-002A
SMCSD0401FC	0910009-003A
SMCSD0501FA	0910009-004A

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature: Pamela J. Titus Name: Pamela J. Titus

Date: 10/22/09 Title: Project Manager

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0101FA	**Lab Sample ID:**	0910009-001A	**Matrix:**	Sediment
% Solids:	67.50	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101410.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00324	0.0252	0.00324	1		U
Aroclor 1221	0.00329	0.0252	0.00329	1		U
Aroclor 1232	0.00200	0.0252	0.00200	1		U
Aroclor 1242	0.00271	0.0252	0.00271	1		U
Aroclor 1248	0.00529	0.0252	0.00529	1		U
Aroclor 1254	0.00702	0.0252	0.00702	1		U
Aroclor 1260	0.00296	0.0252	0.00296	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	92	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FA	**Lab Sample ID:**	0910009-002A	**Matrix:**	Sediment
% Solids:	78.40	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101411.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00279	0.0217	0.00279	1		U
Aroclor 1221	0.00283	0.0217	0.00283	1		U
Aroclor 1232	0.00172	0.0217	0.00172	1		U
Aroclor 1242	0.00233	0.0217	0.00233	1		U
Aroclor 1248	0.00455	0.0217	0.00455	1		U
Aroclor 1254	0.00605	0.0217	0.0727	1		
Aroclor 1260	0.00255	0.0217	0.00255	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	94	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0401FC	**Lab Sample ID:**	0910009-003A	**Matrix:**	Sediment
% Solids:	77.90	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101412.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00281	0.0218	0.00281	1		U
Aroclor 1221	0.00285	0.0218	0.00285	1		U
Aroclor 1232	0.00173	0.0218	0.00173	1		U
Aroclor 1242	0.00235	0.0218	0.00235	1		U
Aroclor 1248	0.00458	0.0218	0.00458	1		U
Aroclor 1254	0.00608	0.0218	0.0145	1		F
Aroclor 1260	0.00257	0.0218	0.00257	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	89	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8082	**Preparatory Method:**	SW3550B	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	SMCSD0501FA	**Lab Sample ID:**	0910009-004A	**Matrix:**	Sediment
% Solids:	78.20	**Initial Calibration ID:**	1650	**File ID:**	E:\90oct09\C101413.rst
Date Received:	02-Oct-09	**Date Extracted:**	09-Oct-09	**Date Analyzed:**	14-Oct-09
Concentration Units (ug/L or mg/Kg dry weight):	mg/Kg			**Sample Size:**	30 g

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Aroclor 1016	0.00280	0.0217	0.00280	1		U
Aroclor 1221	0.00284	0.0217	0.00284	1		U
Aroclor 1232	0.00173	0.0217	0.00173	1		U
Aroclor 1242	0.00234	0.0217	0.00234	1		U
Aroclor 1248	0.00457	0.0217	0.00457	1		U
Aroclor 1254	0.00606	0.0217	0.00606	1		U
Aroclor 1260	0.00256	0.0217	0.00256	1		U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	101	58 - 125	

Comments:

Life Science Laboratories, Inc.

Date: *08-Oct-09*

CLIENT: FPM Group
Lab Order: 0910009
Project: Griffiss AFB - SMC LTM-Sed

Sample ID	Lab ID	Units	Date Collected	Date Received	Date Analyzed	Batch ID	Percent Moisture
SMCSD0101FA	0910009-001A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	32.5
SMCSD0401FA	0910009-002A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	21.6
SMCSD0401FC	0910009-003A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	22.1
SMCSD0501FA	0910009-004A	wt%	10/1/2009	10/2/2009	10/7/2009	R18473	21.8

Quality Control Results

GC/MS Semivolatile Organics Data

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION-GC/MS ANALYSIS

Analytical Method: 8270

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5972 GCMS#5

Date of Initial Calibration: 09OCT2009

Initial Calibration ID: 1648

Concentration Units (ug/L or mg/kg): ug/mL

SEE ATTACHED

Comments:

AFCEE FORM O-3

Response Factor Report #5MS26

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator) /1648
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:29:36 2009
Response via : Initial Calibration

Calibration Files
160 =N1591.D 120 =N1592.D 80 =N1593.D
60 =N1594.D 50 =N1595.D 40 =N1596.D

		Compound	160	120	80	60	50	40	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD							
2)	T	1,4-Dioxane	0.574	0.546	0.554	0.540	0.541	0.539	0.530	6.42
3)	T	N-nitrosodimethylam	0.846	0.818	0.834	0.804	0.814	0.801	0.788	6.83
4)	T	Pyridine	1.426	1.391	1.411	1.390	1.369	1.383	1.359	4.59
5)	S	2-Fluorophenol	1.271	1.205	1.249	1.220	1.216	1.211	1.195	5.25
6)	S	Phenol-d5	1.602	1.536	1.594	1.555	1.543	1.595	1.543	3.88
7)	MC	Phenol	1.635	1.589	1.669	1.605	1.634	1.655	1.621	2.35
8)	T	Aniline	1.984	1.929	1.975	1.956	1.944	1.965	1.929	2.77
9)	T	bis(2-Chloroethyl)e	1.294	1.317	1.345	1.355	1.343	1.355	1.330	1.72
10)	S	2-Chlorophenol-d4							0.000	-1.00
11)	M	2-Chlorophenol	1.290	1.315	1.344	1.318	1.326	1.319	1.297	3.15
12)	T	1,3-Dichlorobenzene	1.361	1.421	1.470	1.453	1.447	1.449	1.421	2.69
13)	MC	1,4-Dichlorobenzene	1.314	1.373	1.454	1.443	1.425	1.434	1.404	3.15
14)	T	Benzyl alcohol	0.866	0.850	0.843	0.817	0.825	0.827	0.813	6.02
15)	S	1,2-Dichlorobenzene							0.000	-1.00
16)	T	1,2-Dichlorobenzene	1.224	1.279	1.322	1.306	1.266	1.281	1.272	2.58
17)	T	2-Methylphenol	1.068	1.113	1.131	1.125	1.129	1.122	1.111	2.58
18)	T	2,2'-oxybis(1-chlor	1.603	1.650	1.701	1.723	1.687	1.712	1.689	2.28
19)	T	bis(2-Chloroisoprop	1.603	1.650	1.701	1.723	1.687	1.712	1.689	2.28
20)	T	4-Methylphenol	1.220	1.232	1.237	1.229	1.235	1.237	1.214	3.27
21)	T	(3+4)-Methylphenol	1.220	1.232	1.237	1.229	1.235	1.237	1.214	3.27
22)	MP	N-Nitroso-di-n-prop	0.737	0.837	0.859	0.825	0.841	0.846	0.815	4.91
23)	T	Hexachloroethane	0.607	0.634	0.645	0.645	0.640	0.636	0.626	2.97
24)	I	Naphthalene-d8	ISTD							
25)	S	Nitrobenzene-d5	0.359	0.348	0.358	0.350	0.349	0.347	0.348	2.54
26)	T	Nitrobenzene	0.351	0.343	0.362	0.352	0.347	0.348	0.346	2.92
27)	T	Isophorone	0.685	0.649	0.665	0.648	0.642	0.647	0.644	3.91
28)	TC	2-Nitrophenol	0.219	0.214	0.226	0.219	0.217	0.215	0.210	7.01
29)	T	2,4-Dimethylphenol	0.351	0.349	0.353	0.346	0.344	0.345	0.344	2.46
30)	T	Benzoic acid	0.207	0.209	0.190	0.151	0.139	0.130	0.155	33.52
31)	T	bis(2-Chloroethoxy)	0.436	0.422	0.446	0.441	0.440	0.442	0.437	1.70
32)	TC	2,4-Dichlorophenol	0.310	0.304	0.318	0.304	0.301	0.301	0.296	6.00
33)	M	1,2,4-Trichlorobenz	0.323	0.325	0.341	0.333	0.328	0.326	0.325	2.69
34)	T	Naphthalene	0.833	0.848	0.920	0.902	0.891	0.910	0.894	3.62
35)	T	4-Chloroaniline	0.417	0.413	0.420	0.415	0.406	0.412	0.410	1.64
36)	TC	Hexachlorobutadiene	0.207	0.207	0.216	0.206	0.202	0.202	0.200	5.31
37)	MC	4-Chloro-3-methylph	0.304	0.296	0.307	0.300	0.296	0.294	0.291	5.14
38)	T	2-Methylnaphthalene	0.579	0.581	0.639	0.629	0.609	0.619	0.607	3.45
39)	I	Acenaphthene-d10	ISTD							
40)	T	1,2,4,5-Tetrachloro							0.000	-1.00
1)	TP	Hexachlorocyclopent	0.324	0.314	0.272	0.224	0.200	0.188	0.210	45.57

(#) = Out of Range ### Number of calibration levels exceeded format ###

Mark Gordon 10/12/

Response Factor Report #5MS26

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator) 1648
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:29:36 2009
Response via : Initial Calibration

Calibration Files
160 =N1591.D 120 =N1592.D 80 =N1593.D
60 =N1594.D 50 =N1595.D 40 =N1596.D

		Compound	160	120	80	60	50	40	Avg	%RSD
42)	TC	2,4,6-Trichlorophen	0.403	0.390	0.384	0.363	0.358	0.367	0.360	8.94
43)	T	2,4,5-Trichlorophen	0.396	0.408	0.391	0.376	0.373	0.381	0.366	9.74
44)	S	2-Fluorobiphenyl	1.131	1.138	1.209	1.192	1.182	1.219	1.177	2.80
45)	T	2-Chloronaphthalene	1.005	1.042	1.069	1.051	1.063	1.057	1.042	2.62
46)	T	2-Nitroaniline	0.339	0.339	0.346	0.332	0.332	0.331	0.324	7.12
47)	T	Dimethyl phthalate	1.235	1.278	1.276	1.271	1.275	1.285	1.250	3.10
48)	T	2,6-Dinitrotoluene	0.302	0.335	0.346	0.333	0.331	0.333	0.321	7.00
49)	T	Acenaphthylene	1.541	1.598	1.622	1.591	1.605	1.634	1.583	2.84
50)	T	3-Nitroaniline	0.325	0.380	0.375	0.356	0.370	0.366	0.352	7.32
51)	TCM	Acenaphthene	0.902	0.932	0.967	0.946	0.977	0.972	0.950	2.47
52)	TP	2,4-Dinitrophenol	0.206	0.208	0.183	0.154	0.146	0.141	0.161	25.50
53)	MP	4-Nitrophenol	0.145	0.155	0.146	0.133	0.134	0.134	0.137	10.18
54)	M	2,4-Dinitrotoluene	0.404	0.453	0.453	0.441	0.445	0.448	0.429	6.18
55)	T	Dibenzofuran	1.403	1.469	1.530	1.488	1.489	1.501	1.472	2.68
56)	T	Diethyl phthalate	1.109	1.266	1.316	1.304	1.322	1.335	1.270	5.52
57)	T	4-Chlorophenyl phen	0.557	0.597	0.625	0.601	0.604	0.611	0.589	4.41
58)	T	Fluorene	1.053	1.124	1.189	1.155	1.167	1.205	1.141	4.16
59)	T	4-Nitroaniline	0.353	0.372	0.382	0.372	0.374	0.379	0.361	6.82
60)	T	1,2-Diphenylhydrazi	1.098	1.216	1.316	1.306	1.322	1.345	1.288	6.37
61)	S	2,4,6-Tribromopheno	0.263	0.275	0.260	0.237	0.238	0.240	0.232	15.03
62)	I	Phenanthrene-d10	----------ISTD----------							
63)	T	4,6-Dinitro-2-methy	0.197	0.200	0.195	0.180	0.176	0.173	0.181	10.70
64)	TC	n-Nitrosodiphenylam	0.518	0.514	0.513	0.499	0.511	0.512	0.503	2.78
65)	T	4-Bromophenyl pheny	0.264	0.259	0.251	0.234	0.231	0.231	0.232	10.35
66)	T	Hexachlorobenzene	0.337	0.336	0.323	0.302	0.298	0.302	0.301	9.21
67)	MC	Pentachlorophenol	0.149	0.135	0.116	0.097	0.089	0.088	0.105	27.74#
68)	T	Phenanthrene	0.944	0.967	1.008	0.998	0.993	1.002	0.978	2.52
69)	T	Anthracene	0.962	0.978	1.029	0.999	1.007	1.033	0.998	2.32
70)	T	Carbazole	0.965	0.957	0.981	0.971	0.949	0.969	0.943	3.61
71)	T	Di-n-butyl phthalat	1.315	1.346	1.421	1.416	1.447	1.450	1.380	4.31
72)	TC	Fluoranthene	1.129	1.136	1.155	1.120	1.127	1.134	1.102	4.65
73)	I	Chrysene-d12	----------ISTD----------							
74)	T	Benzidine	0.493	0.534	0.545	0.555	0.565	0.573	0.542	4.86
75)	M	Pyrene	0.950	1.043	1.019	0.991	0.999	1.016	0.991	3.35
76)	S	Terphenyl-d14	0.634	0.676	0.673	0.657	0.657	0.656	0.637	5.66
77)	T	Butyl benzyl phthal	0.552	0.589	0.594	0.602	0.586	0.608	0.576	4.86
78)	T	3,3'-Dichlorobenzid	0.542	0.578	0.555	0.534	0.522	0.527	0.503	12.30
79)	T	Benzo[a]anthracene	0.985	1.012	0.996	0.980	0.986	0.990	0.976	2.61
80)	T	bis(2-Ethylhexyl)ph	0.754	0.770	0.743	0.788	0.829	0.847	0.790	4.87
81)	T	Chrysene	0.879	0.934	0.935	0.944	0.913	0.934	0.901	4.54
82)	TC	Di-n-octyl phthalat	1.322	1.407	1.452	1.510	1.497	1.532	1.429	6.35
83)	T	Indeno[1,2,3-cd]pyr	1.051	1.114	1.127	1.099	1.045	1.063	1.013	11.62

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #5MS26

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator) 1648
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:29:36 2009
Response via : Initial Calibration

Calibration Files
160 =N1591.D 120 =N1592.D 80 =N1593.D
60 =N1594.D 50 =N1595.D 40 =N1596.D

		Compound	160	120	80	60	50	40	Avg	%RSD
84)	I	Perylene-d12	ISTD							
85)	T	Benzo[b]fluoranthen	1.469	1.403	1.198	1.148	1.090	1.108	1.147	16.32
86)	T	Benzo[k]fluoranthen	0.815	0.940	1.084	1.092	1.121	1.075	1.016	9.31
87)	TC	Benzo[a]pyrene	1.091	1.118	1.089	1.070	1.045	1.029	1.021	8.45
88)	T	Dibenz[a,h]anthrace	1.018	1.057	1.073	1.053	1.018	0.990	0.965	11.94
89)	T	Benzo[g,h,i]perylen	0.945	0.984	0.993	0.968	0.930	0.932	0.912	8.87

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report #5MS26

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator) 1/48
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Initial Calibration

Calibration Files
20 =N1597.D 10 =N1598.D 5.0 =N1599.D
1.0 =N1600.D = =

		Compound	20	10	5.0	1.0	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------					
2)	T	1,4-Dioxane	0.519	0.503	0.457			
3)	T	N-nitrosodimethylam	0.771	0.730	0.678			
4)	T	Pyridine	1.345	1.276	1.240			
5)	S	2-Fluorophenol	1.187	1.132	1.064			
6)	S	Phenol-d5	1.562	1.486	1.416			
7)	MC	Phenol	1.650	1.598	1.550			
8)	T	Aniline	1.919	1.871	1.819			
9)	T	bis(2-Chloroethyl)e	1.345	1.313	1.305			
10)	S	2-Chlorophenol-d4						
11)	M	2-Chlorophenol	1.297	1.252	1.214			
12)	T	1,3-Dichlorobenzene	1.412	1.406	1.367			
13)	MC	1,4-Dichlorobenzene	1.425	1.395	1.375			
14)	T	Benzyl alcohol	0.820	0.759	0.709			
15)	S	1,2-Dichlorobenzene						
16)	T	1,2-Dichlorobenzene	1.290	1.252	1.230			
)	T	2-Methylphenol	1.148	1.102	1.063			
18)	T	2,2'-oxybis(1-chlor	1.716	1.701	1.703			
19)	T	bis(2-Chloroisoprop	1.716	1.701	1.703			
20)	T	4-Methylphenol	1.243	1.172	1.125			
21)	T	(3+4)-Methylphenol	1.243	1.172	1.125			
22)	MP	N-Nitroso-di-n-prop	0.824	0.800	0.767			
23)	T	Hexachloroethane	0.629	0.594	0.608			
24)	I	Naphthalene-d8	----------ISTD----------					
25)	S	Nitrobenzene-d5	0.346	0.346	0.328			
26)	T	Nitrobenzene	0.346	0.338	0.325			
27)	T	Isophorone	0.643	0.626	0.593			
28)	TC	2-Nitrophenol	0.208	0.193	0.179			
29)	T	2,4-Dimethylphenol	0.345	0.325	0.337			
30)	T	Benzoic acid	0.063					
31)	T	bis(2-Chloroethoxy)	0.439	0.440	0.429			
32)	TC	2,4-Dichlorophenol	0.287	0.279	0.260			
33)	M	1,2,4-Trichlorobenz	0.321	0.316	0.312			
34)	T	Naphthalene	0.924	0.904	0.917			
35)	T	4-Chloroaniline	0.401	0.407	0.402			
36)	TC	Hexachlorobutadiene	0.193	0.188	0.183			
37)	MC	4-Chloro-3-methylph	0.286	0.270	0.264			
38)	T	2-Methylnaphthalene	0.617	0.600	0.590			
39)	I	Acenaphthene-d10	----------ISTD----------					
40)	T	1,2,4,5-Tetrachloro						
)	TP	Hexachlorocyclopent	0.110	0.049				

(#) = Out of Range ### Number of calibration levels exceeded format ###

Mark Anderson 10/12/09

Response Factor Report #5MS26

1648

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Initial Calibration

Calibration Files
20 =N1597.D 10 =N1598.D 5.0 =N1599.D
1.0 =N1600.D = =

		Compound	20	10	5.0	1.0	Avg	%RSD
42)	TC	2,4,6-Trichlorophen	0.344	0.330	0.299			
43)	T	2,4,5-Trichlorophen	0.350	0.327	0.297			
44)	S	2-Fluorobiphenyl	1.204	1.176	1.141			
45)	T	2-Chloronaphthalene	1.052	1.052	0.988			
46)	T	2-Nitroaniline	0.321	0.301	0.273			
47)	T	Dimethyl phthalate	1.249	1.217	1.167			
48)	T	2,6-Dinitrotoluene	0.322	0.310	0.272			
49)	T	Acenaphthylene	1.600	1.567	1.489			
50)	T	3-Nitroaniline	0.354	0.340	0.301			
51)	TCM	Acenaphthene	0.962	0.951	0.942			
52)	TP	2,4-Dinitrophenol	0.092					
53)	MP	4-Nitrophenol	0.111					
54)	M	2,4-Dinitrotoluene	0.426	0.415	0.375			
55)	T	Dibenzofuran	1.491	1.453	1.425			
56)	T	Diethyl phthalate	1.297	1.262	1.220			
57)	T	4-Chlorophenyl phen	0.585	0.576	0.545			
58)	T	Fluorene	1.157	1.129	1.093			
)	T	4-Nitroaniline	0.364	0.352	0.302			
60)	T	1,2-Diphenylhydrazi	1.353	1.342	1.294			
61)	S	2,4,6-Tribromopheno	0.216	0.189	0.170			
62)	I	Phenanthrene-d10	----------ISTD----------					
63)	T	4,6-Dinitro-2-methy	0.144					
64)	TC	n-Nitrosodiphenylam	0.497	0.486	0.478			
65)	T	4-Bromophenyl pheny	0.217	0.202	0.195			
66)	T	Hexachlorobenzene	0.283	0.264	0.264			
67)	MC	Pentachlorophenol	0.065					
68)	T	Phenanthrene	0.984	0.958	0.945			
69)	T	Anthracene	1.000	0.985	0.985			
70)	T	Carbazole	0.898	0.905	0.896			
71)	T	Di-n-butyl phthalat	1.396	1.339	1.288			
72)	TC	Fluoranthene	1.079	1.034	1.006			
73)	I	Chrysene-d12	----------ISTD----------					
74)	T	Benzidine	0.532					
75)	M	Pyrene	0.987	0.970	0.941			
76)	S	Terphenyl-d14	0.614	0.596	0.572			
77)	T	Butyl benzyl phthal	0.570	0.561	0.520			
78)	T	3,3'-Dichlorobenzid	0.436	0.430	0.408			
79)	T	Benzo[a]anthracene	0.956	0.944	0.935			
80)	T	bis(2-Ethylhexyl)ph	0.829	0.800	0.750			
81)	T	Chrysene	0.879	0.860	0.827			
82)	TC	Di-n-octyl phthalat	1.482	1.398	1.262			
)	T	Indeno[1,2,3-cd]pyr	0.963	0.878	0.779			

(#) = Out of Range ### Number of calibration levels exceeded format ###

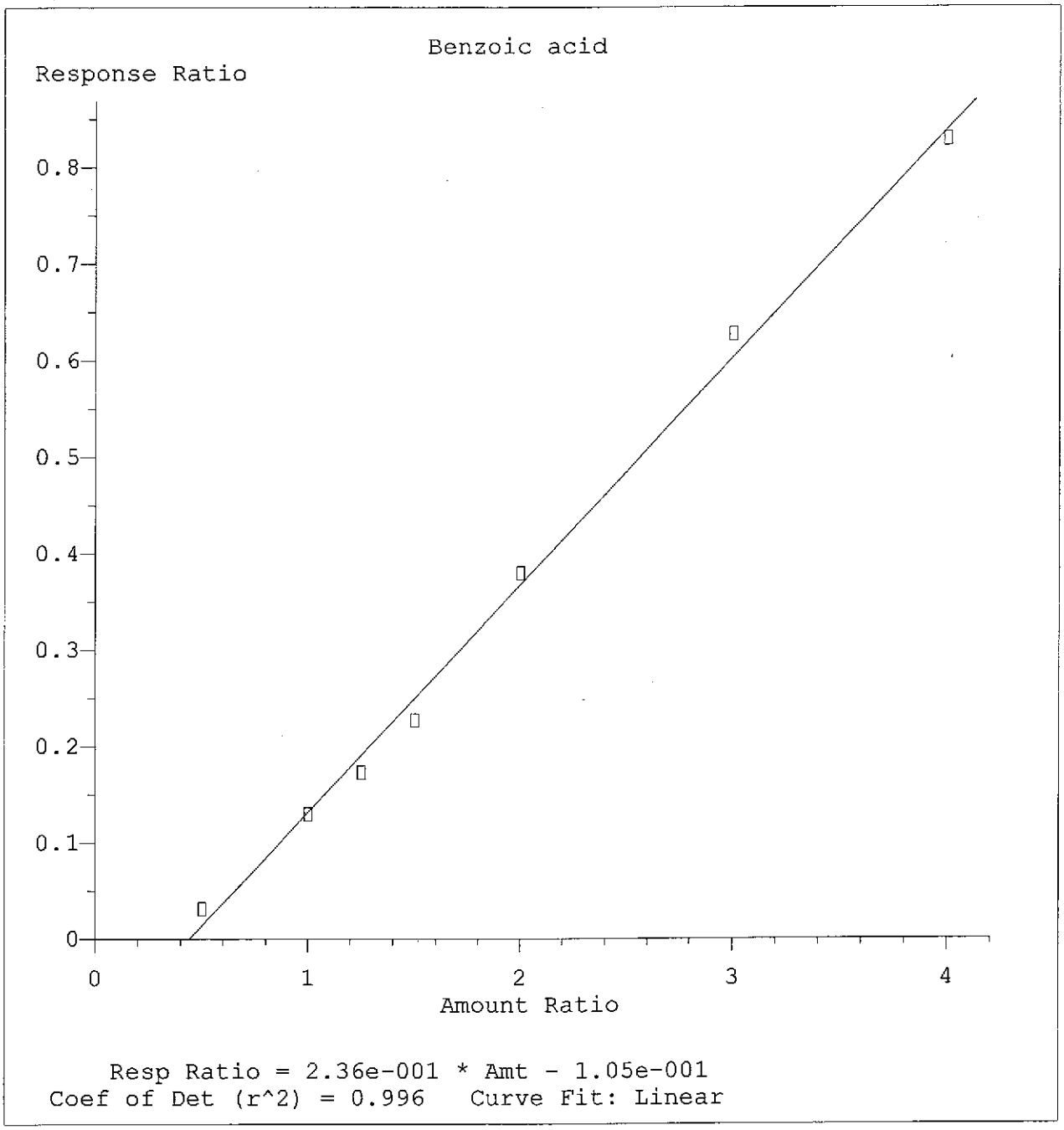
Response Factor Report #5MS26

Method : C:\HPCHEM\1\METHODS\NO09FULL.M (RTE Integrator) 1648
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Initial Calibration

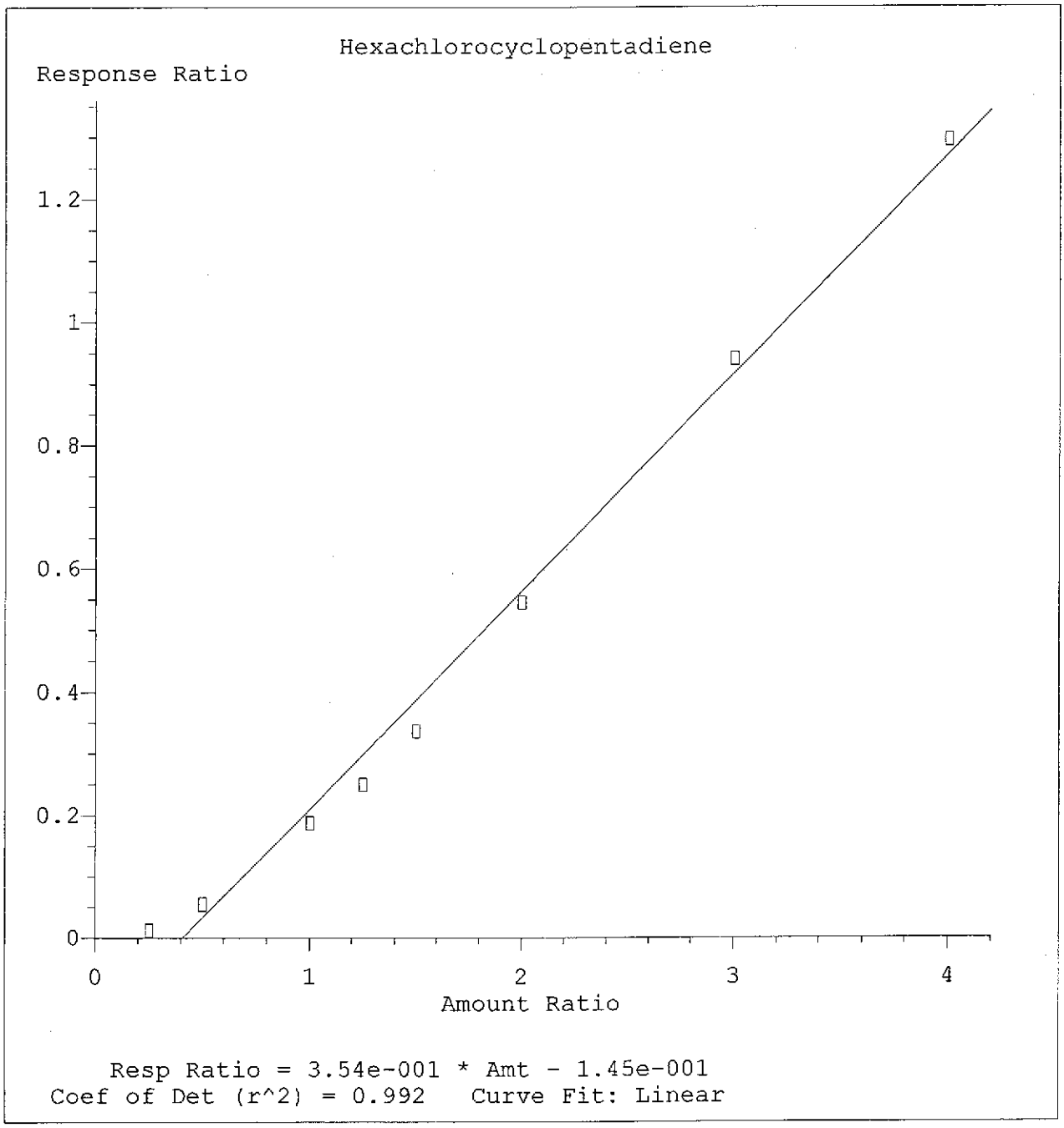
Calibration Files
20 =N1597.D 10 =N1598.D 5.0 =N1599.D
1.0 =N1600.D = =

		Compound	20	10	5.0	1.0	Avg	%RSD
84)	I	Perylene-d12	ISTD					
85)	T	Benzo[b]fluoranthen	1.044	0.941	0.922			
86)	T	Benzo[k]fluoranthen	1.020	1.003	0.990			
87)	TC	Benzo[a]pyrene	0.969	0.907	0.873			
88)	T	Dibenz[a,h]anthrace	0.917	0.814	0.748			
89)	T	Benzo[g,h,i]perylen	0.891	0.807	0.756			

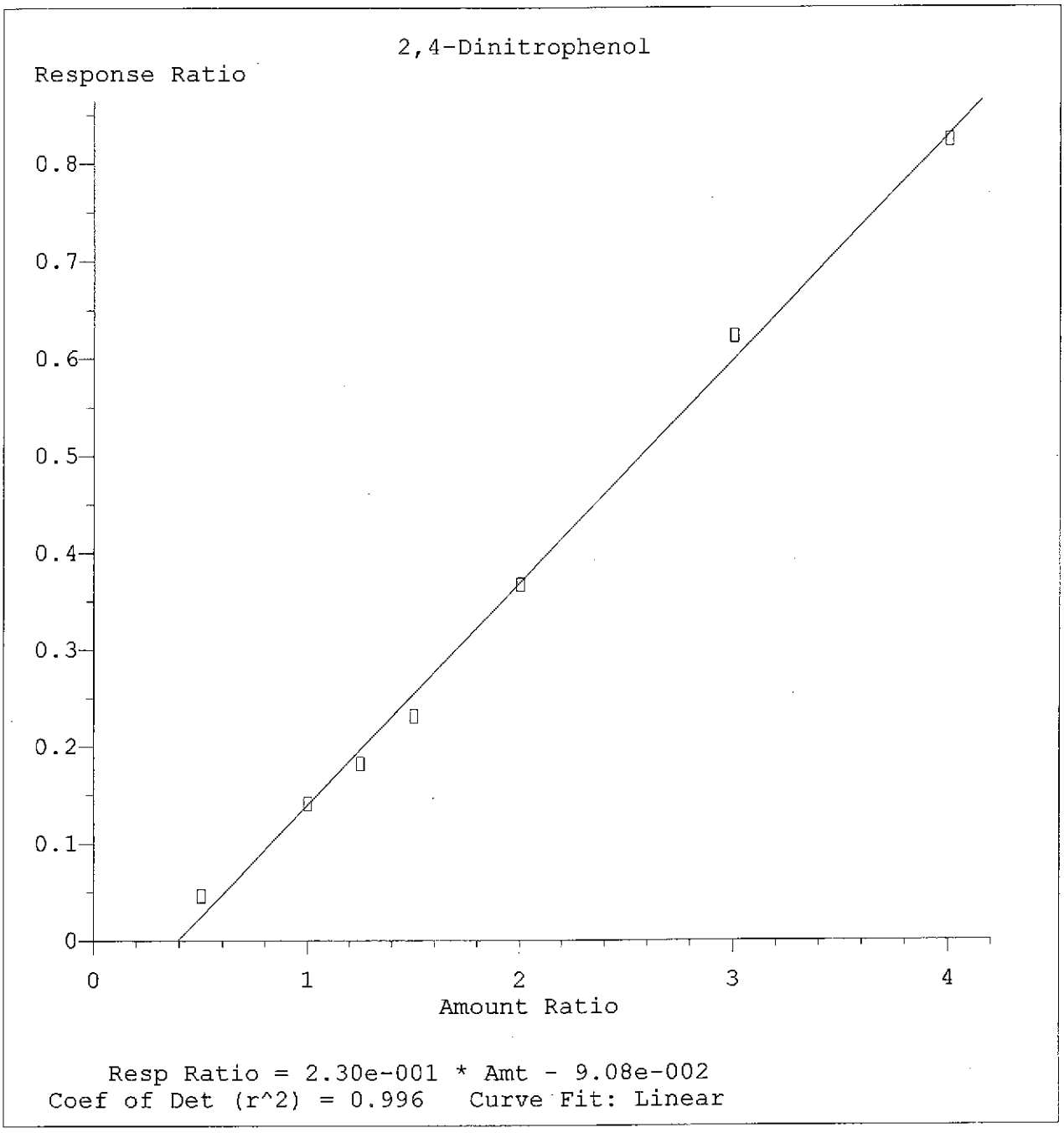
(#) = Out of Range ### Number of calibration levels exceeded format ###



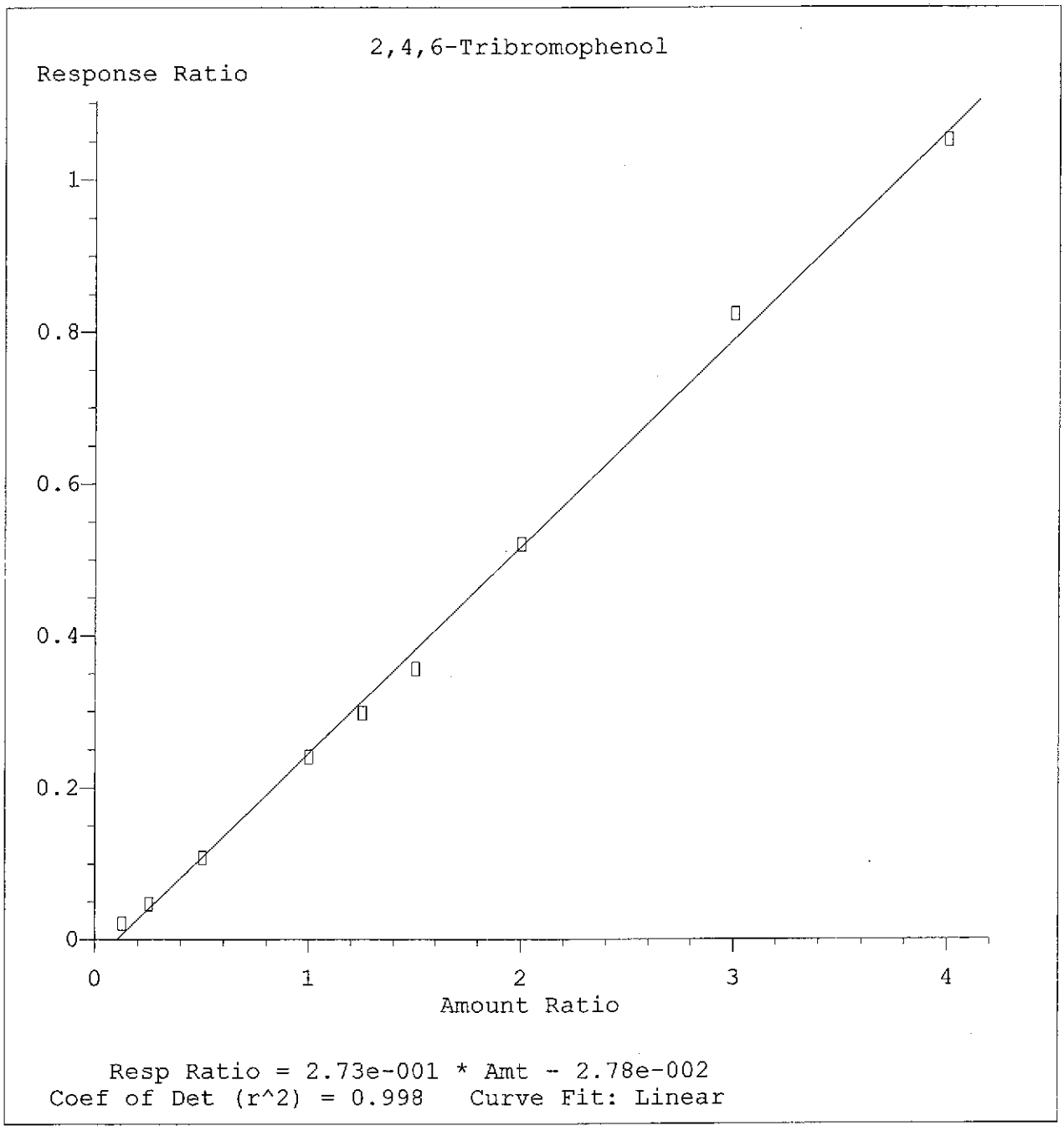
Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009



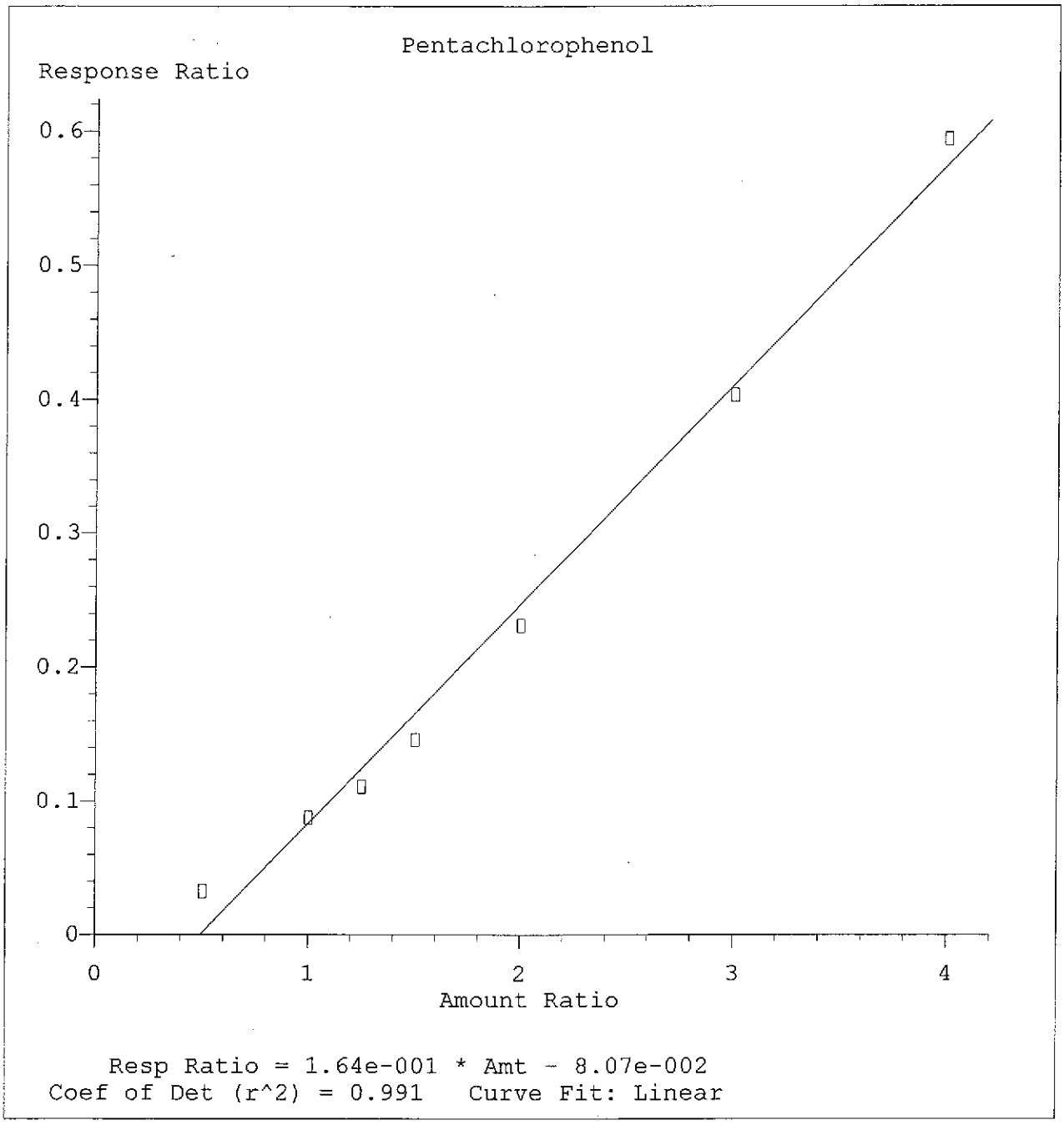
Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009



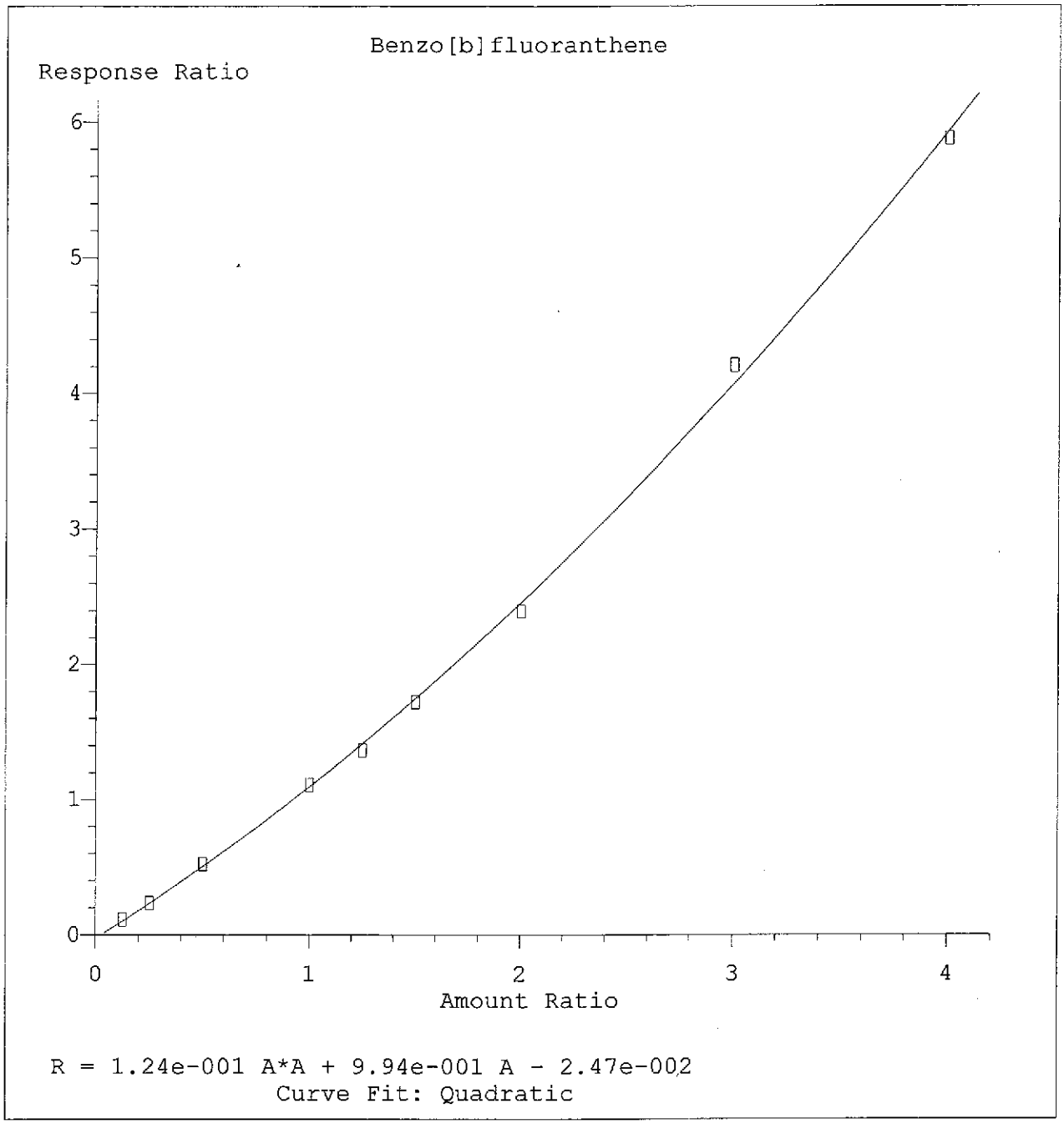
Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009



Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009



Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009



COD = 0,999

Method Name: C:\HPCHEM\1\METHODS\NO09FULL.M
Calibration Table Last Updated: Mon Oct 12 07:33:07 2009

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8270C	**AAB #:**	R18505
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS05_26	**Initial Calibration ID:**	1648
Second Source ID:	ICV-100909	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
1,2,4-Trichlorobenzene	50000	49000	-1.1	
1,2-Dichlorobenzene	50000	50000	0.3	
1,3-Dichlorobenzene	50000	51000	1.1	
1,4-Dichlorobenzene	50000	50000	0.1	
2,4,5-Trichlorophenol	50000	53000	5.3	
2,4,6-Trichlorophenol	50000	52000	3.2	
2,4-Dichlorophenol	50000	52000	3.5	
2,4-Dimethylphenol	50000	45000	-10.2	
2,4-Dinitrophenol	50000	47000	-6.8	
2,4-Dinitrotoluene	50000	50000	0.3	
2,6-Dinitrotoluene	50000	51000	2.3	
2-Chloronaphthalene	50000	50000	0.6	
2-Chlorophenol	50000	51000	2.9	
2-Methylnaphthalene	50000	52000	3.5	
2-Methylphenol	50000	51000	2.5	
2-Nitroaniline	50000	51000	1.8	
2-Nitrophenol	50000	51000	1.9	
3,3´-Dichlorobenzidine	50000	44000	-12.9	
3-Nitroaniline	50000	52000	4.3	
4,6-Dinitro-2-methylphenol	50000	49000	-2.7	
4-Bromophenyl phenyl ether	50000	49000	-1.2	
4-Chloro-3-methylphenol	50000	51000	2.5	
4-Chloroaniline	50000	50000	-0.7	
4-Chlorophenyl phenyl ether	50000	51000	1.5	
4-Methylphenol	50000	52000	3.6	
4-Nitroaniline	50000	51000	2.9	
4-Nitrophenol	50000	48000	-3.1	
Acenaphthene	50000	52000	3.8	
Acenaphthylene	50000	52000	3.2	
Anthracene	50000	52000	3.0	
Benzo[a]anthracene	50000	51000	2.4	
Benzo[a]pyrene	50000	51000	2.4	
Benzo[b]fluoranthene	50000	50000	-0.4	
Benzo[g,h,i]perylene	50000	53000	6.2	
Benzo[k]fluoranthene	50000	55000	9.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8270C	**AAB #:**	R18505
Lab Name:	Life Science Laboratories, In	**Contract Number:**	
Instrument ID:	MS05_26	**Initial Calibration ID:**	1648
Second Source ID:	ICV-100909	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Benzoic acid	50000	45000	-10.1	
Benzyl alcohol	50000	51000	1.9	
bis(2-Chloroethoxy)methane	50000	50000	-1.0	
bis(2-chloroethyl)ether	50000	50000	0.2	
bis(2-chloroisopropyl)ether	50000	49000	-1.2	
bis(2-Ethylhexyl)phthalate	50000	52000	3.8	
Butyl benzyl phthalate	50000	51000	2.8	
Chrysene	50000	47000	-6.9	
Di-n-butyl phthalate	50000	51000	2.2	
Di-n-octyl phthalate	50000	52000	3.4	
Dibenz[a,h]anthracene	50000	53000	6.5	
Dibenzofuran	50000	51000	2.6	
Diethyl phthalate	50000	51000	1.7	
Dimethyl phthalate	50000	51000	1.9	
Fluoranthene	50000	51000	2.8	
Fluorene	50000	53000	6.4	
Hexachlorobenzene	50000	49000	-2.7	
Hexachlorobutadiene	50000	49000	-1.8	
Hexachloroethane	50000	49000	-1.2	
Indeno[1,2,3-cd]pyrene	50000	53000	6.3	
Isophorone	50000	49000	-2.6	
N-Nitroso-di-n-propylamine	50000	49000	-1.1	
N-Nitrosodiphenylamine	50000	50000	-0.3	
Naphthalene	50000	51000	1.4	
Nitrobenzene	50000	48000	-3.5	
Pentachlorophenol	50000	47000	-5.4	
Phenanthrene	50000	52000	3.7	
Phenol	50000	51000	2.9	
Pyrene	50000	53000	5.8	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8270C

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5972 GCMS#5(26)

Initial Calibration ID: 1648

ICV ID: ICV-100909

CCV #1 ID: CC101209A5

CCV #2 ID:

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1611.D
Acq On : 12 Oct 2009 7:28
Sample : CC101209A5
Misc : CCV ,8270WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: MEG
Inst : #5MS26
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	-0.03
2	S	2-Fluorophenol	1.195	1.235	3.3	108	-0.05
3	S	Phenol-d5	1.543	1.585	2.7	110	-0.03
4	MC	Phenol	1.621	1.661	2.5	109	-0.02
5	T	bis(2-Chloroethyl)ether	1.330	1.359	2.2	108	-0.02
6	M	2-Chlorophenol	1.297	1.306	0.7	105	-0.03
7	T	1,3-Dichlorobenzene	1.421	1.439	1.3	106	-0.03
8	MC	1,4-Dichlorobenzene	1.404	1.422	1.3	107	-0.03
9	T	Benzyl alcohol	0.813	0.810	-0.4	105	-0.02
10	T	1,2-Dichlorobenzene	1.272	1.272	0.0	107	-0.03
11	T	2-Methylphenol	1.111	1.131	1.8	107	-0.03
12	T	bis(2-Chloroisopropyl)ether	1.689	1.721	1.9	109	-0.03
13	T	4-Methylphenol	1.214	1.222	0.7	106	-0.01
14	MP	N-Nitroso-di-n-propylamine	0.815	0.814	-0.1	103	0.00
	T	Hexachloroethane	0.626	0.634	1.3	106	-0.03
16	I	Naphthalene-d8	1.000	1.000	0.0	104	-0.03
17	S	Nitrobenzene-d5	0.348	0.350	0.6	104	-0.03
18	T	Nitrobenzene	0.346	0.344	-0.6	103	-0.03
19	T	Isophorone	0.644	0.647	0.5	105	-0.01
20	TC	2-Nitrophenol	0.210	0.211	0.5	101	-0.03
21	T	2,4-Dimethylphenol	0.344	0.349	1.5	106	-0.03
22	T	Benzoic acid	0.155	0.113	-27.1#	85	0.06
23	T	bis(2-Chloroethoxy)methane	0.437	0.437	0.0	103	-0.02
24	TC	2,4-Dichlorophenol	0.296	0.299	1.0	103	-0.03
25	M	1,2,4-Trichlorobenzene	0.325	0.324	-0.3	103	-0.03
26	T	Naphthalene	0.894	0.905	1.2	106	-0.02
27	T	4-Chloroaniline	0.410	0.408	-0.5	105	-0.03
28	TC	Hexachlorobutadiene	0.200	0.192	-4.0	99	-0.03
29	MC	4-Chloro-3-methylphenol	0.291	0.299	2.7	105	-0.03
30	T	2-Methylnaphthalene	0.607	0.616	1.5	105	-0.03
31	I	Acenaphthene-d10	1.000	1.000	0.0	105	-0.03
32	TC	2,4,6-Trichlorophenol	0.360	0.353	-1.9	104	-0.03
33	T	2,4,5-Trichlorophenol	0.366	0.372	1.6	105	-0.03
34	S	2-Fluorobiphenyl	1.177	1.196	1.6	106	-0.03
35	T	2-Chloronaphthalene	1.042	1.051	0.9	104	-0.03
36	T	2-Nitroaniline	0.324	0.330	1.9	105	-0.03
37	T	Dimethyl phthalate	1.250	1.257	0.6	104	-0.01
	T	2,6-Dinitrotoluene	0.321	0.333	3.7	106	-0.01
	T	Acenaphthylene	1.583	1.576	-0.4	103	-0.03

(#) = Out of Range
N1611.D NO09AF40.M Tue Oct 13 09:20:30 2009 P

10/15/09

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1611.D
Acq On : 12 Oct 2009 7:28
Sample : CC101209A5
Misc : CCV ,8270WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: MEG
Inst : #5MS26
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	3-Nitroaniline	0.352	0.357	1.4	102	-0.01
41	TCM	Acenaphthene	0.950	0.948	-0.2	102	-0.03
42	TP	2,4-Dinitrophenol	0.161	0.133	-17.4	96	-0.03
43	MP	4-Nitrophenol	0.137	0.126	-8.0	98	-0.02
44	M	2,4-Dinitrotoluene	0.429	0.427	-0.5	101	-0.02
45	T	Dibenzofuran	1.472	1.481	0.6	105	-0.02
46	T	Diethyl phthalate	1.270	1.308	3.0	104	-0.01
47	T	4-Chlorophenyl phenyl ether	0.589	0.589	0.0	102	-0.02
48	T	Fluorene	1.141	1.152	1.0	104	-0.02
49	T	4-Nitroaniline	0.361	0.358	-0.8	101	0.00
50	S	2,4,6-Tribromophenol	0.232	0.217	-6.5	96	-0.01
51	I	Phenanthrene-d10	1.000	1.000	0.0	102	-0.03
[illegible]	T	4,6-Dinitro-2-methylphenol	0.181	0.173	-4.4	100	0.00
	TC	n-Nitrosodiphenylamine	0.503	0.499	-0.8	99	-0.01
54	T	4-Bromophenyl phenyl ether	0.232	0.225	-3.0	99	-0.03
55	T	Hexachlorobenzene	0.301	0.288	-4.3	98	-0.02
56	MC	Pentachlorophenol	0.105	0.087	-17.1	100	-0.04
57	T	Phenanthrene	0.978	0.978	0.0	100	-0.02
58	T	Anthracene	0.998	0.998	0.0	101	-0.02
59	T	Di-n-butyl phthalate	1.380	1.432	3.8	101	-0.02
60	TC	Fluoranthene	1.102	1.089	-1.2	98	-0.02
61	I	Chrysene-d12	1.000	1.000	0.0	97	-0.01
62	M	Pyrene	0.991	1.031	4.0	100	-0.02
63	S	Terphenyl-d14	0.637	0.660	3.6	97	-0.02
64	T	Butyl benzyl phthalate	0.576	0.616	6.9	102	-0.01
65	T	3,3'-Dichlorobenzidine	0.503	0.503	0.0	93	0.00
66	T	Benzo[a]anthracene	0.976	0.984	0.8	97	-0.02
67	T	bis(2-Ethylhexyl)phthalate	0.790	0.821	3.9	96	-0.01
68	T	Chrysene	0.901	0.932	3.4	99	-0.01
69	TC	Di-n-octyl phthalate	1.429	1.526	6.8	99	-0.01
70	T	Indeno[1,2,3-cd]pyrene	1.013	1.046	3.3	97	0.00
71	I	Perylene-d12	1.000	1.000	0.0	96	-0.03
72	T	Benzo[b]fluoranthene	1.147	1.087	-5.2	95	-0.01
73	T	Benzo[k]fluoranthene	1.016	1.123	10.5	96	0.00
74	TC	Benzo[a]pyrene	1.021	1.059	3.7	97	-0.01
75	T	Dibenz[a,h]anthracene	0.965	1.023	6.0	96	0.00
[illegible]	T	Benzo[g,h,i]perylene	0.912	0.974	6.8	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1611.D
Acq On : 12 Oct 2009 7:28
Sample : CC101209A5
Misc : CCV ,8270WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: MEG
Inst : #5MS26
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	-0.03
2	S	2-Fluorophenol	50.000	51.658	3.3	108	-0.05
3	S	Phenol-d5	50.000	51.352	2.7	110	-0.03
4	MC	Phenol	50.000	51.230	2.5	109	-0.02
5	T	bis(2-Chloroethyl)ether	50.000	51.071	2.1	108	-0.02
6	M	2-Chlorophenol	50.000	50.355	0.7	105	-0.03
7	T	1,3-Dichlorobenzene	50.000	50.641	1.3	106	-0.03
8	MC	1,4-Dichlorobenzene	50.000	50.645	1.3	107	-0.03
9	T	Benzyl alcohol	50.000	49.815	-0.4	105	-0.02
10	T	1,2-Dichlorobenzene	50.000	49.983	-0.0	107	-0.03
11	T	2-Methylphenol	50.000	50.897	1.8	107	-0.03
12	T	bis(2-Chloroisopropyl)ether	50.000	50.949	1.9	109	-0.03
13	T	4-Methylphenol	50.000	50.326	0.7	106	-0.01
14	MP	N-Nitroso-di-n-propylamine	50.000	49.959	-0.1	103	0.00
	T	Hexachloroethane	50.000	50.610	1.2	106	-0.03
16	I	Naphthalene-d8	40.000	40.000	0.0	104	-0.03
17	S	Nitrobenzene-d5	50.000	50.363	0.7	104	-0.03
18	T	Nitrobenzene	50.000	49.667	-0.7	103	-0.03
19	T	Isophorone	50.000	50.225	0.5	105	-0.01
20	TC	2-Nitrophenol	50.000	50.349	0.7	101	-0.03
21	T	2,4-Dimethylphenol	50.000	50.737	1.5	106	-0.03
22	T	Benzoic acid	50.000	41.703	-16.6	85	0.06
23	T	bis(2-Chloroethoxy)methane	50.000	49.976	-0.0	103	-0.02
24	TC	2,4-Dichlorophenol	50.000	50.404	0.8	103	-0.03
25	M	1,2,4-Trichlorobenzene	50.000	49.817	-0.4	103	-0.03
26	T	Naphthalene	50.000	50.581	1.2	106	-0.02
27	T	4-Chloroaniline	50.000	49.789	-0.4	105	-0.03
28	TC	Hexachlorobutadiene	50.000	47.819	-4.4	99	-0.03
29	MC	4-Chloro-3-methylphenol	50.000	51.407	2.8	105	-0.03
30	T	2-Methylnaphthalene	50.000	50.710	1.4	105	-0.03
31	I	Acenaphthene-d10	40.000	40.000	0.0	105	-0.03
32	TC	2,4,6-Trichlorophenol	50.000	49.086	-1.8	104	-0.03
33	T	2,4,5-Trichlorophenol	50.000	50.778	1.6	105	-0.03
34	S	2-Fluorobiphenyl	50.000	50.797	1.6	106	-0.03
35	T	2-Chloronaphthalene	50.000	50.410	0.8	104	-0.03
36	T	2-Nitroaniline	50.000	51.029	2.1	105	-0.03
37	T	Dimethyl phthalate	50.000	50.258	0.5	104	-0.01
38	T	2,6-Dinitrotoluene	50.000	51.920	3.8	106	-0.01
	T	Acenaphthylene	50.000	49.778	-0.4	103	-0.03

(#) = Out of Range

10/15/09

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1611.D
Acq On : 12 Oct 2009 7:28
Sample : CC101209A5
Misc : CCV ,8270WAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: MEG
Inst : #5MS26
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Mon Oct 12 07:33:07 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	T	3-Nitroaniline	50.000	50.737	1.5	102	-0.01
41	TCM	Acenaphthene	50.000	49.889	-0.2	102	-0.03
42	TP	2,4-Dinitrophenol	50.000	44.753	-10.5	96	-0.03
43	MP	4-Nitrophenol	50.000	45.937	-8.1	98	-0.02
44	M	2,4-Dinitrotoluene	50.000	49.756	-0.5	101	-0.02
45	T	Dibenzofuran	50.000	50.316	0.6	105	-0.02
46	T	Diethyl phthalate	50.000	51.501	3.0	104	-0.01
47	T	4-Chlorophenyl phenyl ether	50.000	50.003	0.0	102	-0.02
48	T	Fluorene	50.000	50.486	1.0	104	-0.02
49	T	4-Nitroaniline	50.000	49.543	-0.9	101	0.00
50	S	2,4,6-Tribromophenol	50.000	43.901	-12.2	96	-0.01
51	I	Phenanthrene-d10	40.000	40.000	0.0	102	-0.03
[illegible]	T	4,6-Dinitro-2-methylphenol	50.000	47.759	-4.5	100	0.00
	TC	n-Nitrosodiphenylamine	50.000	49.599	-0.8	99	-0.01
54	T	4-Bromophenyl phenyl ether	50.000	48.514	-3.0	99	-0.03
55	T	Hexachlorobenzene	50.000	47.844	-4.3	98	-0.02
56	MC	Pentachlorophenol	50.000	46.339	-7.3	100	-0.04
57	T	Phenanthrene	50.000	50.036	0.1	100	-0.02
58	T	Anthracene	50.000	50.001	0.0	101	-0.02
59	T	Di-n-butyl phthalate	50.000	51.891	3.8	101	-0.02
60	TC	Fluoranthene	50.000	49.420	-1.2	98	-0.02
61	I	Chrysene-d12	40.000	40.000	0.0	97	-0.01
62	M	Pyrene	50.000	52.046	4.1	100	-0.02
63	S	Terphenyl-d14	50.000	51.774	3.5	97	-0.02
64	T	Butyl benzyl phthalate	50.000	53.513	7.0	102	-0.01
65	T	3,3'-Dichlorobenzidine	50.000	49.986	-0.0	93	0.00
66	T	Benzo[a]anthracene	50.000	50.415	0.8	97	-0.02
67	T	bis(2-Ethylhexyl)phthalate	50.000	51.983	4.0	96	-0.01
68	T	Chrysene	50.000	51.754	3.5	99	-0.01
69	TC	Di-n-octyl phthalate	50.000	53.383	6.8	99	-0.01
70	T	Indeno[1,2,3-cd]pyrene	50.000	51.633	3.3	97	0.00
71	I	Perylene-d12	40.000	40.000	0.0	96	-0.03
72	T	Benzo[b]fluoranthene	50.000	48.387	-3.2	95	-0.01
73	T	Benzo[k]fluoranthene	50.000	55.304	10.6	96	0.00
74	TC	Benzo[a]pyrene	50.000	51.862	3.7	97	-0.01
75	T	Dibenz[a,h]anthracene	50.000	52.998	6.0	96	0.00
[illegible]	T	Benzo[g,h,i]perylene	50.000	53.423	6.8	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method: 8270C

AAB #:

Lab Name: Life Science Laboratories, Inc.

Contract #:

Instrument ID: HP5972 GCMS#5(26)

Initial Calibration ID: 1648

ICV ID: ICV-100909

CCV #1 ID: CC101309A5

CCV #2 ID:

SEE ATTACHED

Comments:

AFCEE FORM O-5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1630.D
Acq On : 13 Oct 2009 8:03
Sample : CC101309A5
Misc : CCV ,8270SAF_40CAL,
MS Integration Params: RTEINT.P

Vial: 2
Operator: MEG
Inst : #5MS26
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Tue Oct 13 09:21:12 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	0.02
2	S	2-Fluorophenol	1.195	1.223	2.3	136	0.02
3	S	Phenol-d5	1.543	1.616	4.7	142	0.02
4	MC	Phenol	1.621	1.678	3.5	139	0.02
5	T	bis(2-Chloroethyl)ether	1.330	1.366	2.7	138	0.02
6	M	2-Chlorophenol	1.297	1.308	0.8	133	0.02
7	T	1,3-Dichlorobenzene	1.421	1.417	-0.3	133	0.02
8	MC	1,4-Dichlorobenzene	1.404	1.419	1.1	135	0.02
9	T	Benzyl alcohol	0.813	0.831	2.2	136	0.02
10	T	1,2-Dichlorobenzene	1.272	1.257	-1.2	134	0.02
11	T	2-Methylphenol	1.111	1.119	0.7	134	0.02
12	T	bis(2-Chloroisopropyl)ether	1.689	1.625	-3.8	130	0.02
13	T	4-Methylphenol	1.214	1.219	0.4	134	0.02
14	MP	N-Nitroso-di-n-propylamine	0.815	0.818	0.4	132	0.02
15	T	Hexachloroethane	0.626	0.629	0.5	133	0.02
16	I	Naphthalene-d8	1.000	1.000	0.0	131	0.02
17	S	Nitrobenzene-d5	0.348	0.347	-0.3	130	0.02
18	T	Nitrobenzene	0.346	0.343	-0.9	129	0.02
19	T	Isophorone	0.644	0.648	0.6	132	0.02
20	TC	2-Nitrophenol	0.210	0.217	3.3	131	0.02
21	T	2,4-Dimethylphenol	0.344	0.337	-2.0	128	0.03
22	T	Benzoic acid	0.155	0.145	-6.5	137	0.04
23	T	bis(2-Chloroethoxy)methane	0.437	0.441	0.9	131	0.02
24	TC	2,4-Dichlorophenol	0.296	0.306	3.4	133	0.02
25	M	1,2,4-Trichlorobenzene	0.325	0.326	0.3	130	0.02
26	T	Naphthalene	0.894	0.897	0.3	132	0.02
27	T	4-Chloroaniline	0.410	0.412	0.5	133	0.02
28	TC	Hexachlorobutadiene	0.200	0.197	-1.5	128	0.02
29	MC	4-Chloro-3-methylphenol	0.291	0.306	5.2	135	0.02
30	T	2-Methylnaphthalene	0.607	0.610	0.5	131	0.02
31	I	Acenaphthene-d10	1.000	1.000	0.0	132	0.02
32	TC	2,4,6-Trichlorophenol	0.360	0.375	4.2	138	0.02
33	T	2,4,5-Trichlorophenol	0.366	0.393	7.4	139	0.02
34	S	2-Fluorobiphenyl	1.177	1.205	2.4	134	0.02
35	T	2-Chloronaphthalene	1.042	1.059	1.6	131	0.02
36	T	2-Nitroaniline	0.324	0.329	1.5	131	0.02
37	T	Dimethyl phthalate	1.250	1.268	1.4	131	0.02
38	T	2,6-Dinitrotoluene	0.321	0.346	7.8	138	0.02
39	T	Acenaphthylene	1.583	1.618	2.2	133	0.02

(#) = Out of Range

10/14/09

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1630.D Vial: 2
Acq On : 13 Oct 2009 8:03 Operator: MEG
Sample : CC101309A5 Inst : #5MS26
Misc : CCV ,8270SAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Tue Oct 13 09:21:12 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	3-Nitroaniline	0.352	0.378	7.4	135	0.02
41	TCM	Acenaphthene	0.950	0.964	1.5	130	0.02
42	TP	2,4-Dinitrophenol	0.161	0.135	-16.1	122	0.02
43	MP	4-Nitrophenol	0.137	0.135	-1.5	133	0.02
44	M	2,4-Dinitrotoluene	0.429	0.440	2.6	130	0.02
45	T	Dibenzofuran	1.472	1.500	1.9	133	0.02
46	T	Diethyl phthalate	1.270	1.334	5.0	133	0.02
47	T	4-Chlorophenyl phenyl ether	0.589	0.598	1.5	131	0.02
48	T	Fluorene	1.141	1.175	3.0	133	0.02
49	T	4-Nitroaniline	0.361	0.378	4.7	133	0.02
50	S	2,4,6-Tribromophenol	0.232	0.229	-1.3	127	0.02
51	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.02
52	T	4,6-Dinitro-2-methylphenol	0.181	0.165	-8.8	121	0.02
53	TC	n-Nitrosodiphenylamine	0.503	0.506	0.6	129	0.02
54	T	4-Bromophenyl phenyl ether	0.232	0.225	-3.0	126	0.02
55	T	Hexachlorobenzene	0.301	0.294	-2.3	128	0.02
56	MC	Pentachlorophenol	0.105	0.096	-8.6	141	0.02
57	T	Phenanthrene	0.978	0.986	0.8	129	0.02
58	T	Anthracene	0.998	1.010	1.2	130	0.02
59	T	Di-n-butyl phthalate	1.380	1.400	1.4	126	0.02
60	TC	Fluoranthene	1.102	1.100	-0.2	127	0.02
61	I	Chrysene-d12	1.000	1.000	0.0	119	0.02
62	M	Pyrene	0.991	1.063	7.3	127	0.02
63	S	Terphenyl-d14	0.637	0.675	6.0	122	0.02
64	T	Butyl benzyl phthalate	0.576	0.622	8.0	127	0.02
65	T	3,3'-Dichlorobenzidine	0.503	0.538	7.0	123	0.02
66	T	Benzo[a]anthracene	0.976	0.998	2.3	121	0.02
67	T	bis(2-Ethylhexyl)phthalate	0.790	0.775	-1.9	111	0.02
68	T	Chrysene	0.901	0.926	2.8	121	0.02
69	TC	Di-n-octyl phthalate	1.429	1.499	4.9	119	0.02
70	T	Indeno[1,2,3-cd]pyrene	1.013	1.102	8.8	126	0.02
71	I	Perylene-d12	1.000	1.000	0.0	119	0.02
72	T	Benzo[b]fluoranthene	1.147	1.113	-3.0	121	0.02
73	T	Benzo[k]fluoranthene	1.016	1.118	10.0	119	0.02
74	TC	Benzo[a]pyrene	1.021	1.060	3.8	121	0.02
75	T	Dibenz[a,h]anthracene	0.965	1.063	10.2	124	0.04
76	T	Benzo[g,h,i]perylene	0.912	1.007	10.4	129	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1630.D Vial: 2
Acq On : 13 Oct 2009 8:03 Operator: MEG
Sample : CC101309A5 Inst : #5MS26
Misc : CCV ,8270SAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Tue Oct 13 09:21:12 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	135	0.02
2	S	2-Fluorophenol	50.000	51.186	2.4	136	0.02
3	S	Phenol-d5	50.000	52.352	4.7	142	0.02
4	MC	Phenol	50.000	51.778	3.6	139	0.02
5	T	bis(2-Chloroethyl)ether	50.000	51.363	2.7	138	0.02
6	M	2-Chlorophenol	50.000	50.405	0.8	133	0.02
7	T	1,3-Dichlorobenzene	50.000	49.892	-0.2	133	0.02
8	MC	1,4-Dichlorobenzene	50.000	50.537	1.1	135	0.02
9	T	Benzyl alcohol	50.000	51.095	2.2	136	0.02
10	T	1,2-Dichlorobenzene	50.000	49.388	-1.2	134	0.02
11	T	2-Methylphenol	50.000	50.359	0.7	134	0.02
12	T	bis(2-Chloroisopropyl)ether	50.000	48.114	-3.8	130	0.02
13	T	4-Methylphenol	50.000	50.195	0.4	134	0.02
14	MP	N-Nitroso-di-n-propylamine	50.000	50.172	0.3	132	0.02
15	T	Hexachloroethane	50.000	50.234	0.5	133	0.02
16	I	Naphthalene-d8	40.000	40.000	0.0	131	0.02
17	S	Nitrobenzene-d5	50.000	49.876	-0.2	130	0.02
18	T	Nitrobenzene	50.000	49.648	-0.7	129	0.02
19	T	Isophorone	50.000	50.285	0.6	132	0.02
20	TC	2-Nitrophenol	50.000	51.703	3.4	131	0.02
21	T	2,4-Dimethylphenol	50.000	49.035	-1.9	128	0.03
22	T	Benzoic acid	50.000	48.507	-3.0	137	0.04
23	T	bis(2-Chloroethoxy)methane	50.000	50.472	0.9	131	0.02
24	TC	2,4-Dichlorophenol	50.000	51.730	3.5	133	0.02
25	M	1,2,4-Trichlorobenzene	50.000	50.148	0.3	130	0.02
26	T	Naphthalene	50.000	50.148	0.3	132	0.02
27	T	4-Chloroaniline	50.000	50.206	0.4	133	0.02
28	TC	Hexachlorobutadiene	50.000	49.165	-1.7	128	0.02
29	MC	4-Chloro-3-methylphenol	50.000	52.611	5.2	135	0.02
30	T	2-Methylnaphthalene	50.000	50.250	0.5	131	0.02
31	I	Acenaphthene-d10	40.000	40.000	0.0	132	0.02
32	TC	2,4,6-Trichlorophenol	50.000	52.072	4.1	138	0.02
33	T	2,4,5-Trichlorophenol	50.000	53.660	7.3	139	0.02
34	S	2-Fluorobiphenyl	50.000	51.189	2.4	134	0.02
35	T	2-Chloronaphthalene	50.000	50.801	1.6	131	0.02
36	T	2-Nitroaniline	50.000	50.837	1.7	131	0.02
37	T	Dimethyl phthalate	50.000	50.719	1.4	131	0.02
38	T	2,6-Dinitrotoluene	50.000	53.946	7.9	138	0.02
39	T	Acenaphthylene	50.000	51.102	2.2	133	0.02

(#) = Out of Range
N1630.D NO09AF40.M Wed Oct 14 07:16:22 2009 Pa

Mal 10/14/09

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\N1630.D Vial: 2
Acq On : 13 Oct 2009 8:03 Operator: MEG
Sample : CC101309A5 Inst : #5MS26
Misc : CCV ,8270SAF_40CAL, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\NO09AF40.M (RTE Integrator)
Title : BNA's w/J&W DB-5MS .25mm x 30m 0.5df
Last Update : Tue Oct 13 09:21:12 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	T	3-Nitroaniline	50.000	53.687	7.4	135	0.02
41	TCM	Acenaphthene	50.000	50.719	1.4	130	0.02
42	TP	2,4-Dinitrophenol	50.000	45.014	-10.0	122	0.02
43	MP	4-Nitrophenol	50.000	49.342	-1.3	133	0.02
44	M	2,4-Dinitrotoluene	50.000	51.313	2.6	130	0.02
45	T	Dibenzofuran	50.000	50.962	1.9	133	0.02
46	T	Diethyl phthalate	50.000	52.499	5.0	133	0.02
47	T	4-Chlorophenyl phenyl ether	50.000	50.758	1.5	131	0.02
48	T	Fluorene	50.000	51.474	2.9	133	0.02
49	T	4-Nitroaniline	50.000	52.331	4.7	133	0.02
50	S	2,4,6-Tribromophenol	50.000	46.089	-7.8	127	0.02
51	I	Phenanthrene-d10	40.000	40.000	0.0	130	0.02
52	T	4,6-Dinitro-2-methylphenol	50.000	45.534	-8.9	121	0.02
53	TC	n-Nitrosodiphenylamine	50.000	50.305	0.6	129	0.02
54	T	4-Bromophenyl phenyl ether	50.000	48.579	-2.8	126	0.02
55	T	Hexachlorobenzene	50.000	48.799	-2.4	128	0.02
56	MC	Pentachlorophenol	50.000	49.105	-1.8	141	0.02
57	T	Phenanthrene	50.000	50.437	0.9	129	0.02
58	T	Anthracene	50.000	50.639	1.3	130	0.02
59	T	Di-n-butyl phthalate	50.000	50.737	1.5	126	0.02
60	TC	Fluoranthene	50.000	49.890	-0.2	127	0.02
61	I	Chrysene-d12	40.000	40.000	0.0	119	0.02
62	M	Pyrene	50.000	53.662	7.3	127	0.02
63	S	Terphenyl-d14	50.000	52.923	5.8	122	0.02
64	T	Butyl benzyl phthalate	50.000	54.032	8.1	127	0.02
65	T	3,3'-Dichlorobenzidine	50.000	53.432	6.9	123	0.02
66	T	Benzo[a]anthracene	50.000	51.099	2.2	121	0.02
67	T	bis(2-Ethylhexyl)phthalate	50.000	49.078	-1.8	111	0.02
68	T	Chrysene	50.000	51.394	2.8	121	0.02
69	TC	Di-n-octyl phthalate	50.000	52.443	4.9	119	0.02
70	T	Indeno[1,2,3-cd]pyrene	50.000	54.389	8.8	126	0.02
71	I	Perylene-d12	40.000	40.000	0.0	119	0.02
72	T	Benzo[b]fluoranthene	50.000	49.389	-1.2	121	0.02
73	T	Benzo[k]fluoranthene	50.000	55.045	10.1	119	0.02
74	TC	Benzo[a]pyrene	50.000	51.890	3.8	121	0.02
75	T	Dibenz[a,h]anthracene	50.000	55.032	10.1	124	0.04
76	T	Benzo[g,h,i]perylene	50.000	55.211	10.4	129	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8270C	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10101
Initial Calibration ID:	1648	**File ID:**	N1615.D

Analyte	Method Blank	RL	Q
1,2,4-Trichlorobenzene	0.013	0.70	U
1,2-Dichlorobenzene	0.013	0.70	U
1,3-Dichlorobenzene	0.013	0.70	U
1,4-Dichlorobenzene	0.013	0.70	U
2,4,5-Trichlorophenol	0.040	3.3	U
2,4,6-Trichlorophenol	0.040	0.30	U
2,4-Dichlorophenol	0.013	0.30	U
2,4-Dimethylphenol	0.040	0.30	U
2,4-Dinitrophenol	0.66	3.3	U
2,4-Dinitrotoluene	0.013	0.70	U
2,6-Dinitrotoluene	0.013	0.70	U
2-Chloronaphthalene	0.013	0.70	U
2-Chlorophenol	0.013	0.30	U
2-Methylnaphthalene	0.013	0.70	U
2-Methylphenol	0.013	0.30	U
2-Nitroaniline	0.013	3.3	U
2-Nitrophenol	0.013	0.30	U
3,3'-Dichlorobenzidine	0.040	1.3	U
3-Nitroaniline	0.040	3.3	U
4,6-Dinitro-2-methylphenol	0.17	3.3	U
4-Bromophenyl phenyl ether	0.013	0.70	U
4-Chloro-3-methylphenol	0.013	1.3	U
4-Chloroaniline	0.013	1.3	U
4-Chlorophenyl phenyl ether	0.013	0.70	U
4-Methylphenol	0.040	2.0	U
4-Nitroaniline	0.013	3.3	U
4-Nitrophenol	0.17	1.6	U
Acenaphthene	0.013	0.70	U
Acenaphthylene	0.013	0.70	U
Anthracene	0.013	0.70	U
Benzo[a]anthracene	0.013	0.70	U
Benzo[a]pyrene	0.013	0.70	U
Benzo[b]fluoranthene	0.013	0.70	U
Benzo[g,h,i]perylene	0.040	0.70	U
Benzo[k]fluoranthene	0.013	0.70	U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8270C	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10101
Initial Calibration ID:	1648	**File ID:**	N1615.D

Analyte	Method Blank	RL	Q
Benzoic acid	0.17	5.0	U
Benzyl alcohol	0.013	1.3	U
bis(2-Chloroethoxy)methane	0.013	0.70	U
bis(2-chloroethyl)ether	0.013	0.70	U
bis(2-chloroisopropyl)ether	0.013	0.70	U
bis(2-Ethylhexyl)phthalate	0.013	0.70	U
Butyl benzyl phthalate	0.013	0.70	U
Chrysene	0.013	0.70	U
Di-n-butyl phthalate	0.013	0.70	U
Di-n-octyl phthalate	0.013	0.70	U
Dibenz[a,h]anthracene	0.040	0.70	U
Dibenzofuran	0.013	0.70	U
Diethyl phthalate	0.013	0.70	U
Dimethyl phthalate	0.013	0.70	U
Fluoranthene	0.013	0.70	U
Fluorene	0.013	0.70	U
Hexachlorobenzene	0.013	0.70	U
Hexachlorobutadiene	0.040	0.70	U
Hexachloroethane	0.040	0.70	U
Indeno[1,2,3-cd]pyrene	0.040	0.70	U
Isophorone	0.013	0.70	U
N-Nitroso-di-n-propylamine	0.013	0.70	U
N-Nitrosodiphenylamine	0.013	0.70	U
Naphthalene	0.013	0.70	U
Nitrobenzene	0.013	0.70	U
Pentachlorophenol	0.33	3.3	U
Phenanthrene	0.013	0.70	U
Phenol	0.013	0.30	U
Pyrene	0.013	0.70	U

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	71	36 - 126	
2-Fluorobiphenyl	91	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	85	37 - 120	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8270C	**AAB #:**	10101
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10101
Initial Calibration ID:	1648	**File ID:**	N1615.D

Surrogate	Recovery	Control Limits	Qualifier
Phenol-d5	86	40 - 120	
Terphenyl-d14	108	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	86142	61370 - 245480	
Acenaphthene-d10	172980	121827 - 487308	
Chrysene-d12	289011	233714 - 934858	
Naphthalene-d8	317143	223871 - 895484	
Perylene-d12	253535	208094 - 832374	
Phenanthrene-d10	279532	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-10101 **Initial Calibration ID:** 1648

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** N1616.D

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.667	1.4	87	44 - 125	
1,2-Dichlorobenzene	1.667	1.4	86	45 - 125	
1,3-Dichlorobenzene	1.667	1.4	83	39 - 125	
1,4-Dichlorobenzene	1.667	1.4	84	35 - 125	
2,4,5-Trichlorophenol	1.667	1.5	92	49 - 125	
2,4,6-Trichlorophenol	1.667	1.5	89	43 - 125	
2,4-Dichlorophenol	1.667	1.6	93	45 - 125	
2,4-Dimethylphenol	1.667	1.5	91	32 - 125	
2,4-Dinitrophenol	1.667	0.95	57	25 - 132	
2,4-Dinitrotoluene	1.667	1.6	94	48 - 125	
2,6-Dinitrotoluene	1.667	1.5	93	48 - 125	
2-Chloronaphthalene	1.667	1.5	88	45 - 125	
2-Chlorophenol	1.667	1.5	93	44 - 125	
2-Methylnaphthalene	1.667	1.6	93	47 - 125	
2-Methylphenol	1.667	1.6	93	40 - 125	
2-Nitroaniline	1.667	1.5	93	44 - 125	
2-Nitrophenol	1.667	1.5	89	42 - 125	
3,3´-Dichlorobenzidine	1.667	0.96	58	25 - 128	
3-Nitroaniline	1.667	1.1	67	27 - 125	
4,6-Dinitro-2-methylphenol	1.667	1.2	72	29 - 137	
4-Bromophenyl phenyl ether	1.667	1.4	87	46 - 125	
4-Chloro-3-methylphenol	1.667	1.6	95	46 - 125	
4-Chloroaniline	1.667	0.90	54	25 - 125	
4-Chlorophenyl phenyl ether	1.667	1.5	92	47 - 125	
4-Methylphenol	1.667	1.6	95	41 - 125	
4-Nitroaniline	1.667	1.5	92	34 - 125	
4-Nitrophenol	1.667	1.7	99	25 - 138	
Acenaphthene	1.667	1.5	92	46 - 125	
Acenaphthylene	1.667	1.5	91	44 - 125	
Anthracene	1.667	1.6	97	53 - 125	
Benzo[a]anthracene	1.667	1.6	98	52 - 125	
Benzo[a]pyrene	1.667	1.6	97	50 - 125	
Benzo[b]fluoranthene	1.667	1.6	95	45 - 125	
Benzo[g,h,i]perylene	1.667	1.7	103	38 - 126	
Benzo[k]fluoranthene	1.667	1.7	100	45 - 125	
Benzoic acid	1.667	0.96	58	25 - 125	
Benzyl alcohol	1.667	1.5	92	25 - 125	
bis(2-Chloroethoxy)methane	1.667	1.5	88	43 - 125	
bis(2-chloroethyl)ether	1.667	1.4	87	38 - 125	
bis(2-chloroisopropyl)ether	1.667	1.5	88	25 - 125	
bis(2-Ethylhexyl)phthalate	1.667	1.8	105	47 - 127	
Butyl benzyl phthalate	1.667	1.7	102	49 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-10101 **Initial Calibration ID:** 1648

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** N1616.D

Analyte	Expected	Found	%R	Control Limits	Q
Chrysene	1.667	1.6	97	53 - 125	
Di-n-butyl phthalate	1.667	1.6	98	56 - 125	
Di-n-octyl phthalate	1.667	1.7	104	41 - 132	
Dibenz[a,h]anthracene	1.667	1.7	102	41 - 125	
Dibenzofuran	1.667	1.5	93	51 - 125	
Diethyl phthalate	1.667	1.6	95	50 - 125	
Dimethyl phthalate	1.667	1.5	92	49 - 125	
Fluoranthene	1.667	1.6	96	54 - 125	
Fluorene	1.667	1.6	96	49 - 125	
Hexachlorobenzene	1.667	1.5	87	47 - 125	
Hexachlorobutadiene	1.667	1.4	82	40 - 125	
Hexachloroethane	1.667	1.4	85	34 - 125	
Indeno[1,2,3-cd]pyrene	1.667	1.7	105	38 - 125	
Isophorone	1.667	1.4	85	43 - 125	
N-Nitroso-di-n-propylamine	1.667	1.5	88	40 - 125	
N-Nitrosodiphenylamine	1.667	1.6	94	49 - 125	
Naphthalene	1.667	1.5	89	40 - 125	
Nitrobenzene	1.667	1.4	86	41 - 125	
Pentachlorophenol	1.667	1.4	86	25 - 125	
Phenanthrene	1.667	1.6	96	50 - 125	
Phenol	1.667	1.5	92	39 - 125	
Pyrene	1.667	1.7	103	46 - 125	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	93	36 - 126	
2-Fluorobiphenyl	90	43 - 120	
2-Fluorophenol	89	37 - 120	
Nitrobenzene-d5	86	37 - 120	
Phenol-d5	90	40 - 120	
Terphenyl-d14	103	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	112569	61370 - 245480	
Acenaphthene-d10	230968	121827 - 487308	
Chrysene-d12	413104	233714 - 934858	
Naphthalene-d8	417767	223871 - 895484	
Perylene-d12	380874	208094 - 832374	
Phenanthrene-d10	381988	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-10101 **Initial Calibration ID:** 1648

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** N1617.D

Analyte	Expected	Found	%R	Control Limits	Q
1,2,4-Trichlorobenzene	1.667	1.4	84	44 - 125	
1,2-Dichlorobenzene	1.667	1.4	84	45 - 125	
1,3-Dichlorobenzene	1.667	1.3	80	39 - 125	
1,4-Dichlorobenzene	1.667	1.4	82	35 - 125	
2,4,5-Trichlorophenol	1.667	1.6	96	49 - 125	
2,4,6-Trichlorophenol	1.667	1.5	90	43 - 125	
2,4-Dichlorophenol	1.667	1.5	93	45 - 125	
2,4-Dimethylphenol	1.667	1.5	92	32 - 125	
2,4-Dinitrophenol	1.667	0.76	46	25 - 132	
2,4-Dinitrotoluene	1.667	1.6	94	48 - 125	
2,6-Dinitrotoluene	1.667	1.6	94	48 - 125	
2-Chloronaphthalene	1.667	1.4	87	45 - 125	
2-Chlorophenol	1.667	1.5	90	44 - 125	
2-Methylnaphthalene	1.667	1.5	92	47 - 125	
2-Methylphenol	1.667	1.5	92	40 - 125	
2-Nitroaniline	1.667	1.6	94	44 - 125	
2-Nitrophenol	1.667	1.5	89	42 - 125	
3,3'-Dichlorobenzidine	1.667	0.94	56	25 - 128	
3-Nitroaniline	1.667	1.1	66	27 - 125	
4,6-Dinitro-2-methylphenol	1.667	0.93	56	29 - 137	
4-Bromophenyl phenyl ether	1.667	1.5	88	46 - 125	
4-Chloro-3-methylphenol	1.667	1.6	98	46 - 125	
4-Chloroaniline	1.667	0.83	50	25 - 125	
4-Chlorophenyl phenyl ether	1.667	1.5	92	47 - 125	
4-Methylphenol	1.667	1.5	93	41 - 125	
4-Nitroaniline	1.667	1.5	92	34 - 125	
4-Nitrophenol	1.667	1.7	102	25 - 138	
Acenaphthene	1.667	1.5	93	46 - 125	
Acenaphthylene	1.667	1.5	91	44 - 125	
Anthracene	1.667	1.6	96	53 - 125	
Benzo[a]anthracene	1.667	1.7	102	52 - 125	
Benzo[a]pyrene	1.667	1.6	98	50 - 125	
Benzo[b]fluoranthene	1.667	1.6	97	45 - 125	
Benzo[g,h,i]perylene	1.667	1.7	102	38 - 126	
Benzo[k]fluoranthene	1.667	1.7	104	45 - 125	
Benzoic acid	1.667	0.75	45	25 - 125	
Benzyl alcohol	1.667	1.5	90	25 - 125	
bis(2-Chloroethoxy)methane	1.667	1.4	86	43 - 125	
bis(2-chloroethyl)ether	1.667	1.4	85	38 - 125	
bis(2-chloroisopropyl)ether	1.667	1.4	86	25 - 125	
bis(2-Ethylhexyl)phthalate	1.667	1.8	106	47 - 127	
Butyl benzyl phthalate	1.667	1.7	105	49 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-10101 **Initial Calibration ID:** 1648

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** N1617.D

Analyte	Expected	Found	%R	Control Limits	Q
Chrysene	1.667	1.6	99	53 - 125	
Di-n-butyl phthalate	1.667	1.6	98	56 - 125	
Di-n-octyl phthalate	1.667	1.8	106	41 - 132	
Dibenz[a,h]anthracene	1.667	1.7	102	41 - 125	
Dibenzofuran	1.667	1.5	92	51 - 125	
Diethyl phthalate	1.667	1.6	98	50 - 125	
Dimethyl phthalate	1.667	1.6	94	49 - 125	
Fluoranthene	1.667	1.6	98	54 - 125	
Fluorene	1.667	1.6	95	49 - 125	
Hexachlorobenzene	1.667	1.5	89	47 - 125	
Hexachlorobutadiene	1.667	1.4	83	40 - 125	
Hexachloroethane	1.667	1.4	82	34 - 125	
Indeno[1,2,3-cd]pyrene	1.667	1.7	104	38 - 125	
Isophorone	1.667	1.4	83	43 - 125	
N-Nitroso-di-n-propylamine	1.667	1.4	86	40 - 125	
N-Nitrosodiphenylamine	1.667	1.6	95	49 - 125	
Naphthalene	1.667	1.5	88	40 - 125	
Nitrobenzene	1.667	1.4	83	41 - 125	
Pentachlorophenol	1.667	1.4	85	25 - 125	
Phenanthrene	1.667	1.6	95	50 - 125	
Phenol	1.667	1.5	89	39 - 125	
Pyrene	1.667	1.7	105	46 - 125	

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	95	36 - 126	
2-Fluorobiphenyl	87	43 - 120	
2-Fluorophenol	85	37 - 120	
Nitrobenzene-d5	85	37 - 120	
Phenol-d5	88	40 - 120	
Terphenyl-d14	102	32 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	120444	61370 - 245480	
Acenaphthene-d10	243925	121827 - 487308	
Chrysene-d12	428834	233714 - 934858	
Naphthalene-d8	441936	223871 - 895484	
Perylene-d12	394253	208094 - 832374	
Phenanthrene-d10	407405	204419 - 817676	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: LCSD-10101 **MS ID:** LCS-10101 **MSD ID:** LCSD-10101

Calibration ID: 1648

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
1,2,4-Trichlorobenzene		1.7	1.4	87	1.4	84	3	44 - 125	30	
1,2-Dichlorobenzene		1.7	1.4	86	1.4	84	3	45 - 125	30	
1,3-Dichlorobenzene		1.7	1.4	83	1.3	80	3	39 - 125	30	
1,4-Dichlorobenzene		1.7	1.4	84	1.4	82	3	35 - 125	30	
2,4,5-Trichlorophenol		1.7	1.5	92	1.6	96	4	49 - 125	30	
2,4,6-Trichlorophenol		1.7	1.5	89	1.5	90	1	43 - 125	30	
2,4-Dichlorophenol		1.7	1.6	93	1.5	93	1	45 - 125	30	
2,4-Dimethylphenol		1.7	1.5	91	1.5	92	1	32 - 125	30	
2,4-Dinitrophenol		1.7	0.95	57	0.76	46	22	25 - 132	30	
2,4-Dinitrotoluene		1.7	1.6	94	1.6	94	0	48 - 125	30	
2,6-Dinitrotoluene		1.7	1.5	93	1.6	94	2	48 - 125	30	
2-Chloronaphthalene		1.7	1.5	88	1.4	87	1	45 - 125	30	
2-Chlorophenol		1.7	1.5	93	1.5	90	3	44 - 125	30	
2-Methylnaphthalene		1.7	1.6	93	1.5	92	2	47 - 125	30	
2-Methylphenol		1.7	1.6	93	1.5	92	1	40 - 125	30	
2-Nitroaniline		1.7	1.5	93	1.6	94	2	44 - 125	30	
2-Nitrophenol		1.7	1.5	89	1.5	89	0	42 - 125	30	
3,3'-Dichlorobenzidine		1.7	0.96	58	0.94	56	3	25 - 128	30	
3-Nitroaniline		1.7	1.1	67	1.1	66	1	27 - 125	30	
4,6-Dinitro-2-methylphenol		1.7	1.2	72	0.93	56	26	29 - 137	30	
4-Bromophenyl phenyl ether		1.7	1.4	87	1.5	88	1	46 - 125	30	
4-Chloro-3-methylphenol		1.7	1.6	95	1.6	98	3	46 - 125	30	
4-Chloroaniline		1.7	0.90	54	0.83	50	8	25 - 125	30	
4-Chlorophenyl phenyl ether		1.7	1.5	92	1.5	92	0	47 - 125	30	
4-Methylphenol		1.7	1.6	95	1.5	93	3	41 - 125	30	
4-Nitroaniline		1.7	1.5	92	1.5	92	1	34 - 125	30	
4-Nitrophenol		1.7	1.7	99	1.7	102	3	25 - 138	30	
Acenaphthene		1.7	1.5	92	1.5	93	1	46 - 125	30	
Acenaphthylene		1.7	1.5	91	1.5	91	1	44 - 125	30	
Anthracene		1.7	1.6	97	1.6	96	1	53 - 125	30	
Benzo[a]anthracene		1.7	1.6	98	1.7	102	4	52 - 125	30	
Benzo[a]pyrene		1.7	1.6	97	1.6	98	1	50 - 125	30	
Benzo[b]fluoranthene		1.7	1.6	95	1.6	97	2	45 - 125	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: LCSD-10101 **MS ID:** LCS-10101 **MSD ID:** LCSD-10101

Calibration ID: 1648

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Benzo[g,h,i]perylene		1.7	1.7	103	1.7	102	1	38 - 126	30	
Benzo[k]fluoranthene		1.7	1.7	100	1.7	104	3	45 - 125	30	
Benzoic acid		1.7	0.96	58	0.75	45	25	25 - 125	30	
Benzyl alcohol		1.7	1.5	92	1.5	90	2	25 - 125	30	
bis(2-Chloroethoxy)methane		1.7	1.5	88	1.4	86	2	43 - 125	30	
bis(2-chloroethyl)ether		1.7	1.4	87	1.4	85	3	38 - 125	30	
bis(2-chloroisopropyl)ether		1.7	1.5	88	1.4	86	2	25 - 125	30	
bis(2-Ethylhexyl)phthalate		1.7	1.8	105	1.8	106	1	47 - 127	30	
Butyl benzyl phthalate		1.7	1.7	102	1.7	105	3	49 - 125	30	
Chrysene		1.7	1.6	97	1.6	99	2	53 - 125	30	
Di-n-butyl phthalate		1.7	1.6	98	1.6	98	1	56 - 125	30	
Di-n-octyl phthalate		1.7	1.7	104	1.8	106	2	41 - 132	30	
Dibenz[a,h]anthracene		1.7	1.7	102	1.7	102	0	41 - 125	30	
Dibenzofuran		1.7	1.5	93	1.5	92	2	51 - 125	30	
Diethyl phthalate		1.7	1.6	95	1.6	98	3	50 - 125	30	
Dimethyl phthalate		1.7	1.5	92	1.6	94	3	49 - 125	30	
Fluoranthene		1.7	1.6	96	1.6	98	2	54 - 125	30	
Fluorene		1.7	1.6	96	1.6	95	1	49 - 125	30	
Hexachlorobenzene		1.7	1.5	87	1.5	89	2	47 - 125	30	
Hexachlorobutadiene		1.7	1.4	82	1.4	83	2	40 - 125	30	
Hexachloroethane		1.7	1.4	85	1.4	82	4	34 - 125	30	
Indeno[1,2,3-cd]pyrene		1.7	1.7	105	1.7	104	1	38 - 125	30	
Isophorone		1.7	1.4	85	1.4	83	2	43 - 125	30	
N-Nitroso-di-n-propylamine		1.7	1.5	88	1.4	86	2	40 - 125	30	
N-Nitrosodiphenylamine		1.7	1.6	94	1.6	95	1	49 - 125	30	
Naphthalene		1.7	1.5	89	1.5	88	1	40 - 125	30	
Nitrobenzene		1.7	1.4	86	1.4	83	3	41 - 125	30	
Pentachlorophenol		1.7	1.4	86	1.4	85	1	25 - 125	30	
Phenanthrene		1.7	1.6	96	1.6	95	1	50 - 125	30	
Phenol		1.7	1.5	92	1.5	89	2	39 - 125	30	
Pyrene		1.7	1.7	103	1.7	105	1	46 - 125	30	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8270C **AAB #:** 10101

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
SMCSD0101FA	0910009-001A	01-Oct-09	02-Oct-09	06-Oct-09	14	4.8	13-Oct-09	40	7	
SMCSD0401FA	0910009-002A	01-Oct-09	02-Oct-09	06-Oct-09	14	4.8	12-Oct-09	40	6.3	
SMCSD0401FC	0910009-003A	01-Oct-09	02-Oct-09	06-Oct-09	14	4.8	13-Oct-09	40	7	
SMCSD0501FA	0910009-004A	01-Oct-09	02-Oct-09	06-Oct-09	14	4.8	13-Oct-09	40	6.9	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8270C **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: MS05_26 **Calibration ID:** 1648

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TD100909A5	TD100909A5	09-Oct-09	6:48	09-Oct-09	7:09
SSTD160PPM	SSTD160PPM	09-Oct-09	7:09	09-Oct-09	7:47
SSTD120PPM	SSTD120PPM	09-Oct-09	7:47	09-Oct-09	8:26
SSTD080PPM	SSTD080PPM	09-Oct-09	8:26	09-Oct-09	9:05
SSTD060PPM	SSTD060PPM	09-Oct-09	9:05	09-Oct-09	9:44
SSTD050PPM	SSTD050PPM	09-Oct-09	9:44	09-Oct-09	10:22
SSTD040PPM	SSTD040PPM	09-Oct-09	10:22	09-Oct-09	11:01
SSTD020PPM	SSTD020PPM	09-Oct-09	11:01	09-Oct-09	11:40
SSTD010PPM	SSTD010PPM	09-Oct-09	11:40	09-Oct-09	12:19
SSTD005PPM	SSTD005PPM	09-Oct-09	12:19	09-Oct-09	13:36
ICV-100909	ICV-100909	09-Oct-09	13:36	09-Oct-09	13:36
TD101209A5	TD101209A5	12-Oct-09	7:07	12-Oct-09	7:28
CC101209A5	CC101209A5	12-Oct-09	7:28	12-Oct-09	8:07
MB-10101	MB-10101	12-Oct-09	10:03	12-Oct-09	10:42
LCS-10101	LCS-10101	12-Oct-09	10:42	12-Oct-09	11:20
LCSD-10101	LCSD-10101	12-Oct-09	11:20	12-Oct-09	17:35
SMCSD0401FA	0910009-002A	12-Oct-09	17:35	12-Oct-09	17:35
TD101309A5	TD101309A5	13-Oct-09	7:42	13-Oct-09	8:03
CC101309A5	CC101309A5	13-Oct-09	8:03	13-Oct-09	8:42
SMCSD0501FA	0910009-004A	13-Oct-09	8:42	13-Oct-09	9:20
SMCSD0101FA	0910009-001A	13-Oct-09	9:20	13-Oct-09	11:16
SMCSD0401FC	0910009-003A	13-Oct-09	11:16	13-Oct-09	11:16

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8270C	**AAB #:**	MS05_26_091009A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS05_26	**Injection Date/Time:**	10/9/2009 6:48:00 AM
Initial Calibration ID:	1648	**File ID:**	C:\HPCHEM\1\DATA\N1590.D
Compound:	SW8270C	**Sample ID:**	TD100909A5

Mass	Ion Abundance Criteria	% Relative Abundance	Q
51	30 - 60% of mass 198	43.5	
68	Less than 2% of mass 69	0	
69	Mass 69 relative abundance	57.4	
70	Less than 2% of mass 69	0.3	
127	40 - 60% of mass 198	47.8	
197	Less than 1% of mass 198	0	
198	Base peak, 100% relative abundance	100	
199	5 - 9% of mass 198	6.5	
275	10 - 30% of mass 198	21.2	
365	Greater than 1 % of mass 198	2.0	
441	Present, but less than mass 443	6.7	
442	Greater than 40% of mass 198	41.8	
443	17 - 23% of mass 442	19.2	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8270C	**AAB #:**	MS05_26_091012A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS05_26	**Injection Date/Time:**	10/12/2009 7:07:00 AM
Initial Calibration ID:	1648	**File ID:**	C:\HPCHEM\1\DATA\N1610.D
Compound:	SW8270C	**Sample ID:**	TD101209A5

Mass	Ion Abundance Criteria	% Relative Abundance	Q
51	30 - 60% of mass 198	44.4	
68	Less than 2% of mass 69	0	
69	Mass 69 relative abundance	57.0	
70	Less than 2% of mass 69	0	
127	40 - 60% of mass 198	49.0	
197	Less than 1% of mass 198	0	
198	Base peak, 100% relative abundance	100	
199	5 - 9% of mass 198	6.8	
275	10 - 30% of mass 198	21.1	
365	Greater than 1 % of mass 198	2.1	
441	Present, but less than mass 443	6.8	
442	Greater than 40% of mass 198	42.4	
443	17 - 23% of mass 442	19.1	

AFCEE
ORGANIC ANALYSES DATA SHEET 12
INSTRUMENT PERFORMANCE CHECK
(BFB or DFTPP)

Analytical Method:	SW8270C	**AAB #:**	MS05_26_091013A
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	MS05_26	**Injection Date/Time:**	10/13/2009 7:42:00 AM
Initial Calibration ID:	1648	**File ID:**	C:\HPCHEM\1\DATA\N1629.D
Compound:	SW8270C	**Sample ID:**	TD101309A5

Mass	Ion Abundance Criteria	% Relative Abundance	Q
51	30 - 60% of mass 198	40.0	
68	Less than 2% of mass 69	0	
69	Mass 69 relative abundance	53.5	
70	Less than 2% of mass 69	0.2	
127	40 - 60% of mass 198	47.8	
197	Less than 1% of mass 198	0	
198	Base peak, 100% relative abundance	100	
199	5 - 9% of mass 198	6.9	
275	10 - 30% of mass 198	21.5	
365	Greater than 1 % of mass 198	2.1	
441	Present, but less than mass 443	6.5	
442	Greater than 40% of mass 198	40.1	
443	17 - 23% of mass 442	18.4	

Pesticide Data

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method:	SW8081A	**AAB #:**	18547
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GCGT 57G	**Date of Initial Calibration:**	15-Oct-09
Initial Calibration ID:	1651	**Concentration Units:**	ug/mL

SEE ATTACHED INITIAL CALIBRATION

Comments:

AFCEE FORM O-3

INITIAL CALIBRATION

INSTRUMENT: HP5890-GT (GCGT-57G)

COLUMN: RTX-CLP

SEQUENCE: GT101509

Pesticides

Turbochrom Method File E:\Methods\GAB101509.mth
Printed by : manager on: 10/16/09 10:04:43
Created by : manager on: 10/16/09 09:50:01
Edited by : manager on: 10/16/09 10:04:39
Number of Times Edited : 2
Number of Times Calibrated : 112
Description: PESTICIDE IND."AB" CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : No
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

2,4,5,6-TCMX
Component Type : Single Peak Component
Retention Time : 4.701 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	19577.11	5020.43	----------	----------	1
5	0.0050	38974.63	9786.32	----------	----------	1
4	0.0100	77760.08	19175.12	----------	----------	1
3	0.0200	154254.82	36847.32	----------	----------	1
2	0.0400	290293.90	68489.30	----------	----------	1
1	0.0800	555177.15	126796.13	----------	----------	1

Average Calibration Factor = 7.606311e+06 (%RSD = 5.72)

ALPHA-BHC
Component Type : Single Peak Component
Retention Time : 5.696 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	18753.95	5362.53	----------	----------	1
5	0.0050	40681.11	11678.43	----------	----------	1
4	0.0100	75030.07	21161.28	----------	----------	1
3	0.0200	166293.45	47140.78	----------	----------	1
2	0.0400	351288.26	98488.58	----------	----------	1
1	0.0800	732301.96	195357.51	----------	----------	1

Average Calibration Factor = 8.283997e+06 (%RSD = 7.36)

LINDANE
Component Type : Single Peak Component
Retention Time : 6.305 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	18910.77	5521.96	----------	----------	1
5	0.0050	40803.99	11936.13	----------	----------	1
4	0.0100	73325.12	21320.09	----------	----------	1
3	0.0200	160158.94	46623.12	----------	----------	1
2	0.0400	330648.21	94702.21	----------	----------	1
1	0.0800	672315.26	185380.90	----------	----------	1

Average Calibration Factor = 8.008482e+06 (%RSD = 4.74)

B-BHC
Component Type : Single Peak Component
Retention Time : 6.482 min
Search Window : 1.35 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	12657.80	3612.36	----------	----------	1
5	0.0050	26750.03	7578.11	----------	----------	1
4	0.0100	46583.26	13043.25	----------	----------	1
3	0.0200	97382.61	26445.44	----------	----------	1
2	0.0400	182832.97	49728.01	----------	----------	1
1	0.0800	354510.48	92638.78	----------	----------	1

Average Calibration Factor = 4.858958e+06 (%RSD = 7.81)

D-BHC
Component Type : Single Peak Component
Retention Time : 6.834 min
Search Window : 1.35 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	17042.34	5012.80	----------	----------	1
5	0.0050	38355.08	11001.58	----------	----------	1
4	0.0100	67147.34	19766.38	----------	----------	1
3	0.0200	153906.37	44441.77	----------	----------	1
2	0.0400	323869.24	91839.84	----------	----------	1
1	0.0800	671473.29	184051.34	----------	----------	1

Average Calibration Factor = 7.612032e+06 (%RSD = 8.15)

HEPTACHLOR
Component Type : Single Peak Component
Retention Time : 7.245 min
Search Window : 1.44 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	18260.93	5298.79	----------	----------	1
5	0.0050	38136.14	10910.02	----------	----------	1
4	0.0100	65864.27	18758.78	----------	----------	1
3	0.0200	133508.87	37491.05	----------	----------	1
2	0.0400	253841.03	70615.29	----------	----------	1
1	0.0800	480094.33	130734.81	----------	----------	1

Average Calibration Factor = 6.807571e+06 (%RSD = 9.84)

ALDRIN
Component Type : Single Peak Component
Retention Time : 7.860 min
Search Window : 1.44 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	18166.09	5351.11	----------	----------	1
5	0.0050	38621.72	11283.16	----------	----------	1
4	0.0100	68866.74	20077.08	----------	----------	1
3	0.0200	144591.58	42117.12	----------	----------	1
2	0.0400	294182.68	84400.99	----------	----------	1
1	0.0800	592281.02	164635.80	----------	----------	1

Average Calibration Factor = 7.361314e+06 (%RSD = 3.93)

HEPTACHLOR EPOXIDE
Component Type : Single Peak Component
Retention Time : 9.140 min
Search Window : 1.44 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	19377.54	5703.99	----------	----------	1
5	0.0050	40982.71	11937.79	----------	----------	1
4	0.0100	71721.29	20886.35	----------	----------	1
3	0.0200	148615.98	42839.33	----------	----------	1
2	0.0400	288630.04	82020.87	----------	----------	1
1	0.0800	562963.10	155556.89	----------	----------	1

Average Calibration Factor = 7.521039e+06 (%RSD = 6.57)

G-CHLORDANE
Component Type : Single Peak Component
Retention Time : 9.401 min
Search Window : 1.36 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

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User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	20345.26	5964.19	----------	----------	1
5	0.0050	43013.11	12456.62	----------	----------	1
4	0.0100	75198.80	21689.12	----------	----------	1
3	0.0200	156775.39	45283.24	----------	----------	1
2	0.0400	308697.46	87623.58	----------	----------	1
1	0.0800	615048.47	169764.07	----------	----------	1

Average Calibration Factor = 7.974001e+06 (%RSD = 5.67)

A-CHLORDANE
Component Type : Single Peak Component
Retention Time : 9.683 min
Search Window : 1.36 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	20474.94	6062.39	----------	----------	1
5	0.0050	43353.33	12697.80	----------	----------	1
4	0.0100	76027.52	22125.87	----------	----------	1
3	0.0200	159197.34	45671.57	----------	----------	1
2	0.0400	312382.10	88124.21	----------	----------	1
1	0.0800	618005.33	169244.43	----------	----------	1

Average Calibration Factor = 8.049855e+06 (%RSD = 5.52)

4-4-DDE
Component Type : Single Peak Component
Retention Time : 9.877 min
Search Window : 1.36 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	30431.65	9132.92	----------	----------	1
5	0.0100	65248.16	19601.03	----------	----------	1
4	0.0200	117419.95	35111.61	----------	----------	1
3	0.0400	256311.15	76056.06	----------	----------	1
2	0.0800	520743.32	151052.97	----------	----------	1
1	0.1600	1043402.68	291559.55	----------	----------	1

Average Calibration Factor = 6.362346e+06 (%RSD = 3.96)

ENDOSULFAN I
Component Type : Single Peak Component
Retention Time : 9.970 min
Search Window : 1.36 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	19133.60	5442.10			1
5	0.0050	40294.50	11422.98			1
4	0.0100	70767.82	19917.71			1
3	0.0200	146213.14	40849.01			1
2	0.0400	282765.46	79079.74			1
1	0.0800	554624.29	148889.29			1

Average Calibration Factor = 7.403436e+06 (%RSD = 6.62)

DIELDRIN
Component Type : Single Peak Component
Retention Time : 10.483 min
Search Window : 1.28 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	33478.12	9711.55			1
5	0.0100	71365.45	20694.98			1
4	0.0200	126887.69	36703.98			1
3	0.0400	270165.71	77608.41			1
2	0.0800	536088.44	149660.65			1
1	0.1600	1044598.13	281697.60			1

Average Calibration Factor = 6.739921e+06 (%RSD = 4.28)

ENDRIN
Component Type : Single Peak Component
Retention Time : 10.974 min
Search Window : 1.28 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	26469.02	7702.57			1
5	0.0100	56844.50	16403.89			1
4	0.0200	101557.44	29215.87			1
3	0.0400	214696.69	61240.91			1
2	0.0800	428062.59	119249.81			1
1	0.1600	845025.00	227116.47			1

Average Calibration Factor = 5.379385e+06 (%RSD = 3.83)

4-4-DDD
Component Type : Single Peak Component
Retention Time : 11.161 min
Search Window : 1.28 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	23094.77	6465.89	----------	----------	1
5	0.0100	49544.50	13979.68	----------	----------	1
4	0.0200	89080.50	25058.52	----------	----------	1
3	0.0400	188192.04	53294.11	----------	----------	1
2	0.0800	371265.52	105204.06	----------	----------	1
1	0.1600	728979.00	203141.27	----------	----------	1

Average Calibration Factor = 4.686937e+06 (%RSD = 3.83)

ENDOSULFAN II
Component Type : Single Peak Component
Retention Time : 11.463 min
Search Window : 1.18 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	33868.54	9498.86	----------	----------	1
5	0.0100	69879.00	19817.97	----------	----------	1
4	0.0200	125938.35	34857.25	----------	----------	1
3	0.0400	258351.61	71600.51	----------	----------	1
2	0.0800	499861.75	135308.29	----------	----------	1
1	0.1600	960368.86	251837.19	----------	----------	1

Average Calibration Factor = 6.508355e+06 (%RSD = 6.52)

4-4-DDT
Component Type : Single Peak Component
Retention Time : 11.758 min
Search Window : 1.28 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	22390.59	6469.49	----------	----------	1
5	0.0100	48839.16	14166.58	----------	----------	1
4	0.0200	88739.54	25598.73	----------	----------	1
3	0.0400	188701.91	54219.84	----------	----------	1
2	0.0800	375165.72	107170.30	----------	----------	1
1	0.1600	745183.91	206988.48	----------	----------	1

Average Calibration Factor = 4.675025e+06 (%RSD = 3.07)

ENDRIN ALDEHYDE
Component Type : Single Peak Component
Retention Time : 12.379 min
Search Window : 1.20 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1

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Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	30642.16	8164.52	----------	----------	1
5	0.0100	63010.95	16878.43	----------	----------	1
4	0.0200	108679.16	28545.03	----------	----------	1
3	0.0400	222370.26	57864.23	----------	----------	1
2	0.0800	407167.95	104529.59	----------	----------	1
1	0.1600	752982.11	188305.13	----------	----------	1

Calibration Curve : y = (6439.175818) + (5434197.001346)x + (-4819842.186549)x^2 + (0.000000)x^3
R-squared : 0.999788

METHOXYCHLOR
Component Type : Single Peak Component
Retention Time : 12.838 min
Search Window : 1.20 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0240	61176.24	16911.15	----------	----------	1
5	0.0500	128928.82	35123.00	----------	----------	1
4	0.1000	219938.79	59151.51	----------	----------	1
3	0.2000	430567.10	113727.66	----------	----------	1
2	0.4000	772575.72	201084.81	----------	----------	1
1	0.8000	1388057.68	364556.58	----------	----------	1

Calibration Curve : y = (18921.673351) + (2096673.863834)x + (-483486.061944)x^2 + (0.000000)x^3
R-squared : 0.999756

ENDOSULFAN SULFATE
Component Type : Single Peak Component
Retention Time : 13.327 min
Search Window : 1.20 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	31225.19	8713.16	----------	----------	1
5	0.0100	65979.10	18134.57	----------	----------	1
4	0.0200	115408.20	31650.12	----------	----------	1
3	0.0400	240844.88	64503.10	----------	----------	1
2	0.0800	463680.56	122588.52	----------	----------	1
1	0.1600	888546.70	227783.20	----------	----------	1

Average Calibration Factor = 6.040686e+06 (%RSD = 7.01)

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ENDRIN KETONE
Component Type : Single Peak Component
Retention Time : 13.922 min
Search Window : 1.20 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	44998.22	11772.09	----------	----------	1
5	0.0100	84173.47	22521.58	----------	----------	1
4	0.0200	152705.33	40380.81	----------	----------	1
3	0.0400	297557.64	79287.40	----------	----------	1
2	0.0800	568658.36	147388.99	----------	----------	1
1	0.1600	1084914.19	272066.35	----------	----------	1

Calibration Curve : y = (10780.075703) + (7256323.675152)x + (-3398405.727898)x^2 + (0.000000)x^3
R-squared : 0.999988

DECACHLOROBIPHENYL
Component Type : Single Peak Component
Retention Time : 16.143 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	21210.65	5800.66	----------	----------	1
5	0.0050	41356.30	11193.91	----------	----------	1
4	0.0100	82063.11	21758.16	----------	----------	1
3	0.0200	159046.06	40709.67	----------	----------	1
2	0.0400	295466.94	73702.81	----------	----------	1
1	0.0800	564508.25	138312.87	----------	----------	1

Average Calibration Factor = 7.951778e+06 (%RSD = 8.10)

Calibration Replicate Lists
Component : 2,4,5,6-TCMX
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19577.11	5020.43	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38974.63	9786.32	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77760.08	19175.12	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154254.82	36847.32	0.0200	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

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Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290293.90	68489.30	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
555177.15	126796.13	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ALPHA-BHC

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18753.95	5362.53	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40681.11	11678.43	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75030.07	21161.28	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166293.45	47140.78	0.0200	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351286.26	98488.58	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
732301.96	195357.51	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : LINDANE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18910.77	5521.96	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40803.99	11936.13	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73325.12	21320.09	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160158.94	46623.12	0.0200	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
330648.21	94702.21	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
672315.26	185380.90	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

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Component : B-BHC

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12657.80	3612.36	0.0024	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26750.03	7578.11	0.0050	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46583.26	13043.25	0.0100	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97382.61	26445.44	0.0200	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182832.97	49728.01	0.0400	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
354510.48	92638.78	0.0800	---------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : D-BHC

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17042.34	5012.80	0.0024	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38355.08	11001.58	0.0050	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67147.34	19766.38	0.0100	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153906.37	44441.77	0.0200	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323869.24	91839.84	0.0400	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
671473.29	184051.34	0.0800	---------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : HEPTACHLOR

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18260.93	5298.79	0.0024	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38138.14	10910.02	0.0050	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

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Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65864.27	18758.78	0.0100	---------	-------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133508.87	37491.05	0.0200	---------	-------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
253841.03	70615.29	0.0400	---------	-------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
480094.33	130734.81	0.0800	---------	-------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ALDRIN

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18166.09	5351.11	0.0024	----------	-------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38621.72	11283.16	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68866.74	20077.08	0.0100	---------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144591.58	42117.12	0.0200	---------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294182.68	84400.99	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
592281.02	164635.80	0.0800	-------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : HEPTACHLOR EPOXIDE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19377.54	5703.99	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40982.71	11937.79	0.0050	-------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71721.29	20886.35	0.0100	----------	-------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148615.98	42839.33	0.0200	----------	-------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288630.04	82020.87	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
562963.10	155556.89	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : G-CHLORDANE
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20345.26	5964.19	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43013.11	12456.62	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75198.80	21689.12	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156775.39	45283.24	0.0200	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308697.46	87623.58	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
615048.47	169764.07	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : A-CHLORDANE
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20474.94	6062.39	0.0024	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43353.33	12697.80	0.0050	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76027.52	22125.87	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159197.34	45671.57	0.0200	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
312382.10	88124.21	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
618005.33	169244.43	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : 4-4-DDE
Level : 6

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30431.65	9132.92	0.0048	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65248.16	19601.03	0.0100	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117419.95	35111.61	0.0200	-------	-------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
256311.15	76056.06	0.0400	-------	-------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
520743.32	151052.97	0.0800	--------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1043402.68	291559.55	0.1600	-------	-------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDOSULFAN I

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19133.60	5442.10	0.0024	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40294.50	11422.98	0.0050	-------	-------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70767.82	19917.71	0.0100	-------	-------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
146213.14	40849.01	0.0200	---------	-------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
282765.46	79079.74	0.0400	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
554624.29	148889.29	0.0800	--------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : DIELDRIN

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33478.12	9711.55	0.0048	---------	-------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71365.45	20694.98	0.0100	-------	-------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126887.69	36703.98	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270165.71	77608.41	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536088.44	149660.65	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1044598.13	281697.60	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDRIN
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26469.02	7702.57	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56844.50	16403.89	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101557.44	29215.87	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
214696.69	61240.91	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
428062.59	119249.81	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
845025.00	227116.47	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : 4-4-DDD
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23094.77	6465.89	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49544.50	13979.68	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89080.50	25058.52	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188192.04	53294.11	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371265.52	105204.06	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
728979.00	203141.27	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDOSULFAN II

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33868.54	9498.86	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69879.00	19817.97	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125938.35	34857.25	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
258351.61	71600.51	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
499861.75	135308.29	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
960368.86	251837.19	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : 4-4-DDT

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22390.59	6469.49	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48839.16	14166.58	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88739.54	25598.73	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188701.91	54219.84	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
375165.72	107170.30	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
745188.91	206988.48	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDRIN ALDEHYDE

Level : 6

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30642.16	8164.52	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63010.95	16878.43	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108679.16	28545.03	0.0200	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222370.26	57864.23	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
407167.95	104529.59	0.0800	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
752982.11	188305.13	0.1600	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : METHOXYCHLOR

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61176.24	16911.15	0.0240	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128928.82	35123.00	0.0500	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
219938.79	59151.51	0.1000	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430567.10	113727.66	0.2000	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
772575.72	201084.81	0.4000	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1388057.68	364556.58	0.8000	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDOSULFAN SULFATE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31225.19	8713.16	0.0048	----------	----------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65979.10	18134.57	0.0100	----------	----------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115408.20	31650.12	0.0200	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
240844.88	64503.10	0.0400	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
463680.56	122588.52	0.0800	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
888546.70	227783.20	0.1600	---------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : ENDRIN KETONE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44998.22	11772.09	0.0048	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84173.47	22521.58	0.0100	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152705.33	40380.81	0.0200	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
297557.64	79287.40	0.0400	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
568658.36	147388.99	0.0800	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1084914.19	272066.35	0.1600	---------	---------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

Component : DECACHLOROBIPHENYL

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21210.65	5800.66	0.0024	---------	---------	10/16/09	10:02:32	E:\Gtoct09\G101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41356.30	11193.91	0.0050	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82063.11	21758.16	0.0100	---------	---------	10/16/09	10:02:31	E:\Gtoct09\G101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159046.06	40709.67	0.0200	---------	---------	10/16/09	10:02:30	E:\Gtoct09\G101506.rst

Level : 2

10/16/09 10:04:43 Method: E:\Methods\GAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
295466.94	73702.81	0.0400	----------	----------	10/16/09	10:02:30	E:\Gtoct09\G101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
564508.25	138312.87	0.0800	----------	----------	10/16/09	10:02:29	E:\Gtoct09\G101504.rst

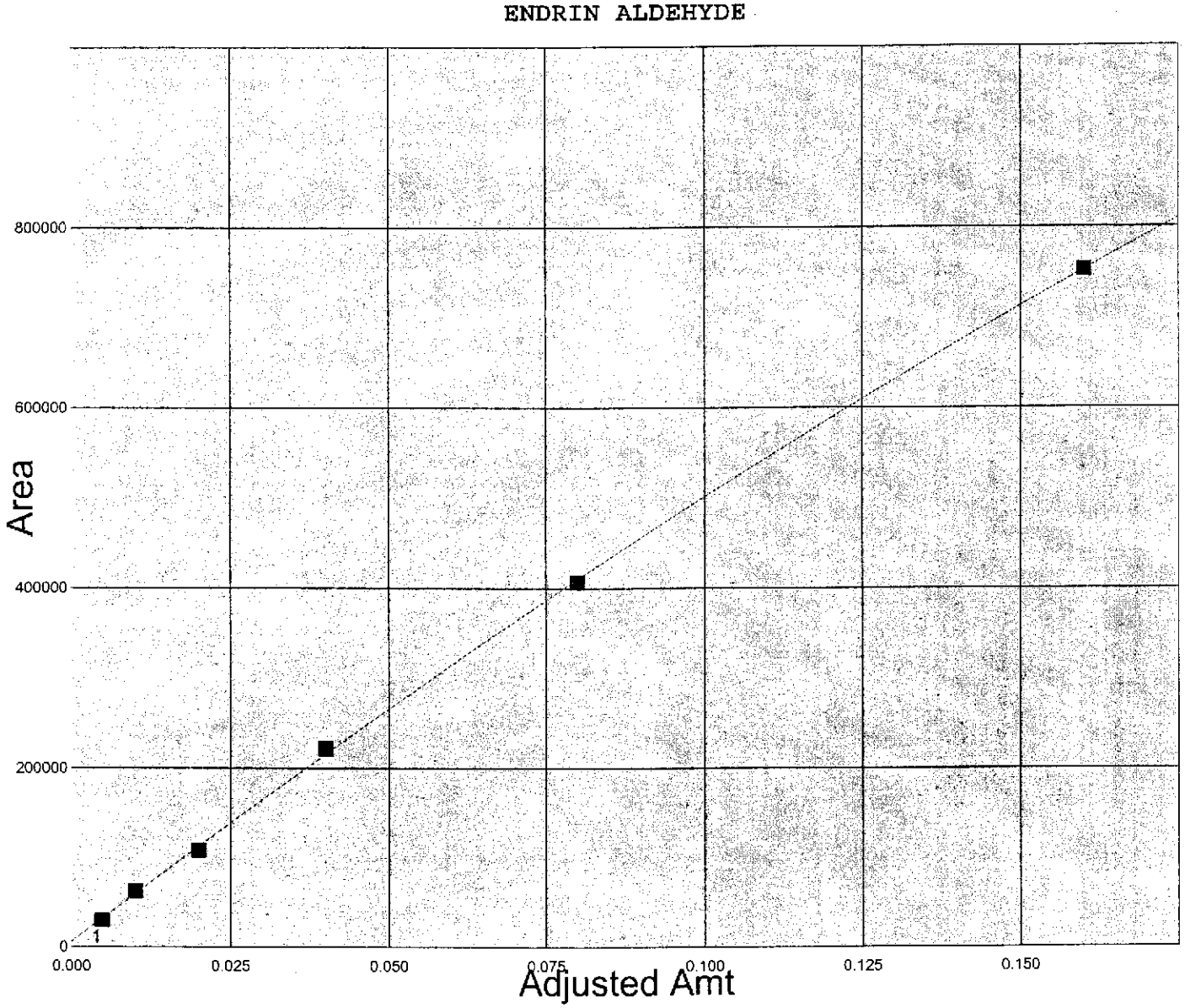
Fit Analysis Output For Method File: E:\METHODS\GAB101509.MTH
Component Name : ENDRIN ALDEHYDE
Date : 10/16/09 10:06:11

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999788
Calibration Curve : Y = (6439.175818) +(5434197.001346) X +(-4819842.186549) X^2

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
6	0.004800	0.004472	0.000328	7.345	30642.160482	32412.272	-1770.112	-5.461
5	0.010000	0.010508	-5.083e-04	-4.837	63010.952858	60299.162	2711.791	4.497
4	0.020000	0.019139	0.000861	4.498	108679.162868	113195.179	-4516.016	-3.990
3	0.040000	0.041244	-0.001244	-3.017	222370.260993	216095.308	6274.953	2.904
2	0.080000	0.079323	0.000677	0.854	407167.953451	410327.946	-3159.992	-0.770
1	0.160000	0.160118	-1.181e-04	-0.074	752982.112557	752522.736	459.376	0.061



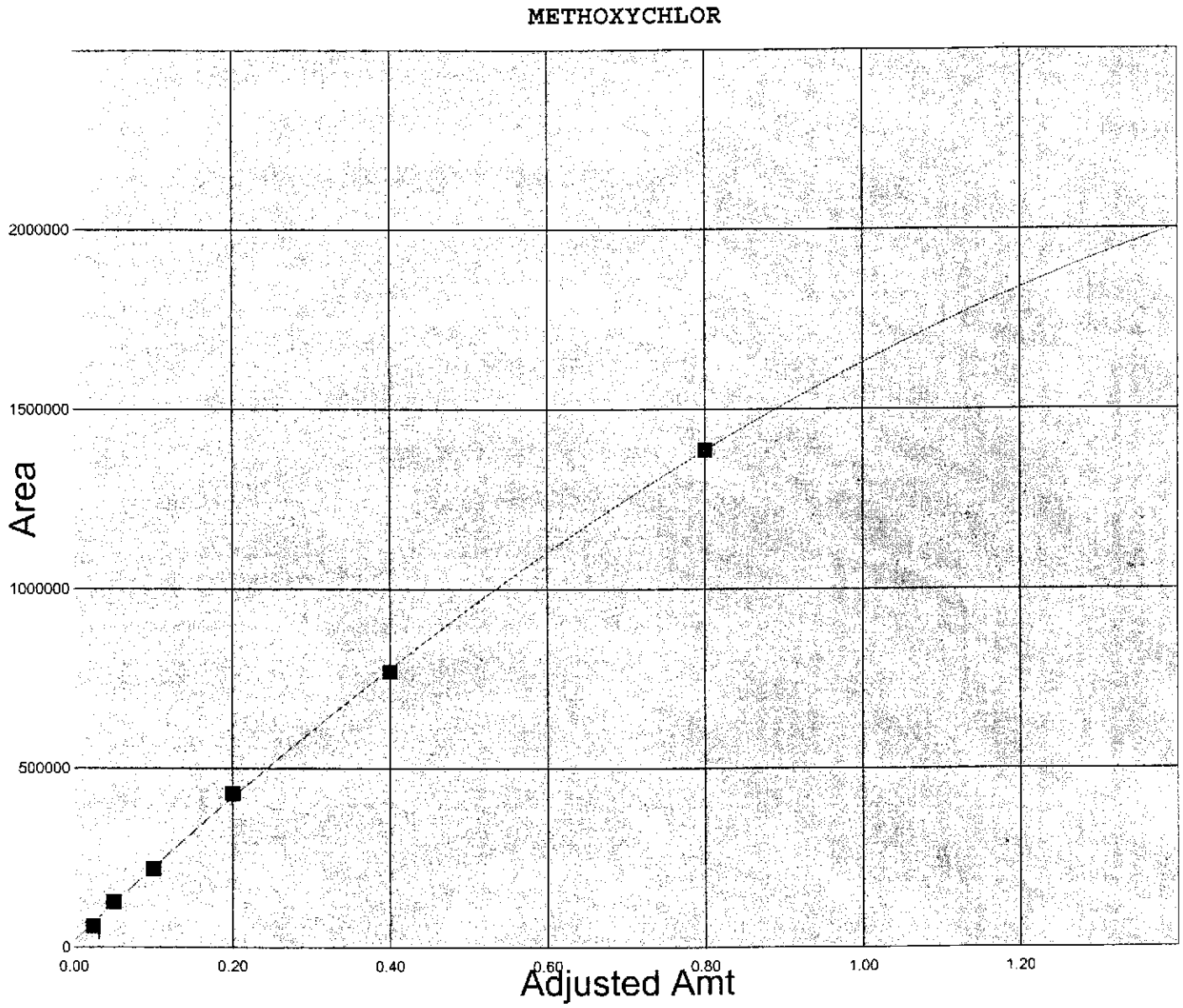
Fit Analysis Output For Method File: E:\METHODS\GAB101509.MTH
Component Name : METHOXYCHLOR
Date : 10/16/09 10:06:22

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999756
Calibration Curve : Y = (18921.673351) +(2096673.863834) X +(-483486.061944) X^2

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
6	0.024000	0.020248	0.003752	18.532	61176.237091	68963.358	-7787.121	-11.292
5	0.050000	0.053118	-0.003118	-5.870	128928.819875	122546.651	6382.168	5.208
4	0.100000	0.098093	0.001907	1.944	219938.788341	223754.199	-3815.411	-1.705
3	0.200000	0.206131	-0.006131	-2.974	430567.104119	418917.004	11650.100	2.781
2	0.400000	0.395527	0.004473	1.131	772575.715976	780233.449	-7657.733	-0.981
1	0.800000	0.800928	-9.284e-04	-0.116	1388057.680601	1386829.685	1227.996	0.089



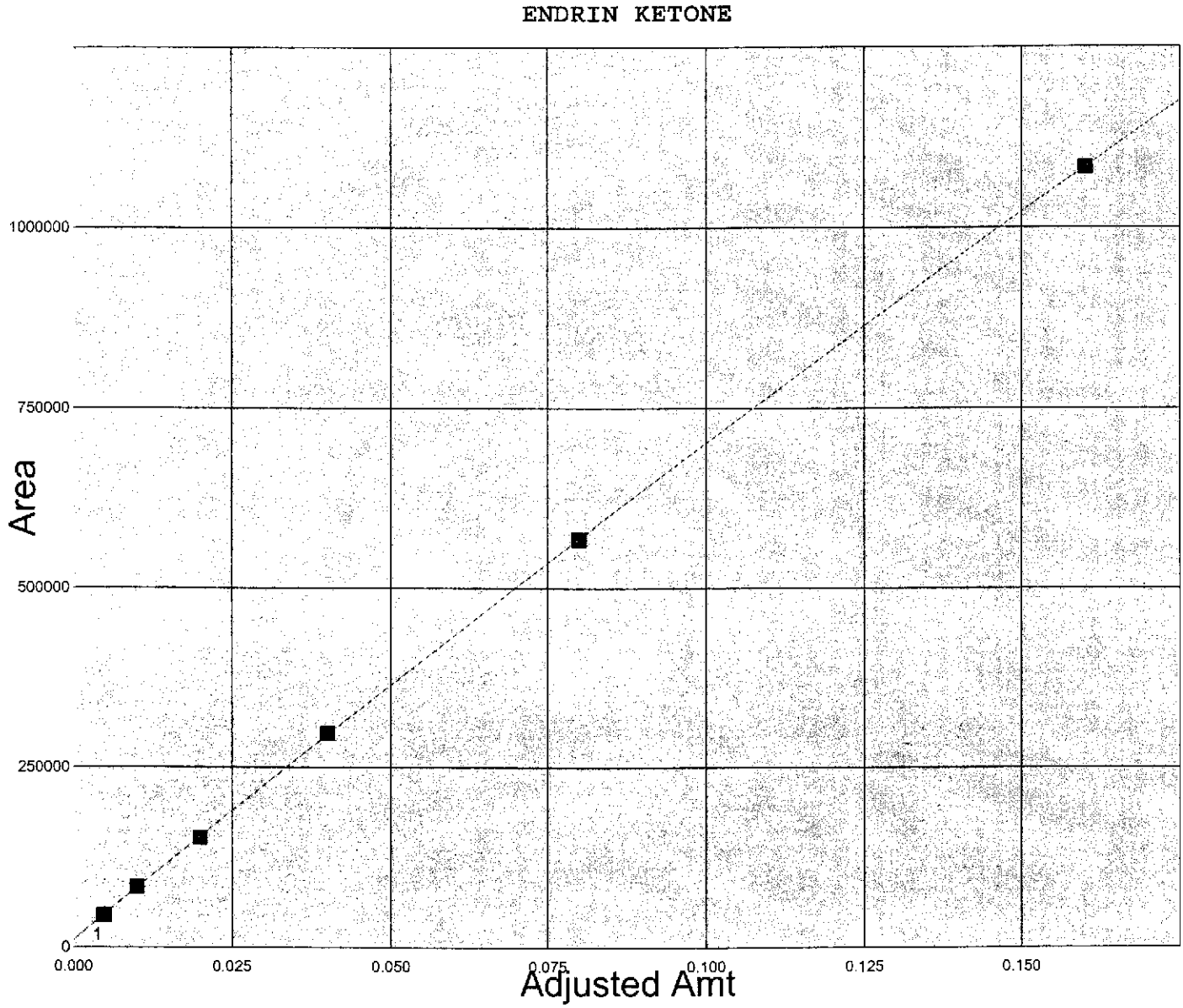
Fit Analysis Output For Method File: E:\METHODS\GAB101509.MTH
Component Name : ENDRIN KETONE
Date : 10/16/09 10:06:32

Curve Parameters:

Curve #1 : 2nd Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999988
Calibration Curve : Y = (10780.075703) +(7256323.675152) X +(-3398405.727898) X^2

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
6	0.004800	0.004726	7.3909e-05	1.564	44998.217533	45532.130	-533.913	-1.173
5	0.010000	0.010163	-1.628e-04	-1.602	84173.472224	83003.472	1170.000	1.410
4	0.020000	0.019741	0.000259	1.310	152705.326977	154547.187	-1841.860	-1.192
3	0.040000	0.040281	-2.810e-04	-0.697	297557.643238	295595.574	1962.070	0.664
2	0.080000	0.079869	0.000131	0.164	568658.363099	569536.173	-877.810	-0.154
1	0.160000	0.160020	-1.970e-05	-0.012	1084914.189495	1084792.677	121.512	0.011



Turbochrom Method File E:\Methods\GTOX101509.mth
Printed by : manager on: 10/16/09 10:11:28
Created by : manager on: 10/16/09 09:50:39
Edited by : manager on: 10/16/09 10:11:26
Number of Times Edited : 4
Number of Times Calibrated : 118
Description: TOXAPHENE CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : No
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

TOX-1
Component Type : Single Peak Component
Retention Time : 9.979 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	0.1000	11792.44	1479.49	----------	----------	1
2	1.0000	146558.98	16148.13	----------	----------	1
1	2.0000	269724.22	29949.64	----------	----------	1
3	0.5000	58644.07	8720.23	----------	----------	1
5	0.0500	6851.97	953.78	----------	----------	1

Average Calibration Factor = 130734.597822 (%RSD = 9.77)

TOX-2
Component Type : Single Peak Component
Retention Time : 11.035 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	0.1000	22217.74	2800.79	----------	----------	1
2	1.0000	246564.06	30114.35	----------	----------	1
1	2.0000	479423.15	58350.22	----------	----------	1
3	0.5000	124883.89	15214.65	----------	----------	1
5	0.0500	12592.73	1561.84	----------	----------	1

Average Calibration Factor = 242015.078548 (%RSD = 4.96)

TOX-3
Component Type : Single Peak Component
Retention Time : 11.435 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/16/09 10:11:28 Method: E:\Methods\GTOX101509.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	0.1000	31198.14	4903.89	----------	----------	1
2	1.0000	340022.32	48512.69	----------	----------	1
1	2.0000	657957.59	92155.63	----------	----------	1
3	0.5000	175200.94	25693.84	----------	----------	1
5	0.0500	17161.86	2692.45	----------	----------	1

Average Calibration Factor = 334924.341390 (%RSD = 4.47)

TOX-4
Component Type : Single Peak Component
Retention Time : 12.177 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	0.1000	21104.81	3872.60	----------	----------	1
2	1.0000	242796.69	41235.53	----------	----------	1
1	2.0000	482982.36	80427.10	----------	----------	1
3	0.5000	120290.98	20865.84	----------	----------	1
5	0.0500	11091.10	2048.95	----------	----------	1

Average Calibration Factor = 231547.979231 (%RSD = 6.19)

TOX-5
Component Type : Single Peak Component
Retention Time : 13.082 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	0.1000	18911.06	3889.51	----------	----------	1
2	1.0000	225823.17	41605.59	----------	----------	1
1	2.0000	447095.67	81004.81	----------	----------	1
3	0.5000	112204.55	21245.16	----------	----------	1
5	0.0500	9797.63	2046.02	----------	----------	1

Average Calibration Factor = 211768.670936 (%RSD = 6.38)

Calibration Replicate Lists
Component : TOX-1
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11792.44	1479.49	0.1000	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101513.rst

Level : 2

10/16/09 10:11:28 Method: E:\Methods\GTOX101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
146558.98	16148.13	1.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269724.22	29949.64	2.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58644.07	8720.23	0.5000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101512.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6851.97	953.78	0.0500	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101514.rst

Component : TOX-2
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22217.74	2800.79	0.1000	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
246564.06	30114.35	1.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
479423.15	58350.22	2.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124883.89	15214.65	0.5000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101512.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12592.73	1561.84	0.0500	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101514.rst

Component : TOX-3
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31198.14	4903.89	0.1000	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340022.32	48512.69	1.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
657957.59	92155.63	2.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175200.94	25693.84	0.5000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101512.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17161.86	2692.45	0.0500	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101514.rst

Component : TOX-4
Level : 4

10/16/09 10:11:28 Method: E:\Methods\GTOX101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21104.81	3872.60	0.1000	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
242796.69	41235.53	1.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
482982.36	80427.10	2.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
120290.98	20865.84	0.5000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101512.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11091.10	2048.95	0.0500	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101514.rst

Component : TOX-5
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18911.06	3889.51	0.1000	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
225823.17	41605.59	1.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
447095.67	81004.81	2.0000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112204.55	21245.16	0.5000	----------	----------	10/16/09	10:11:19	E:\Gtoct09\G101512.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9797.63	2046.02	0.0500	----------	----------	10/16/09	10:11:20	E:\Gtoct09\G101514.rst

Turbochrom Method File E:\Methods\GCL101509.mth
Printed by : manager on: 10/16/09 10:12:44
Created by : manager on: 10/16/09 09:50:21
Edited by : manager on: 10/16/09 10:12:42
Number of Times Edited : 2
Number of Times Calibrated : 56
Description: CHLORDANE CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

CHLOR-TECH-1
Component Type : Single Peak Component
Retention Time : 7.080 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	137052.01	40285.02	----------	----------	1
2	0.2000	57066.75	16897.03	----------	----------	1
3	0.0500	15004.19	4470.15	----------	----------	1

Average Calibration Factor = 286507.220371 (%RSD = 4.55)

CHLOR-TECH-2
Component Type : Single Peak Component
Retention Time : 8.150 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	182919.79	46231.26	----------	----------	1
2	0.2000	80213.76	20713.63	----------	----------	1
3	0.0500	20583.64	5703.26	----------	----------	1

Average Calibration Factor = 392860.427919 (%RSD = 6.11)

CHLOR-TECH-3
Component Type : Single Peak Component
Retention Time : 9.395 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/16/09 10:12:44 Method: E:\Methods\GCL101509.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	461936.47	115976.73	----------	----------	1
2	0.2000	190348.99	48922.50	----------	----------	1
3	0.0500	49584.91	12763.15	----------	----------	1

Average Calibration Factor = 955771.998700 (%RSD = 3.57)

CHLOR-TECH-4
Component Type : Single Peak Component
Retention Time : 9.662 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	754066.84	150259.80	----------	----------	1
2	0.2000	313796.97	63596.45	----------	----------	1
3	0.0500	81044.16	16640.69	----------	----------	1

Average Calibration Factor = 1.566001e+06 (%RSD = 3.60)

CHLOR-TECH-5
Component Type : Single Peak Component
Retention Time : 11.299 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	125789.24	32951.08	----------	----------	1
2	0.2000	52060.22	13779.60	----------	----------	1
3	0.0500	13228.27	3529.88	----------	----------	1

Average Calibration Factor = 258815.020271 (%RSD = 2.56)

Calibration Replicate Lists
Component : CHLOR-TECH-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137052.01	40285.02	0.5000	----------	----------	10/16/09	10:12:37	E:\Gtoct09\G101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57066.75	16897.03	0.2000	----------	----------	10/16/09	10:12:37	E:\Gtoct09\G101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15004.19	4470.15	0.0500	----------	----------	10/16/09	10:12:38	E:\Gtoct09\G101517.rst

Component : CHLOR-TECH-2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182919.79	46231.26	0.5000	----------	----------	10/16/09	10:12:37	E:\Gtoct09\G101515.rst

10/16/09 10:12:44 Method: E:\Methods\GCL101509.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80213.76	20713.63	0.2000	---------	-------	10/16/09	10:12:37	E:\Gtoct09\G101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20583.64	5703.26	0.0500	-------	---------	10/16/09	10:12:38	E:\Gtoct09\G101517.rst

Component : CHLOR-TECH-3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
461936.47	115976.73	0.5000	-------	---------	10/16/09	10:12:37	E:\Gtoct09\G101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
190348.99	48922.50	0.2000	---------	---------	10/16/09	10:12:37	E:\Gtoct09\G101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49584.91	12763.15	0.0500	-------	---------	10/16/09	10:12:38	E:\Gtoct09\G101517.rst

Component : CHLOR-TECH-4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
754066.84	150259.80	0.5000	-------	---------	10/16/09	10:12:37	E:\Gtoct09\G101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
313796.97	63596.45	0.2000	---------	-------	10/16/09	10:12:37	E:\Gtoct09\G101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81044.16	16640.69	0.0500	---------	---------	10/16/09	10:12:38	E:\Gtoct09\G101517.rst

Component : CHLOR-TECH-5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125789.24	32951.08	0.5000	---------	---------	10/16/09	10:12:37	E:\Gtoct09\G101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52060.22	13779.60	0.2000	---------	---------	10/16/09	10:12:37	E:\Gtoct09\G101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13228.27	3529.88	0.0500	---------	-------	10/16/09	10:12:38	E:\Gtoct09\G101517.rst

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method:	SW8081A	**AAB #:**	18548
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GCGT 57H	**Date of Initial Calibration:**	15-Oct-09
Initial Calibration ID:	1652	**Concentration Units:**	ug/mL

SEE ATTACHED INITIAL CALIBRATION

Comments:

AFCEE FORM O-3

INITIAL CALIBRATION

INSTRUMENT: HP5890-GT (GCGT-57H)

COLUMN: RTX-CLP2

SEQUENCE: GT101509

Pesticides

Turbochrom Method File E:\Methods\HAB101509.mth
Printed by : manager on: 10/16/09 10:17:58
Created by : manager on: 10/16/09 09:49:07
Edited by : manager on: 10/16/09 10:17:55
Number of Times Edited : 2
Number of Times Calibrated : 94
Description: INDIV.AB PEST CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

2,4,5,6-TCMX
Component Type : Single Peak Component
Retention Time : 5.419 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	7145.36	1903.12			1
5	0.0050	14389.76	3824.62			1
4	0.0100	30386.62	7881.12			1
3	0.0200	61496.47	16057.82			1
2	0.0400	125209.97	32725.83			1
1	0.0800	266196.84	67207.41			1

Average Calibration Factor = 3.071064e+06 (%RSD = 4.97)

ALPHA-BHC
Component Type : Single Peak Component
Retention Time : 6.724 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6100.01	1802.04			1
5	0.0050	13480.58	3990.78			1
4	0.0100	24541.19	7329.31			1
3	0.0200	55789.05	17172.42			1
2	0.0400	128145.45	40221.15			1
1	0.0800	307507.98	93816.38			1

Calibration Curve : y = (-696.380029) + (2534699.367313)x + (16502733.724006)x^2 + (0.000000)x^3
R-squared : 0.999904

LINDANE

Component Type : Single Peak Component
Retention Time : 7.518 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6265.80	1853.13	----------	----------	1
5	0.0050	13612.86	4091.08	----------	----------	1
4	0.0100	24689.54	7520.08	----------	----------	1
3	0.0200	55578.61	17346.18	----------	----------	1
2	0.0400	123870.91	38919.55	----------	----------	1
1	0.0800	285288.50	87458.76	----------	----------	1

Calibration Curve : y = (-727.691945) + (2604034.000593)x + (12167429.943378)x^2 + (0.000000)x^3
R-squared : 0.999891

B-BHC

Component Type : Single Peak Component
Retention Time : 7.703 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	4658.77	1359.83	----------	----------	1
5	0.0050	10069.40	2947.50	----------	----------	1
4	0.0100	17989.21	5250.73	----------	----------	1
3	0.0200	38476.58	11280.86	----------	----------	1
2	0.0400	78888.39	22944.98	----------	----------	1
1	0.0800	164531.58	46713.28	----------	----------	1

Average Calibration Factor = 1.951106e+06 (%RSD = 4.56)

D-BHC

Component Type : Single Peak Component
Retention Time : 8.365 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

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Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	5646.41	1689.57	----------	----------	1
5	0.0050	12364.10	3724.12	----------	----------	1
4	0.0100	22335.49	6889.32	----------	----------	1
3	0.0200	50486.71	16060.93	----------	----------	1
2	0.0400	114118.85	36895.88	----------	----------	1
1	0.0800	269208.01	84711.28	----------	----------	1

Calibration Curve : y = (-518.412202) + (2315220.763318)x + (13229102.124131)x^2 + (0.000000)x^3
R-squared : 0.999903

HEPTACHLOR
Component Type : Single Peak Component
Retention Time : 8.439 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6685.39	1936.06	----------	----------	1
5	0.0050	14638.15	4138.86	----------	----------	1
4	0.0100	25909.33	7314.00	----------	----------	1
3	0.0200	53922.76	15304.23	----------	----------	1
2	0.0400	108079.91	30968.08	----------	----------	1
1	0.0800	221633.52	63471.98	----------	----------	1

Average Calibration Factor = 2.745449e+06 (%RSD = 4.11)

ALDRIN
Component Type : Single Peak Component
Retention Time : 9.218 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6422.38	1889.66	----------	----------	1
5	0.0050	13857.77	4043.72	----------	----------	1
4	0.0100	24972.49	7316.99	----------	----------	1
3	0.0200	53734.61	15977.08	----------	----------	1
2	0.0400	115861.22	34948.28	----------	----------	1
1	0.0800	260926.74	78080.69	----------	----------	1

Average Calibration Factor = 2.798274e+06 (%RSD = 9.36)

HEPTACHLOR EPOXIDE
Component Type : Single Peak Component
Retention Time : 10.514 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

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Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6948.85	2011.92	----------	----------	1
5	0.0050	14877.79	4300.70	----------	----------	1
4	0.0100	26433.71	7570.42	----------	----------	1
3	0.0200	55710.35	16275.20	----------	----------	1
2	0.0400	114280.35	33653.75	----------	----------	1
1	0.0800	244793.97	71587.56	----------	----------	1

Average Calibration Factor = 2.869456e+06 (%RSD = 5.09)

G-CHLORDANE
Component Type : Single Peak Component
Retention Time : 10.928 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	7536.00	2157.12	----------	----------	1
5	0.0050	16081.08	4643.96	----------	----------	1
4	0.0100	28588.79	8242.02	----------	----------	1
3	0.0200	61123.18	17807.14	----------	----------	1
2	0.0400	127381.88	37521.85	----------	----------	1
1	0.0800	279872.99	81015.00	----------	----------	1

Average Calibration Factor = 3.159035e+06 (%RSD = 6.64)

A-CHLORDANE
Component Type : Single Peak Component
Retention Time : 11.257 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	7504.29	2176.17	----------	----------	1
5	0.0050	16150.94	4694.73	----------	----------	1
4	0.0100	28718.47	8351.76	----------	----------	1
3	0.0200	61775.18	18126.12	----------	----------	1
2	0.0400	128818.80	38082.43	----------	----------	1
1	0.0800	282399.06	81954.26	----------	----------	1

Average Calibration Factor = 3.178023e+06 (%RSD = 6.79)

ENDOSULFAN I
Component Type : Single Peak Component
Retention Time : 11.394 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	6696.91	1899.93	----------	----------	1
5	0.0050	14373.32	4086.48	----------	----------	1
4	0.0100	25446.15	7216.16	----------	----------	1
3	0.0200	54267.46	15603.40	----------	----------	1
2	0.0400	112131.30	32550.11	----------	----------	1
1	0.0800	243359.63	69810.71	----------	----------	1

Average Calibration Factor = 2.794718e+06 (%RSD = 5.92)

4-4-DDE

Component Type : Single Peak Component
Retention Time : 11.629 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	13031.76	3702.54	----------	----------	1
5	0.0100	28208.70	8087.26	----------	----------	1
4	0.0200	51512.01	14901.75	----------	----------	1
3	0.0400	117626.95	34851.01	----------	----------	1
2	0.0800	260779.79	76852.26	----------	----------	1
1	0.1600	585134.65	164835.57	----------	----------	1

Calibration Curve : y = (-2915.182039) + (2849594.523883)x + (5179274.389108)x^2 + (0.000000)x^3
R-squared : 0.999833

DIELDRIN

Component Type : Single Peak Component
Retention Time : 12.009 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	12162.31	3476.26	----------	----------	1
5	0.0100	26396.73	7560.80	----------	----------	1
4	0.0200	47367.93	13636.39	----------	----------	1
3	0.0400	105449.02	30839.55	----------	----------	1
2	0.0800	226016.83	66425.65	----------	----------	1
1	0.1600	491219.53	140268.24	----------	----------	1

Average Calibration Factor = 2.678907e+06 (%RSD = 9.07)

ENDRIN

Component Type : Single Peak Component
Retention Time : 12.697 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

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User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	9573.03	2680.33	----------	----------	1
5	0.0100	20513.41	5784.06	----------	----------	1
4	0.0200	37529.98	10606.87	----------	----------	1
3	0.0400	81775.68	23479.14	----------	----------	1
2	0.0800	175653.75	50159.06	----------	----------	1
1	0.1600	383411.45	106344.26	----------	----------	1

Average Calibration Factor = 2.093101e+06 (%RSD = 8.63)

4-4-DDD
Component Type : Single Peak Component
Retention Time : 12.928 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	10135.94	2701.22	----------	----------	1
5	0.0100	21173.15	5862.17	----------	----------	1
4	0.0200	39039.26	10758.69	----------	----------	1
3	0.0400	83143.49	23938.84	----------	----------	1
2	0.0800	174539.80	51255.23	----------	----------	1
1	0.1600	372876.83	107449.02	----------	----------	1

Average Calibration Factor = 2.128624e+06 (%RSD = 5.86)

ENDOSULFAN II
Component Type : Single Peak Component
Retention Time : 13.174 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	12689.26	3496.38	----------	----------	1
5	0.0100	26513.56	7442.83	----------	----------	1
4	0.0200	48519.12	13482.24	----------	----------	1
3	0.0400	103833.28	29649.06	----------	----------	1
2	0.0800	216453.20	61146.99	----------	----------	1
1	0.1600	462082.10	125769.07	----------	----------	1

Average Calibration Factor = 2.651736e+06 (%RSD = 5.67)

4-4-DDT
Component Type : Single Peak Component
Retention Time : 13.623 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	8979.98	2539.98	----------	----------	1
5	0.0100	20254.38	5758.37	----------	----------	1
4	0.0200	37323.11	10714.33	----------	----------	1
3	0.0400	84863.34	24209.37	----------	----------	1
2	0.0800	179544.78	51388.93	----------	----------	1
1	0.1600	386284.62	108689.78	----------	----------	1

Average Calibration Factor = 2.090433e+06 (%RSD = 10.31)

ENDRIN ALDEHYDE
Component Type : Single Peak Component
Retention Time : 13.939 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	11793.00	3195.74	----------	----------	1
5	0.0100	24834.45	6772.52	----------	----------	1
4	0.0200	43308.30	11871.42	----------	----------	1
3	0.0400	93911.22	25368.59	----------	----------	1
2	0.0800	181230.61	48948.09	----------	----------	1
1	0.1600	359108.71	94872.26	----------	----------	1

Average Calibration Factor = 2.327221e+06 (%RSD = 5.38)

ENDOSULFAN SULFATE
Component Type : Single Peak Component
Retention Time : 14.555 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	11533.41	3255.04	----------	----------	1
5	0.0100	24568.34	6972.94	----------	----------	1
4	0.0200	43672.36	12317.74	----------	----------	1
3	0.0400	95052.90	27167.91	----------	----------	1
2	0.0800	202371.43	55339.71	----------	----------	1
1	0.1600	428401.26	114110.27	----------	----------	1

Average Calibration Factor = 2.437786e+06 (%RSD = 6.76)

METHOXYCHLOR
Component Type : Single Peak Component
Retention Time : 15.168 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

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User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0240	27134.19	7553.54	----------	----------	1
5	0.0500	57940.68	16342.46	----------	----------	1
4	0.1000	103376.62	29061.78	----------	----------	1
3	0.2000	212513.83	59541.57	----------	----------	1
2	0.4000	410873.18	112332.72	----------	----------	1
1	0.8000	788336.31	212393.73	----------	----------	1

Average Calibration Factor = 1.066391e+06 (%RSD = 6.20)

ENDRIN KETONE
Component Type : Single Peak Component
Retention Time : 15.767 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0048	13905.17	3819.90	----------	----------	1
5	0.0100	30623.03	8399.29	----------	----------	1
4	0.0200	55165.82	15318.98	----------	----------	1
3	0.0400	124691.84	34241.86	----------	----------	1
2	0.0800	258888.47	70368.98	----------	----------	1
1	0.1600	532467.80	139151.36	----------	----------	1

Average Calibration Factor = 3.066471e+06 (%RSD = 6.89)

DECACHLOROBIPHENYL
Component Type : Single Peak Component
Retention Time : 18.816 min
Search Window : 1.20 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
6	0.0024	10153.51	2125.50	----------	----------	1
5	0.0050	20009.32	4146.47	----------	----------	1
4	0.0100	41203.77	8315.50	----------	----------	1
3	0.0200	81550.33	16287.50	----------	----------	1
2	0.0400	156951.08	30826.48	----------	----------	1
1	0.0800	322975.51	61956.61	----------	----------	1

Average Calibration Factor = 4.065226e+06 (%RSD = 2.59)

Calibration Replicate Lists
Component : 2,4,5,6-TCMX
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7145.36	1903.12	0.0024	------	------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

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Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14389.76	3824.62	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30386.62	7881.12	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61496.47	16057.82	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125209.97	32725.83	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266196.84	67207.41	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ALPHA-BHC

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6100.01	1802.04	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13480.58	3990.78	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24541.19	7329.31	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55789.05	17172.42	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128145.45	40221.15	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
307507.98	93816.38	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : LINDANE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6265.80	1853.13	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13612.86	4091.08	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24689.54	7520.08	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55578.61	17346.18	0.0200	---------	-------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123870.91	38919.55	0.0400	-------	---------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
285288.50	87458.76	0.0800	---------	---------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : B-BHC
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4658.77	1359.83	0.0024	---------	---------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10069.40	2947.50	0.0050	---------	---------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17989.21	5250.73	0.0100	---------	---------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38476.58	11280.86	0.0200	---------	-------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78888.39	22944.98	0.0400	---------	---------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
164531.56	46713.28	0.0800	-------	-------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : D-BHC
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5646.41	1689.57	0.0024	---------	-------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12364.10	3724.12	0.0050	-------	---------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22335.49	6889.32	0.0100	-------	-------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50486.71	16060.93	0.0200	-------	-------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114118.85	36895.88	0.0400	---------	-------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269208.01	84711.28	0.0800	---------	---------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : HEPTACHLOR

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6685.39	1936.06	0.0024	----------	---------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14638.15	4138.86	0.0050	----------	---------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25909.33	7314.00	0.0100	----------	---------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53922.76	15304.23	0.0200	----------	---------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108079.91	30968.08	0.0400	----------	---------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
221633.52	63471.98	0.0800	----------	---------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ALDRIN

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6422.38	1889.66	0.0024	----------	---------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13857.77	4043.72	0.0050	----------	---------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24972.49	7316.99	0.0100	----------	---------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53734.61	15977.08	0.0200	----------	---------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115861.22	34948.28	0.0400	----------	---------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260926.74	78080.69	0.0800	----------	---------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : HEPTACHLOR EPOXIDE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6948.85	2011.92	0.0024	----------	---------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14877.79	4300.70	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26433.71	7570.42	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55710.35	16275.20	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114280.35	33653.75	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
244793.97	71587.56	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : G-CHLORDANE
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7536.00	2157.12	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16081.08	4643.96	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28588.79	8242.02	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61123.18	17807.14	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127381.88	37521.85	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
279872.99	81015.00	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : A-CHLORDANE
Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7504.29	2176.17	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16150.94	4694.73	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28719.47	8351.76	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61775.18	18126.12	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128818.80	38082.43	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
282399.06	81954.26	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDOSULFAN I

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6696.91	1899.93	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14373.32	4086.48	0.0050	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25446.15	7216.16	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54267.46	15603.40	0.0200	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112131.30	32550.11	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
243359.63	69810.71	0.0800	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : 4-4-DDE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13031.76	3702.54	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28208.70	8087.26	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51512.01	14901.75	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117626.95	34851.01	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260779.79	76852.26	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
585134.65	164835.57	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : DIELDRIN

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12162.31	3476.26	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26396.73	7560.80	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47367.93	13636.39	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
105449.02	30839.55	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226016.83	66425.65	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
491219.53	140268.24	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDRIN

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9573.03	2680.33	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20513.41	5784.06	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37529.98	10606.87	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81775.68	23479.14	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175653.75	50159.06	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383411.45	106344.26	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : 4-4-DDD

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10135.94	2701.22	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21173.15	5862.17	0.0100	-------	-------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39039.26	10758.69	0.0200	-------	-------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83143.49	23938.84	0.0400	---------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
174539.80	51255.23	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
372876.83	107449.02	0.1600	---------	-------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDOSULFAN II

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12689.26	3496.38	0.0048	-------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26513.56	7442.83	0.0100	-------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48519.12	13482.24	0.0200	---------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103833.28	29649.06	0.0400	---------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216453.20	61146.99	0.0800	-------	-------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
462082.10	125769.07	0.1600	---------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : 4-4-DDT

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8979.98	2539.98	0.0048	-------	-------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20254.38	5758.37	0.0100	-------	-------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37323.11	10714.33	0.0200	-------	-------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84863.34	24209.37	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179544.78	51388.93	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
386284.62	108689.78	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDRIN ALDEHYDE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11793.00	3195.74	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24834.45	6772.52	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43308.30	11871.42	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93911.22	25368.59	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
181230.61	48948.09	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
359108.71	94872.26	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDOSULFAN SULFATE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11533.41	3255.04	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24568.34	6972.94	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43672.36	12317.74	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95052.90	27167.91	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
202371.43	55339.71	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
428401.26	114110.27	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : METHOXYCHLOR

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27134.19	7553.54	0.0240	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57940.68	16342.46	0.0500	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103376.62	29061.78	0.1000	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212513.83	59541.57	0.2000	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
410873.18	112332.72	0.4000	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
788336.31	212393.73	0.8000	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : ENDRIN KETONE

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13905.17	3819.90	0.0048	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30623.03	8399.29	0.0100	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55165.82	15318.98	0.0200	----------	----------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124691.84	34241.86	0.0400	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
258888.47	70368.98	0.0800	----------	----------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
532467.80	139151.36	0.1600	----------	----------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Component : DECACHLOROBIPHENYL

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10153.51	2125.50	0.0024	----------	----------	10/16/09	10:16:06	E:\Gtoct09\H101509.rst

Level : 5

10/16/09 10:17:58 Method: E:\Methods\HAB101509.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20009.32	4146.47	0.0050	---------	-------	10/16/09	10:16:05	E:\Gtoct09\H101508.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41203.77	8315.50	0.0100	---------	-------	10/16/09	10:16:05	E:\Gtoct09\H101507.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81550.33	16287.50	0.0200	--------	--------	10/16/09	10:16:04	E:\Gtoct09\H101506.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156951.08	30826.48	0.0400	-------	---------	10/16/09	10:16:04	E:\Gtoct09\H101505.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322975.51	61956.61	0.0800	---------	-------	10/16/09	10:16:03	E:\Gtoct09\H101504.rst

Turbochrom Method File E:\Methods\HTOX101509.mth
Printed by : manager on: 10/16/09 10:21:15
Created by : manager on: 10/16/09 09:49:27
Edited by : manager on: 10/16/09 10:21:13
Number of Times Edited : 2
Number of Times Calibrated : 91
Description: INDIV.AB PEST CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

TOX-1
Component Type : Single Peak Component
Retention Time : 11.093 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	356.87	77.84	----------	----------	1
4	0.1000	1653.74	239.07	----------	----------	1
2	1.0000	22487.29	3601.26	----------	----------	1
1	2.0000	49269.49	7648.87	----------	----------	1
3	0.5000	10526.78	1681.73	----------	----------	1

Calibration Curve : y = (-1387.832478) + (24995.431956)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.998414

TOX-2
Component Type : Single Peak Component
Retention Time : 11.959 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	2203.41	441.51	----------	----------	1
4	0.1000	4371.92	846.58	----------	----------	1
2	1.0000	66621.59	10845.08	----------	----------	1
1	2.0000	140682.19	22669.79	----------	----------	1
3	0.5000	32782.76	5323.90	----------	----------	1

Calibration Curve : y = (-2611.019183) + (71155.332589)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999522

10/16/09 10:21:15 Method: E:\Methods\HTOX101509.mth

TOX-3
Component Type : Single Peak Component
Retention Time : 13.351 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	5568.91	1282.86	----------	----------	1
4	0.1000	10840.87	2418.71	----------	----------	1
2	1.0000	158919.09	29511.23	----------	----------	1
1	2.0000	339422.23	61281.06	----------	----------	1
3	0.5000	77206.43	14320.03	----------	----------	1

Calibration Curve : y = (-6815.659653) + (171516.664670)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999196

TOX-4
Component Type : Single Peak Component
Retention Time : 13.927 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	3189.89	694.18	----------	----------	1
4	0.1000	6114.61	1317.10	----------	----------	1
2	1.0000	91170.79	17344.92	----------	----------	1
1	2.0000	193883.46	37279.37	----------	----------	1
3	0.5000	43278.46	8471.97	----------	----------	1

Calibration Curve : y = (-4088.066479) + (98103.437817)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.999208

TOX-5
Component Type : Single Peak Component
Retention Time : 15.077 min
Search Window : 1.08 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: 1
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/16/09 10:21:15 Method: E:\Methods\HTOX101509.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	6201.02	873.02	----------	----------	1
4	0.1000	12216.85	1666.07	----------	----------	1
2	1.0000	80587.22	16102.37	----------	----------	1
1	2.0000	173593.41	34029.54	----------	----------	1
3	0.5000	42179.15	7987.21	----------	----------	1

Calibration Curve : y = (967.999974) + (84914.424422)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997551

Calibration Replicate Lists

Component : TOX-1

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
356.87	77.84	0.0500	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101514.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1653.74	239.07	0.1000	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22487.29	3601.26	1.0000	----------	----------	10/16/09	10:20:24	E:\Gtoct09\H101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49269.49	7648.87	2.0000	----------	----------	10/16/09	10:20:24	E:\Gtoct09\H101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10526.78	1681.73	0.5000	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101512.rst

Component : TOX-2

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2203.41	441.51	0.0500	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101514.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4371.92	846.58	0.1000	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66621.59	10845.08	1.0000	----------	----------	10/16/09	10:20:24	E:\Gtoct09\H101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140682.19	22669.79	2.0000	----------	----------	10/16/09	10:20:24	E:\Gtoct09\H101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32782.76	5323.90	0.5000	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101512.rst

Component : TOX-3

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5568.91	1282.86	0.0500	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101514.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10840.87	2418.71	0.1000	----------	----------	10/16/09	10:20:25	E:\Gtoct09\H101513.rst

10/16/09 10:21:15 Method: E:\Methods\HTOX101509.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158919.09	29511.23	1.0000	---------	---------	10/16/09	10:20:24	E:\Gtoct09\H101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
339422.23	61281.06	2.0000	---------	---------	10/16/09	10:20:24	E:\Gtoct09\H101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77206.43	14320.03	0.5000	---------	---------	10/16/09	10:20:25	E:\Gtoct09\H101512.rst

Component : TOX-4

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3189.89	694.18	0.0500	-------	-------	10/16/09	10:20:25	E:\Gtoct09\H101514.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6114.61	1317.10	0.1000	-------	-------	10/16/09	10:20:25	E:\Gtoct09\H101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91170.79	17344.92	1.0000	-------	-------	10/16/09	10:20:24	E:\Gtoct09\H101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
193883.46	37279.37	2.0000	---------	---------	10/16/09	10:20:24	E:\Gtoct09\H101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43278.46	8471.97	0.5000	-------	---------	10/16/09	10:20:25	E:\Gtoct09\H101512.rst

Component : TOX-5

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6201.02	873.02	0.0500	-------	-------	10/16/09	10:20:25	E:\Gtoct09\H101514.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12216.85	1666.07	0.1000	---------	-------	10/16/09	10:20:25	E:\Gtoct09\H101513.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80587.22	16102.37	1.0000	---------	---------	10/16/09	10:20:24	E:\Gtoct09\H101511.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
173593.41	34029.54	2.0000	---------	---------	10/16/09	10:20:24	E:\Gtoct09\H101510.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42179.15	7987.21	0.5000	---------	-------	10/16/09	10:20:25	E:\Gtoct09\H101512.rst

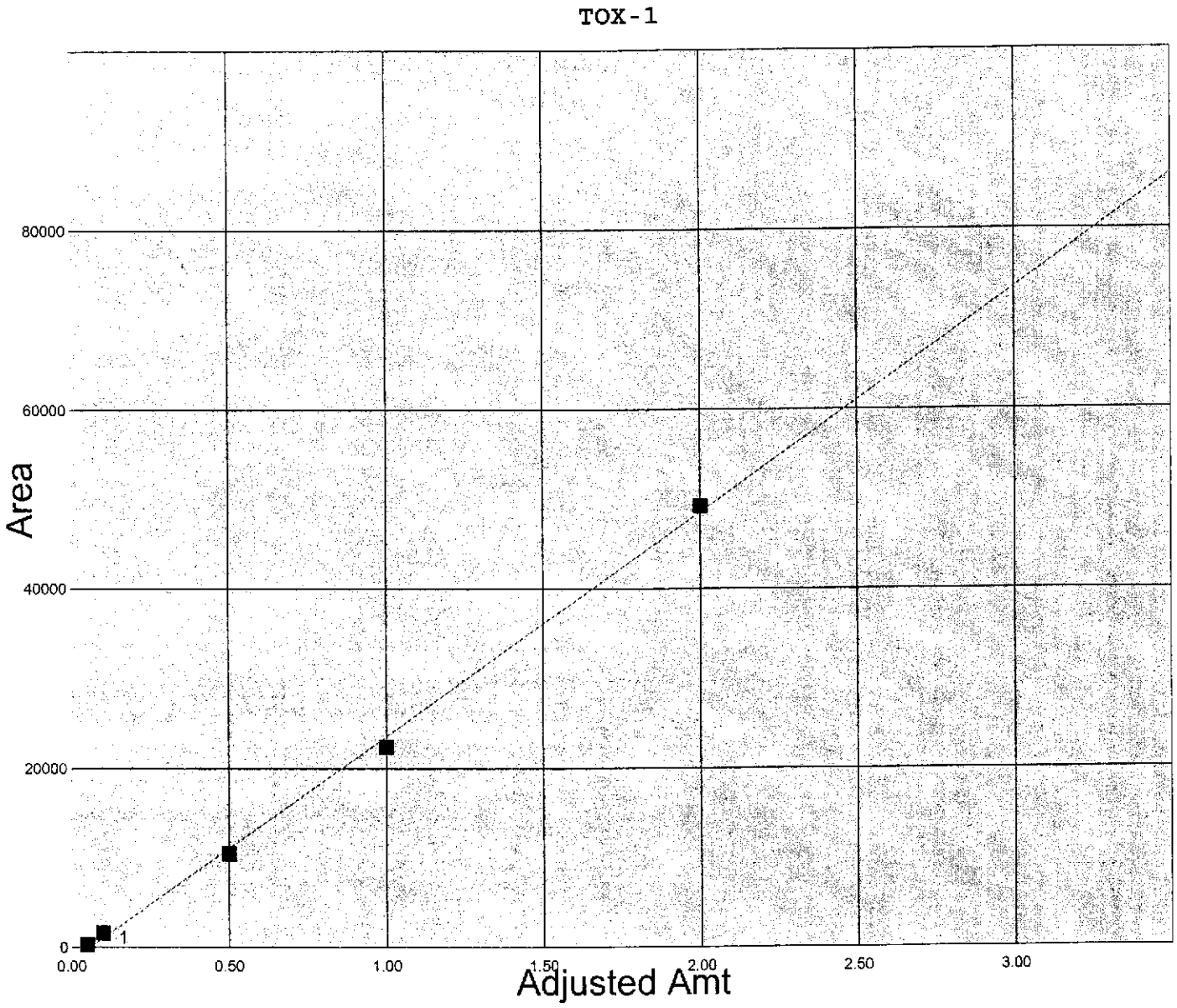
Fit Analysis Output For Method File: E:\METHODS\HTOX101509.MTH
Component Name : TOX-1
Date : 10/16/09 10:21:39

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.998414
Calibration Curve : Y = (-1387.832478) +(24995.431956) X

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	0.050000	0.069801	-0.019801	-28.368	356.868078	-138.061	494.929	-358.486
4	0.100000	0.121685	-0.021685	-17.821	1653.739036	1111.711	542.028	48.756
3	0.500000	0.476672	0.023328	4.894	10526.778533	11109.883	-583.105	-5.249
2	1.000000	0.955179	0.044821	4.692	22487.291654	23607.599	-1120.308	-4.746
1	2.000000	2.026663	-0.026663	-1.316	49269.486948	48603.031	666.456	1.371



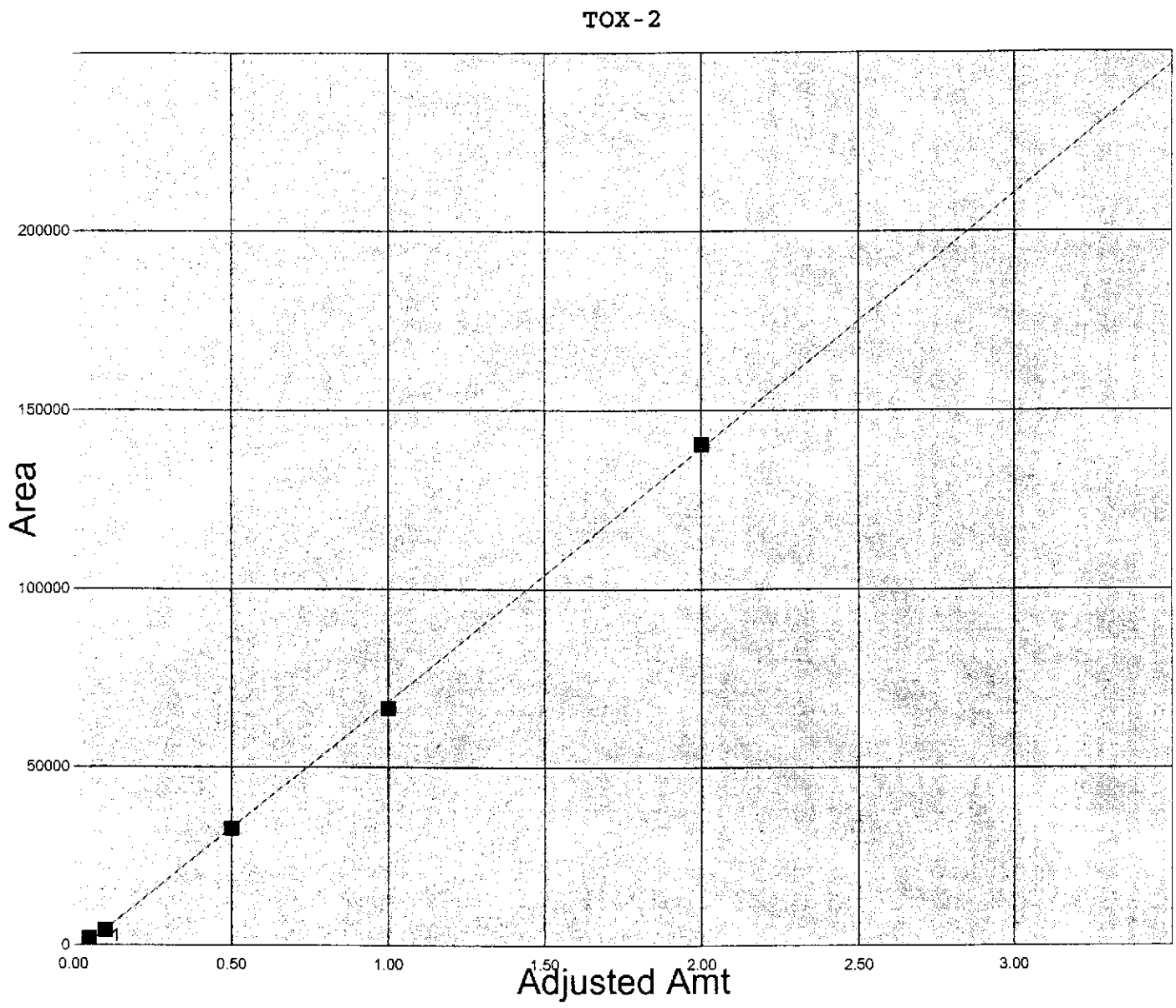
Fit Analysis Output For Method File: E:\METHODS\HTOX101509.MTH
Component Name : TOX-2
Date : 10/16/09 10:21:44

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999522
Calibration Curve : Y = (-2611.019183) +(71155.332589) X

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	0.050000	0.067661	-0.017661	-26.102	2203.405406	946.747	1256.658	132.734
4	0.100000	0.098137	0.001863	1.899	4371.917559	4504.514	-132.597	-2.944
3	0.500000	0.497416	0.002584	0.520	32782.764361	32966.647	-183.883	-0.558
2	1.000000	0.972978	0.027022	2.777	66621.587893	68544.313	-1922.726	-2.805
1	2.000000	2.013808	-0.013808	-0.686	140682.192816	139699.646	982.547	0.703



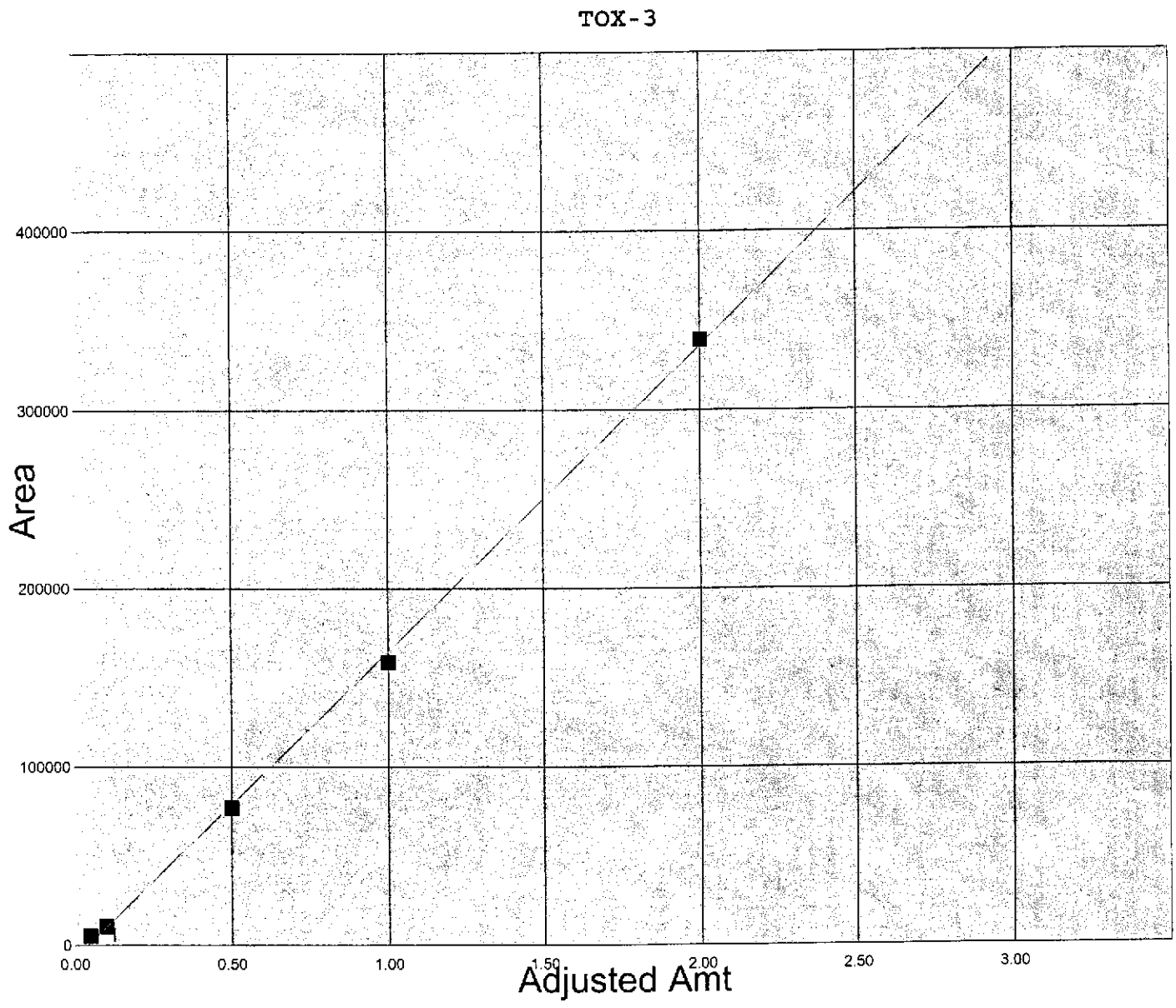
Fit Analysis Output For Method File: E:\METHODS\HTOX101509.MTH
Component Name : TOX-3
Date : 10/16/09 10:21:49

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999196
Calibration Curve : Y = (-6815.659653) +(171516.664670) X

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	0.050000	0.072206	-0.022206	-30.754	5568.912317	1760.174	3808.739	216.384
4	0.100000	0.102944	-0.002944	-2.859	10840.866986	10336.007	504.860	4.884
3	0.500000	0.489877	0.010123	2.066	77206.431933	78942.673	-1736.241	-2.199
2	1.000000	0.966289	0.033711	3.489	158919.091277	164701.005	-5781.914	-3.511
1	2.000000	2.018684	-0.018684	-0.926	339422.225268	336217.670	3204.556	0.953



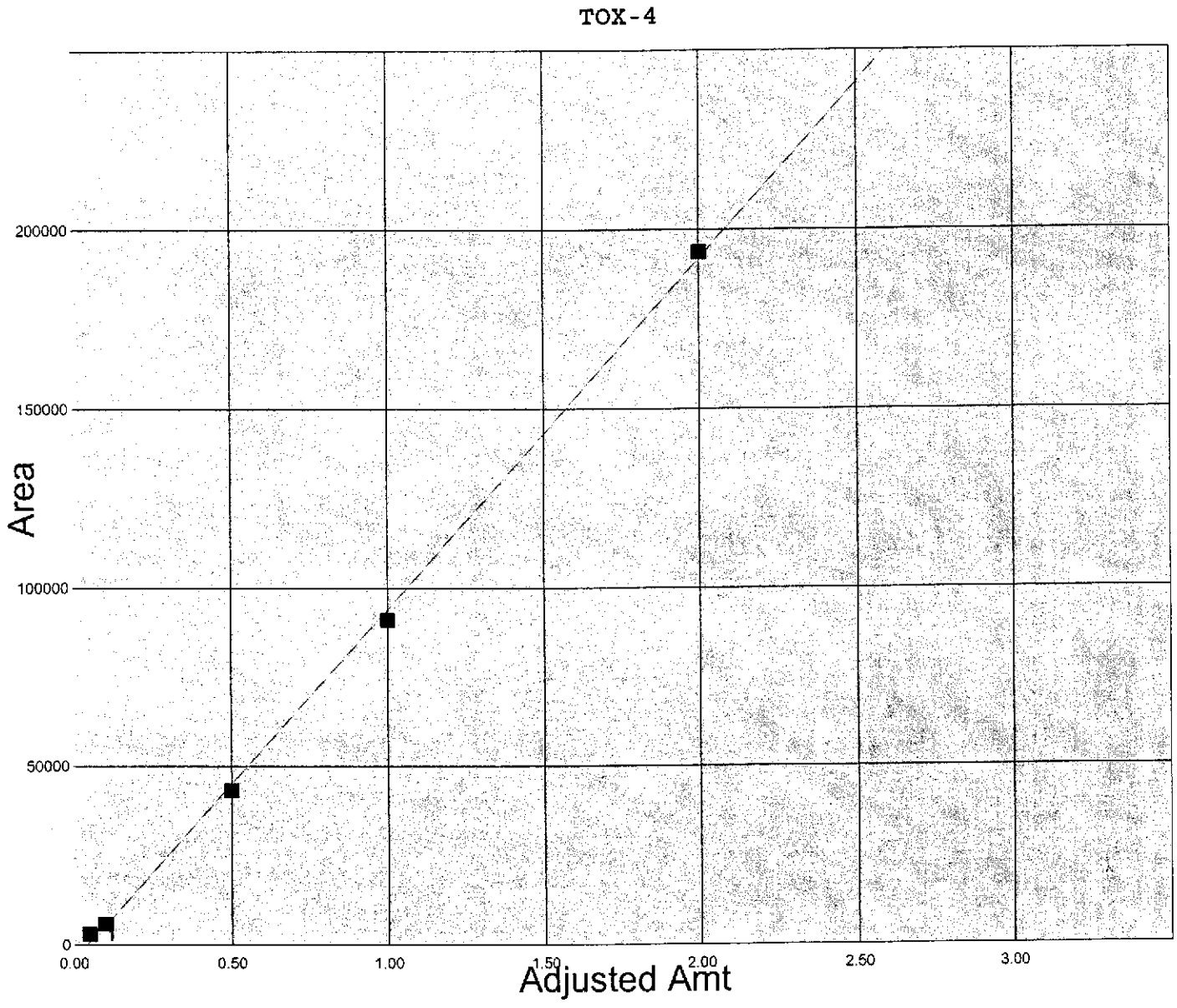
Fit Analysis Output For Method File: E:\METHODS\HTOX101509.MTH
Component Name : TOX-4
Date : 10/16/09 10:21:54

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.999208
Calibration Curve : Y = (-4088.066479) +(98103.437817) X

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	0.050000	0.074187	-0.024187	-32.602	3189.891124	817.105	2372.786	290.389
4	0.100000	0.103999	-0.003999	-3.845	6114.610625	5722.277	392.333	6.856
3	0.500000	0.482822	0.017178	3.558	43278.460857	44963.652	-1685.192	-3.748
2	1.000000	0.971004	0.028996	2.986	91170.793247	94015.371	-2844.578	-3.026
1	2.000000	2.017988	-0.017988	-0.891	193883.459785	192118.809	1764.651	0.919



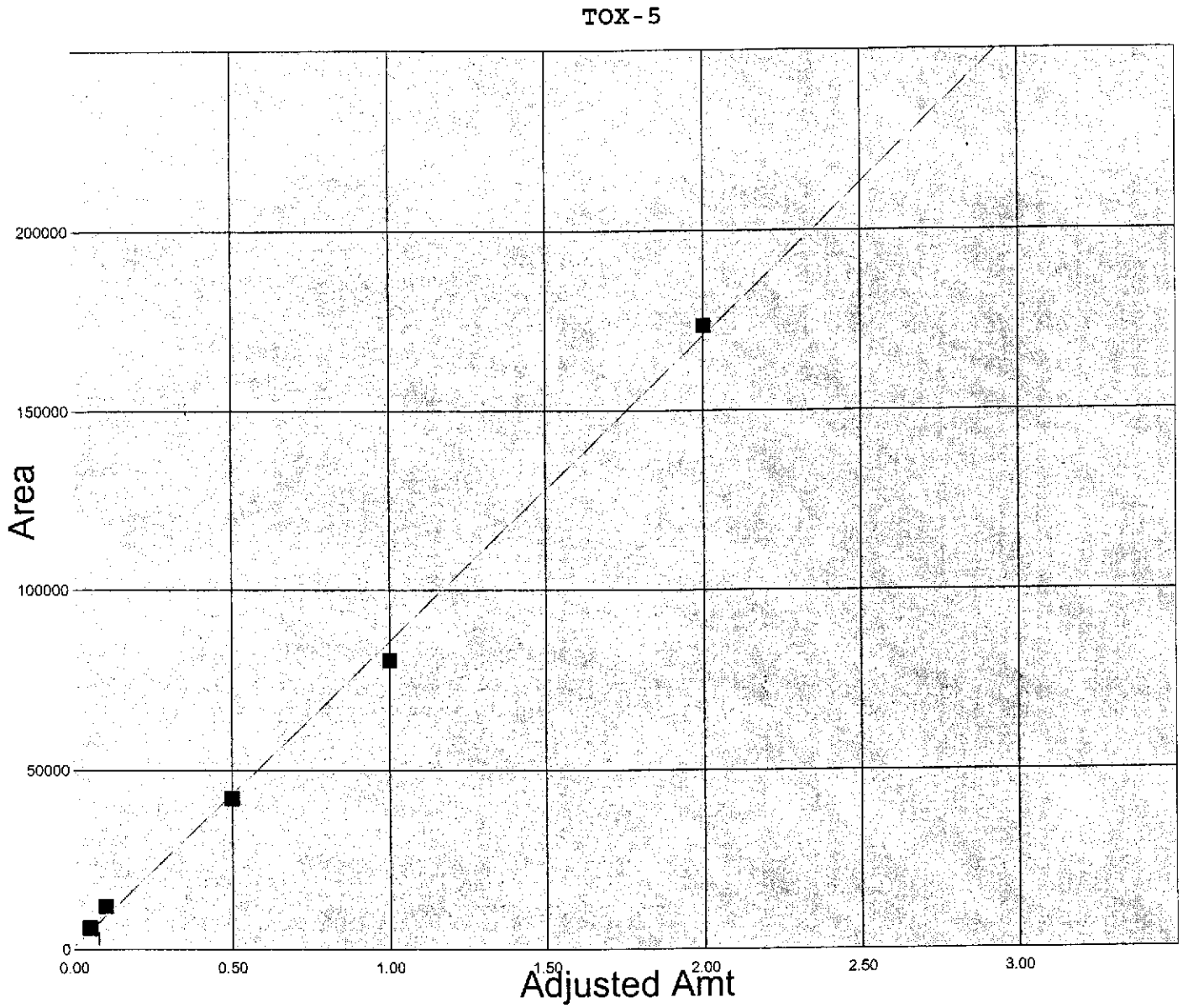
Fit Analysis Output For Method File: E:\METHODS\HTOX101509.MTH
Component Name : TOX-5
Date : 10/16/09 10:22:00

Curve Parameters:

Curve #1 : 1st Order
Weighting Factor = 1 (No Weighting) R-Squared = 0.997551
Calibration Curve : Y = (967.999974) +(84914.424422) X

Curve #1 :

Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	0.050000	0.061627	-0.011627	-18.867	6201.017786	5213.721	987.297	18.937
4	0.100000	0.132473	-0.032473	-24.513	12216.847543	9459.442	2757.405	29.150
3	0.500000	0.485326	0.014674	3.024	42179.151539	43425.212	-1246.061	-2.869
2	1.000000	0.937641	0.062359	6.651	80587.217273	85882.424	-5295.207	-6.166
1	2.000000	2.032934	-0.032934	-1.620	173593.414869	170796.849	2796.566	1.637



Turbochrom Method File E:\Methods\HCL101509.mth
Printed by : manager on: 10/16/09 10:23:05
Created by : manager on: 10/16/09 09:49:44
Edited by : manager on: 10/16/09 10:23:04
Number of Times Edited : 2
Number of Times Calibrated : 44
Description: CHLORDANE CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

CHLOR-TECH-1
Component Type : Single Peak Component
Retention Time : 8.161 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	57790.11	15868.73	----------	----------	1
2	0.2000	22643.91	6259.95	----------	----------	1
3	0.0500	5694.21	1590.34	----------	----------	1

Average Calibration Factor = 114228.000965 (%RSD = 1.07)

CHLOR-TECH-2
Component Type : Single Peak Component
Retention Time : 9.558 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	78405.72	19741.93	----------	----------	1
2	0.2000	31658.04	8152.98	----------	----------	1
3	0.0500	8175.33	2132.70	----------	----------	1

Average Calibration Factor = 159536.092391 (%RSD = 2.20)

CHLOR-TECH-3
Component Type : Single Peak Component
Retention Time : 10.921 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/16/09 10:23:05 Method: E:\Methods\HCL101509.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	205060.55	54960.78	----------	----------	1
2	0.2000	76643.75	20520.42	----------	----------	1
3	0.0500	18800.40	4962.98	----------	----------	1

Average Calibration Factor = 389782.629315 (%RSD = 4.61)

CHLOR-TECH-4
Component Type : Single Peak Component
Retention Time : 11.252 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	174605.41	47104.31	----------	----------	1
2	0.2000	65563.64	17800.25	----------	----------	1
3	0.0500	15964.38	4320.31	----------	----------	1

Average Calibration Factor = 332105.523753 (%RSD = 4.64)

CHLOR-TECH-5
Component Type : Single Peak Component
Retention Time : 13.264 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	52614.25	13441.12	----------	----------	1
2	0.2000	20222.85	5276.04	----------	----------	1
3	0.0500	4702.47	1272.64	----------	----------	1

Average Calibration Factor = 100130.706766 (%RSD = 5.65)

Calibration Replicate Lists
Component : CHLOR-TECH-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57790.11	15868.73	0.5000	---------	---------	10/16/09	10:22:58	E:\Gtoct09\H101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22643.91	6259.95	0.2000	---------	---------	10/16/09	10:22:59	E:\Gtoct09\H101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5694.21	1590.34	0.0500	---------	---------	10/16/09	10:22:59	E:\Gtoct09\H101517.rst

Component : CHLOR-TECH-2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78405.72	19741.93	0.5000	---------	---------	10/16/09	10:22:58	E:\Gtoct09\H101515.rst

10/16/09 10:23:05 Method: E:\Methods\HCL101509.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31658.04	8152.98	0.2000	---------	-------	10/16/09	10:22:59	E:\Gtoct09\H101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8175.33	2132.70	0.0500	---------	-------	10/16/09	10:22:59	E:\Gtoct09\H101517.rst

Component : CHLOR-TECH-3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205060.55	54960.78	0.5000	-------	---------	10/16/09	10:22:58	E:\Gtoct09\H101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76643.75	20520.42	0.2000	---------	---------	10/16/09	10:22:59	E:\Gtoct09\H101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18800.40	4962.98	0.0500	--------	--------	10/16/09	10:22:59	E:\Gtoct09\H101517.rst

Component : CHLOR-TECH-4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
174605.41	47104.31	0.5000	--------	---------	10/16/09	10:22:58	E:\Gtoct09\H101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65563.64	17800.25	0.2000	---------	---------	10/16/09	10:22:59	E:\Gtoct09\H101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15964.38	4320.31	0.0500	--------	---------	10/16/09	10:22:59	E:\Gtoct09\H101517.rst

Component : CHLOR-TECH-5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52614.25	13441.12	0.5000	--------	---------	10/16/09	10:22:58	E:\Gtoct09\H101515.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20222.85	5276.04	0.2000	---------	-------	10/16/09	10:22:59	E:\Gtoct09\H101516.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4702.47	1272.64	0.0500	---------	---------	10/16/09	10:22:59	E:\Gtoct09\H101517.rst

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	R18547
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GCGT_57G	**Initial Calibration ID:**	1651
Second Source ID:	PEST S.S.	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
4,4'-DDD	50	51	2.0	
4,4'-DDE	50	51	2.0	
4,4'-DDT	50	49	-2.0	
Aldrin	50	52	4.0	
alpha-BHC	50	56	12.0	
alpha-Chlordane	50	50	0	
beta-BHC	50	48	-4.0	
delta-BHC	50	55	10	
Dieldrin	50	52	4.0	
Endosulfan I	50	50	0	
Endosulfan II	50	50	0	
Endosulfan sulfate	50	51	2.0	
Endrin	50	49	-2.0	
Endrin aldehyde	50	49	-2.0	
gamma-BHC	50	53	6.0	
gamma-Chlordane	50	51	2.0	
Heptachlor	50	47	-6.0	
Heptachlor epoxide	50	49	-2.0	
Methoxychlor	50	52	4.0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	R18547
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GCGT_57G	**Initial Calibration ID:**	1651
Second Source ID:	TOX S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Toxaphene	500	420	-15.4	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	R18548
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GCGT_57H	**Initial Calibration ID:**	1652
Second Source ID:	PEST S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
4,4´-DDD	50	50	0.2	
4,4´-DDE	50	50	0.8	
4,4´-DDT	50	50	-0.2	
Aldrin	50	54	8.4	
alpha-BHC	50	51	2.8	
alpha-Chlordane	50	54	7.2	
beta-BHC	50	52	4.6	
delta-BHC	50	51	2.8	
Dieldrin	50	52	3.8	
Endosulfan I	50	53	5.2	
Endosulfan II	50	50	0.4	
Endosulfan sulfate	50	51	2.8	
Endrin	50	49	-1.2	
Endrin aldehyde	50	47	-5.2	
gamma-BHC	50	51	2.6	
gamma-Chlordane	50	53	6.4	
Heptachlor	50	51	2.0	
Heptachlor epoxide	50	52	3.8	
Methoxychlor	50	53	6.8	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	R18548
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GCGT_57H	**Initial Calibration ID:**	1652
Second Source ID:	TOX S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Toxaphene	500	570	13.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	18547
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GCGT_57G	**Initial Calibration ID:**	1651

SEE ATTACHED CALIBRATION VERIFICATION

Comments:

PESTICIDE/PCB
CONTINUING CALIBRATION SUMMARY

INSTRUMENT: HP5890-GT SEQUENCE: GT101509.SEQ COLUMN: RTXCLP

		Name: INDAB-3 File: G101524 Date: 10/16/09 Time 01:01		Name: INDAB-3 File: G101546 Date: 10/16/09 Time 10:33		Name: INDAB-3 File: G101563 Date: 10/16/09 Time 17:19	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
ALPHA-BHC	0.02	.0207	4	.0224	12	.0199	0
LINDANE	0.02	.0206	3	.0220	10	.0199	0
HEPTACHLOR	0.02	.0202	1	.0208	4	.0202	1
ENDOSULFAN I	0.02	.0205	3	.0217	9	.0191	5
DIELDRIN	0.04	.0416	4	.0433	8	.0399	0
ENDRIN	0.04	.0399	0	.0413	3	.0405	1
4-4-DDD	0.04	.0404	1	.0431	8	.0441	10
4-4-DDT	0.04	.0415	4	.0439	10	.0401	0
METHOXYCHLOR	0.20	.207	3	.200	0	.211	5
B-BHC	0.02	.0206	3	.0217	9	.0196	2
D-BHC	0.02	.0208	4	.0221	11	.0202	1
ALDRIN	0.02	.0202	1	.0214	7	.0194	3
HEPTACHLOR EPOXIDE	0.02	.0204	2	.0215	7	.0194	3
G-CHLORDANE	0.02	.0203	1	.0214	7	.0194	3
A-CHLORDANE	0.02	.0204	2	.0208	4	.0188	6
4-4-DDE	0.04	.0407	2	.0434	9	.0407	2
ENDOSULFAN II	0.04	.0410	3	.0451	13	.0410	3
ENDRIN ALDEHYDE	0.04	.0436	9	.0456	14	.0401	0
ENDOSULFAN SULFATE	0.04	.0409	2	.0423	6	.0378	6
ENDRIN KETONE	0.04	.0436	9	.0448	12	.0405	1
TECH. CHLORDANE	0.20						
TOXAPHENE	0.50						
AR1016	0.40						
AR1221	0.40						
AR1232	0.40						
AR1242	0.40						
AR1248	0.40						
AR1254	0.40						
AR1260	0.40						
HEXACHLOROBENZENE	0.10						
AVERAGE % D			3		8		3

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PESTICIDE/PCB
CONTINUING CALIBRATION SUMMARY

INSTRUMENT: HP5890-GT SEQUENCE: GT101509.SEQ COLUMN: RTXCLP

		Name: TOX-3 File: G101564 Date: 10/16/09 Time 17:43		Name: INDAB-3 File: G101570 Date: 10/16/09 Time 20:08		Name: File: Date: Time	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
ALPHA-BHC	0.02			.0201	0		
LINDANE	0.02			.0201	0		
HEPTACHLOR	0.02			.0201	0		
ENDOSULFAN I	0.02			.0195	3		
DIELDRIN	0.04			.0404	1		
ENDRIN	0.04			.0405	1		
4-4-DDD	0.04			.0439	10		
4-4-DDT	0.04			.0403	1		
METHOXYCHLOR	0.20			.203	2		
B-BHC	0.02			.0197	2		
D-BHC	0.02			.0203	1		
ALDRIN	0.02			.0197	2		
HEPTACHLOR EPOXIDE	0.02			.0196	2		
G-CHLORDANE	0.02			.0197	2		
A-CHLORDANE	0.02			.0191	5		
4-4-DDE	0.04			.0408	2		
ENDOSULFAN II	0.04			.0420	5		
ENDRIN ALDEHYDE	0.04			.0408	2		
ENDOSULFAN SULFATE	0.04			.0391	2		
ENDRIN KETONE	0.04			.0413	3		
TECH. CHLORDANE	0.20						
TOXAPHENE	0.50	.501	0				
AR1016	0.40						
AR1221	0.40						
AR1232	0.40						
AR1242	0.40						
AR1248	0.40						
AR1254	0.40						
AR1260	0.40						
HEXACHLOROBENZENE	0.10						
AVERAGE % D			0		2		#DIV/0!

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AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method:	SW8081A	**AAB #:**	18548
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GCGT_57H	**Initial Calibration ID:**	1652

SEE ATTACHED CALIBRATION VERIFICATION

Comments:

PESTICIDE/PCB
CONTINUING CALIBRATION SUMMARY

INSTRUMENT: HP5890-GT SEQUENCE: GT101509.SEQ COLUMN: RTXCLP2

		Name: INDAB-3 File: H101524 Date: 10/16/09 Time 01:01		Name: INDAB-3 File: H101546 Date: 10/16/09 Time 10:33		Name: INDAB-3 File: H101563 Date: 10/16/09 Time 17:19	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
ALPHA-BHC	0.02	.0200	0	.0200	0	.0196	2
LINDANE	0.02	.0200	0	.0199	0	.0195	3
HEPTACHLOR	0.02	.0198	1	.0191	5	.0197	2
ENDOSULFAN I	0.02	.0197	2	.0199	0	.0193	4
DIELDRIN	0.04	.0399	0	.0398	0	.0395	1
ENDRIN	0.04	.0384	4	.0404	1	.0398	0
4-4-DDD	0.04	.0390	3	.0421	5	.0411	3
4-4-DDT	0.04	.0410	3	.0404	1	.0367	8
METHOXYCHLOR	0.20	.204	2	.186	7	.209	4
B-BHC	0.02	.0199	0	.0202	1	.0194	3
D-BHC	0.02	.0199	0	.0200	0	.0198	1
ALDRIN	0.02	.0194	3	.0194	3	.0191	5
HEPTACHLOR EPOXIDE	0.02	.0197	2	.0206	3	.0198	1
G-CHLORDANE	0.02	.0196	2	.0197	2	.0193	4
A-CHLORDANE	0.02	.0197	2	.0197	2	.0193	4
4-4-DDE	0.04	.0396	1	.0401	0	.0392	2
ENDOSULFAN II	0.04	.0398	0	.0429	7	.0388	3
ENDRIN ALDEHYDE	0.04	.0420	5	.0420	5	.0401	0
ENDOSULFAN SULFATE	0.04	.0394	2	.0398	0	.0389	3
ENDRIN KETONE	0.04	.0417	4	.0422	6	.0410	3
TECH. CHLORDANE	0.20						
TOXAPHENE	0.50						
AR1016	0.40						
AR1221	0.40						
AR1232	0.40						
AR1242	0.40						
AR1248	0.40						
AR1254	0.40						
AR1260	0.40						
HEXACHLOROBENZENE	0.10						
AVERAGE % D			2		2		3

PESTICIDE/PCB
CONTINUING CALIBRATION SUMMARY

INSTRUMENT: HP5890-GT SEQUENCE: GT101509.SEQ COLUMN: RTXCLP2

		Name: TOX-3 File: H101564 Date: 10/16/09 Time 17:43		Name: INDAB-3 File: H101570 Date: 10/16/09 Time 20:08		Name: File: Date: Time	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
ALPHA-BHC	0.02			.0196	2		
LINDANE	0.02			.0196	2		
HEPTACHLOR	0.02			.0195	3		
ENDOSULFAN I	0.02			.0194	3		
DIELDRIN	0.04			.0395	1		
ENDRIN	0.04			.0395	1		
4-4-DDD	0.04			.0410	3		
4-4-DDT	0.04			.0366	9		
METHOXYCHLOR	0.20			.202	1		
B-BHC	0.02			.0196	2		
D-BHC	0.02			.0198	1		
ALDRIN	0.02			.0190	5		
HEPTACHLOR EPOXIDE	0.02			.0200	0		
G-CHLORDANE	0.02			.0192	4		
A-CHLORDANE	0.02			.0192	4		
4-4-DDE	0.04			.0392	2		
ENDOSULFAN II	0.04			.0391	2		
ENDRIN ALDEHYDE	0.04			.0403	1		
ENDOSULFAN SULFATE	0.04			.0393	2		
ENDRIN KETONE	0.04			.0412	3		
TECH. CHLORDANE	0.20						
TOXAPHENE	0.50	.448	10				
AR1016	0.40						
AR1221	0.40						
AR1232	0.40						
AR1242	0.40						
AR1248	0.40						
AR1254	0.40						
AR1260	0.40						
HEXACHLOROBENZENE	0.10						
AVERAGE % D			10		3		#DIV/0!

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AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8081A	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10117
Initial Calibration ID:	1651	**File ID:**	E:\Gtoct09\G101530.rst

Analyte	Method Blank	RL	Q
alpha-BHC	0.00033	0.0017	U
beta-BHC	0.00084	0.0017	U
delta-BHC	0.00046	0.0017	U
gamma-BHC	0.00037	0.0017	U
alpha-Chlordane	0.00035	0.0017	U
gamma-Chlordane	0.00042	0.0017	U
4,4´-DDD	0.00035	0.0033	U
4,4´-DDE	0.00037	0.0033	U
4,4´-DDT	0.00043	0.0033	U
Aldrin	0.00040	0.0017	U
Dieldrin	0.00042	0.0033	U
Endosulfan I	0.00031	0.0017	U
Endosulfan II	0.00037	0.0033	U
Endosulfan sulfate	0.00062	0.0033	U
Endrin	0.00065	0.0033	U
Endrin aldehyde	0.00047	0.0033	U
Heptachlor	0.00051	0.0017	U
Heptachlor epoxide	0.00045	0.0017	U
Methoxychlor	0.00044	0.017	U
Toxaphene	0.0067	0.10	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	86	56 - 132	
Tetrachloro-m-xylene	86	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8081A	**AAB #:**	10117
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10117
Initial Calibration ID:	1652	**File ID:**	E:\Gtoct09\H101530.rst

Analyte	Method Blank	RL	Q
alpha-BHC	0.00033	0.0017	U
beta-BHC	0.00084	0.0017	U
delta-BHC	0.00046	0.0017	U
gamma-BHC	0.00037	0.0017	U
alpha-Chlordane	0.00035	0.0017	U
gamma-Chlordane	0.00042	0.0017	U
4,4´-DDD	0.00035	0.0033	U
4,4´-DDE	0.00037	0.0033	U
4,4´-DDT	0.00043	0.0033	U
Aldrin	0.00040	0.0017	U
Dieldrin	0.00042	0.0033	U
Endosulfan I	0.00031	0.0017	U
Endosulfan II	0.00037	0.0033	U
Endosulfan sulfate	0.00062	0.0033	U
Endrin	0.00065	0.0033	U
Endrin aldehyde	0.00047	0.0033	U
Heptachlor	0.00051	0.0017	U
Heptachlor epoxide	0.00045	0.0017	U
Methoxychlor	0.00044	0.017	U
Toxaphene	0.0067	0.10	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	90	56 - 132	
Tetrachloro-m-xylene	94	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-10117 **Initial Calibration ID:** 1651

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\G101531.rst

Analyte	Expected	Found	%R	Control Limits	Q
alpha-BHC	0.0167	0.017	99	62 - 125	
beta-BHC	0.0167	0.015	88	62 - 127	
delta-BHC	0.0167	0.016	98	57 - 130	
gamma-BHC	0.0167	0.016	95	59 - 123	
alpha-Chlordane	0.0167	0.015	90	63 - 121	
gamma-Chlordane	0.0167	0.015	91	48 - 124	
4,4´-DDD	0.0167	0.016	93	50 - 139	
4,4´-DDE	0.0167	0.015	92	68 - 126	
4,4´-DDT	0.0167	0.015	89	46 - 135	
Aldrin	0.0167	0.015	92	47 - 120	
Dieldrin	0.0167	0.016	94	67 - 125	
Endosulfan I	0.0167	0.015	89	41 - 147	
Endosulfan II	0.0167	0.015	91	37 - 141	
Endosulfan sulfate	0.0167	0.015	92	62 - 135	
Endrin	0.0167	0.016	96	61 - 133	
Endrin aldehyde	0.0167	0.0074	45	37 - 147	
Heptachlor	0.0167	0.015	87	51 - 140	
Heptachlor epoxide	0.0167	0.015	89	66 - 130	
Methoxychlor	0.0167	0.020	118	57 - 143	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	94	56 - 132	
Tetrachloro-m-xylene	93	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-10117 **Initial Calibration ID:** 1651

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\G101532.rst

Analyte	Expected	Found	%R	Control Limits	Q
alpha-BHC	0.0167	0.017	104	62 - 125	
beta-BHC	0.0167	0.015	92	62 - 127	
delta-BHC	0.0167	0.017	103	57 - 130	
gamma-BHC	0.0167	0.017	100	59 - 123	
alpha-Chlordane	0.0167	0.016	93	63 - 121	
gamma-Chlordane	0.0167	0.016	95	48 - 124	
4,4´-DDD	0.0167	0.016	98	50 - 139	
4,4´-DDE	0.0167	0.016	96	68 - 126	
4,4´-DDT	0.0167	0.016	96	46 - 135	
Aldrin	0.0167	0.016	96	47 - 120	
Dieldrin	0.0167	0.016	98	67 - 125	
Endosulfan I	0.0167	0.016	93	41 - 147	
Endosulfan II	0.0167	0.016	96	37 - 141	
Endosulfan sulfate	0.0167	0.016	96	62 - 135	
Endrin	0.0167	0.017	100	61 - 133	
Endrin aldehyde	0.0167	0.0075	45	37 - 147	
Heptachlor	0.0167	0.015	91	51 - 140	
Heptachlor epoxide	0.0167	0.015	92	66 - 130	
Methoxychlor	0.0167	0.021	123	57 - 143	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	90	56 - 132	
Tetrachloro-m-xylene	89	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: TLCS-10117 **Initial Calibration ID:** 1651

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\G101533.rst

Analyte	Expected	Found	%R	Control Limits	Q
Toxaphene	0.167	0.16	99	31 - 136	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	0	0 - 0	
Tetrachloro-m-xylene	0	0 - 0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: TLCSD-10117 **Initial Calibration ID:** 1651

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\G101534.rst

Analyte	Expected	Found	%R	Control Limits	Q
Toxaphene	0.167	0.17	104	31 - 136	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	0	0 - 0	
Tetrachloro-m-xylene	0	0 - 0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-10117 **Initial Calibration ID:** 1652

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\H101531.rst

Analyte	Expected	Found	%R	Control Limits	Q
alpha-BHC	0.0167	0.015	90	62 - 125	
beta-BHC	0.0167	0.015	91	62 - 127	
delta-BHC	0.0167	0.015	92	57 - 130	
gamma-BHC	0.0167	0.015	90	59 - 123	
alpha-Chlordane	0.0167	0.016	94	63 - 121	
gamma-Chlordane	0.0167	0.016	93	48 - 124	
4,4´-DDD	0.0167	0.016	93	50 - 139	
4,4´-DDE	0.0167	0.015	89	68 - 126	
4,4´-DDT	0.0167	0.017	101	46 - 135	
Aldrin	0.0167	0.016	95	47 - 120	
Dieldrin	0.0167	0.015	92	67 - 125	
Endosulfan I	0.0167	0.015	93	41 - 147	
Endosulfan II	0.0167	0.017	101	37 - 141	
Endosulfan sulfate	0.0167	0.016	94	62 - 135	
Endrin	0.0167	0.016	95	61 - 133	
Endrin aldehyde	0.0167	0.0084	50	37 - 147	
Heptachlor	0.0167	0.015	88	51 - 140	
Heptachlor epoxide	0.0167	0.015	92	66 - 130	
Methoxychlor	0.0167	0.016	98	57 - 143	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	98	56 - 132	
Tetrachloro-m-xylene	104	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-10117 **Initial Calibration ID:** 1652

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\H101532.rst

Analyte	Expected	Found	%R	Control Limits	Q
alpha-BHC	0.0167	0.016	94	62 - 125	
beta-BHC	0.0167	0.016	95	62 - 127	
delta-BHC	0.0167	0.016	96	57 - 130	
gamma-BHC	0.0167	0.016	94	59 - 123	
alpha-Chlordane	0.0167	0.016	98	63 - 121	
gamma-Chlordane	0.0167	0.016	97	48 - 124	
4,4´-DDD	0.0167	0.016	98	50 - 139	
4,4´-DDE	0.0167	0.016	93	68 - 126	
4,4´-DDT	0.0167	0.018	105	46 - 135	
Aldrin	0.0167	0.017	100	47 - 120	
Dieldrin	0.0167	0.016	96	67 - 125	
Endosulfan I	0.0167	0.016	97	41 - 147	
Endosulfan II	0.0167	0.018	105	37 - 141	
Endosulfan sulfate	0.0167	0.016	98	62 - 135	
Endrin	0.0167	0.017	99	61 - 133	
Endrin aldehyde	0.0167	0.0085	51	37 - 147	
Heptachlor	0.0167	0.015	92	51 - 140	
Heptachlor epoxide	0.0167	0.016	97	66 - 130	
Methoxychlor	0.0167	0.017	102	57 - 143	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	92	56 - 132	
Tetrachloro-m-xylene	99	69 - 124	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: TLCS-10117 **Initial Calibration ID:** 1652

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\H101533.rst

Analyte	Expected	Found	%R	Control Limits	Q
Toxaphene	0.167	0.15	92	31 - 136	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	0	0 - 0	
Tetrachloro-m-xylene	0	0 - 0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: TLCSD-10117 **Initial Calibration ID:** 1652

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\Gtoct09\H101534.rst

Analyte	Expected	Found	%R	Control Limits	Q
Toxaphene	0.167	0.16	94	31 - 136	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	0	0 - 0	
Tetrachloro-m-xylene	0	0 - 0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: LCSD-10117 **MS ID:** LCS-10117 **MSD ID:** LCSD-10117

Calibration ID: 1651

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
alpha-BHC		0.017	0.017	99	0.017	104	5	62 - 125	50	
beta-BHC		0.017	0.015	88	0.015	92	4	62 - 127	50	
delta-BHC		0.017	0.016	98	0.017	103	5	57 - 130	50	
gamma-BHC		0.017	0.016	95	0.017	100	5	59 - 123	50	
alpha-Chlordane		0.017	0.015	90	0.016	93	3	63 - 121	50	
gamma-Chlordane		0.017	0.015	91	0.016	95	4	48 - 124	50	
4,4'-DDD		0.017	0.016	93	0.016	98	5	50 - 139	50	
4,4'-DDE		0.017	0.015	92	0.016	96	5	68 - 126	50	
4,4'-DDT		0.017	0.015	89	0.016	96	7	46 - 135	50	
Aldrin		0.017	0.015	92	0.016	96	4	47 - 120	50	
Dieldrin		0.017	0.016	94	0.016	98	4	67 - 125	50	
Endosulfan I		0.017	0.015	89	0.016	93	4	41 - 147	50	
Endosulfan II		0.017	0.015	91	0.016	96	6	37 - 141	50	
Endosulfan sulfate		0.017	0.015	92	0.016	96	4	62 - 135	50	
Endrin		0.017	0.016	96	0.017	100	4	61 - 133	50	
Endrin aldehyde		0.017	0.0074	45	0.0075	45	1	37 - 147	50	
Heptachlor		0.017	0.015	87	0.015	91	4	51 - 140	50	
Heptachlor epoxide		0.017	0.015	89	0.015	92	4	66 - 130	50	
Methoxychlor		0.017	0.020	118	0.021	123	4	57 - 143	50	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: LCSD-10117 **MS ID:** LCS-10117 **MSD ID:** LCSD-10117

Calibration ID: 1652

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
alpha-BHC		0.017	0.015	90	0.016	94	4	62 - 125	50	
beta-BHC		0.017	0.015	91	0.016	95	5	62 - 127	50	
delta-BHC		0.017	0.015	92	0.016	96	4	57 - 130	50	
gamma-BHC		0.017	0.015	90	0.016	94	4	59 - 123	50	
alpha-Chlordane		0.017	0.016	94	0.016	98	5	63 - 121	50	
gamma-Chlordane		0.017	0.016	93	0.016	97	5	48 - 124	50	
4,4´-DDD		0.017	0.016	93	0.016	98	5	50 - 139	50	
4,4´-DDE		0.017	0.015	89	0.016	93	4	68 - 126	50	
4,4´-DDT		0.017	0.017	101	0.018	105	4	46 - 135	50	
Aldrin		0.017	0.016	95	0.017	100	5	47 - 120	50	
Dieldrin		0.017	0.015	92	0.016	96	5	67 - 125	50	
Endosulfan I		0.017	0.015	93	0.016	97	5	41 - 147	50	
Endosulfan II		0.017	0.017	101	0.018	105	4	37 - 141	50	
Endosulfan sulfate		0.017	0.016	94	0.016	98	4	62 - 135	50	
Endrin		0.017	0.016	95	0.017	99	5	61 - 133	50	
Endrin aldehyde		0.017	0.0084	50	0.0085	51	2	37 - 147	50	
Heptachlor		0.017	0.015	88	0.015	92	4	51 - 140	50	
Heptachlor epoxide		0.017	0.015	92	0.016	97	5	66 - 130	50	
Methoxychlor		0.017	0.016	98	0.017	102	4	57 - 143	50	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: TLCSD-10117 **MS ID:** TLCS-10117 **MSD ID:** TLCSD-10117

Calibration ID: 1651

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Toxaphene		0.17	0.16	99	0.17	104	6	31 - 136	50	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: TLCSD-10117 **MS ID:** TLCS-10117 **MSD ID:** TLCSD-10117

Calibration ID: 1652

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Toxaphene		0.17	0.15	92	0.16	94	3	31 - 136	50	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8081A **AAB #:** 10117

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
SMCSD0101FA	0910009-001A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.1	16-Oct-09	40	6.6	
SMCSD0101FA	0910009-001A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.1	16-Oct-09	40	6.6	
SMCSD0401FA	0910009-002A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	
SMCSD0401FA	0910009-002A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	
SMCSD0401FC	0910009-003A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	
SMCSD0401FC	0910009-003A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	
SMCSD0501FA	0910009-004A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	
SMCSD0501FA	0910009-004A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	16-Oct-09	40	6.7	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8081A **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: GCGT_57G **Calibration ID:** 1651

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
PIBLK	PIBLK	15-Oct-09	15:49	15-Oct-09	16:13
PEM	PEM	15-Oct-09	16:13	15-Oct-09	16:37
RESC	RESC	15-Oct-09	16:37	15-Oct-09	17:01
INDAB-1	INDAB-1	15-Oct-09	17:01	15-Oct-09	17:25
INDAB-2	INDAB-2	15-Oct-09	17:25	15-Oct-09	17:49
INDAB-3	INDAB-3	15-Oct-09	17:49	15-Oct-09	18:13
INDAB-4	INDAB-4	15-Oct-09	18:13	15-Oct-09	18:37
INDAB-5	INDAB-5	15-Oct-09	18:37	15-Oct-09	19:01
INDAB-6	INDAB-6	15-Oct-09	19:01	15-Oct-09	19:25
TOX-1	TOX-1	15-Oct-09	19:25	15-Oct-09	19:49
TOX-2	TOX-2	15-Oct-09	19:49	15-Oct-09	20:13
TOX-3	TOX-3	15-Oct-09	20:13	15-Oct-09	20:37
TOX-4	TOX-4	15-Oct-09	20:37	15-Oct-09	21:01
TOX-5	TOX-5	15-Oct-09	21:01	15-Oct-09	21:25
CHLOR-1	CHLOR-1	15-Oct-09	21:25	15-Oct-09	21:49
CHLOR-2	CHLOR-2	15-Oct-09	21:49	15-Oct-09	22:13
CHLOR-3	CHLOR-3	15-Oct-09	22:13	15-Oct-09	22:37
PEST S.S.	PEST S.S.	15-Oct-09	22:37	15-Oct-09	23:01
TOX S.S.	TOX S.S.	15-Oct-09	23:01	16-Oct-09	0:13
PIBLK	PIBLK	16-Oct-09	0:13	16-Oct-09	0:37
PEM	PEM	16-Oct-09	0:37	16-Oct-09	1:01
INDAB-3	INDAB-3	16-Oct-09	1:01	16-Oct-09	1:25
MB-10117	MB-10117	16-Oct-09	3:25	16-Oct-09	3:49
LCS-10117	LCS-10117	16-Oct-09	3:49	16-Oct-09	4:13
LCSD-10117	LCSD-10117	16-Oct-09	4:13	16-Oct-09	4:37
TLCS-10117	TLCS-10117	16-Oct-09	4:37	16-Oct-09	5:01
TLCSD-10117	TLCSD-10117	16-Oct-09	5:01	16-Oct-09	9:25
PIBLK	PIBLK	16-Oct-09	9:25	16-Oct-09	10:33
INDAB-3	INDAB-3	16-Oct-09	10:33	16-Oct-09	10:57
SMCSD0101FA	0910009-001A	16-Oct-09	10:57	16-Oct-09	11:21
SMCSD0401FA	0910009-002A	16-Oct-09	11:21	16-Oct-09	11:45
SMCSD0401FC	0910009-003A	16-Oct-09	11:45	16-Oct-09	12:09
SMCSD0501FA	0910009-004A	16-Oct-09	12:09	16-Oct-09	16:55
PIBLK	PIBLK	16-Oct-09	16:55	16-Oct-09	17:19
INDAB-3	INDAB-3	16-Oct-09	17:19	16-Oct-09	17:43

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8081A **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: GCGT_57G **Calibration ID:** 1651

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TOX-3	TOX-3	16-Oct-09	17:43	16-Oct-09	18:31

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8081A **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: GCGT_57H **Calibration ID:** 1652

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
PIBLK	PIBLK	15-Oct-09	15:49	15-Oct-09	16:13
PEM	PEM	15-Oct-09	16:13	15-Oct-09	16:37
RESC	RESC	15-Oct-09	16:37	15-Oct-09	17:01
INDAB-1	INDAB-1	15-Oct-09	17:01	15-Oct-09	17:25
INDAB-2	INDAB-2	15-Oct-09	17:25	15-Oct-09	17:49
INDAB-3	INDAB-3	15-Oct-09	17:49	15-Oct-09	18:13
INDAB-4	INDAB-4	15-Oct-09	18:13	15-Oct-09	18:37
INDAB-5	INDAB-5	15-Oct-09	18:37	15-Oct-09	19:01
INDAB-6	INDAB-6	15-Oct-09	19:01	15-Oct-09	19:25
TOX-1	TOX-1	15-Oct-09	19:25	15-Oct-09	19:49
TOX-2	TOX-2	15-Oct-09	19:49	15-Oct-09	20:13
TOX-3	TOX-3	15-Oct-09	20:13	15-Oct-09	20:37
TOX-4	TOX-4	15-Oct-09	20:37	15-Oct-09	21:01
TOX-5	TOX-5	15-Oct-09	21:01	15-Oct-09	21:25
CHLOR-1	CHLOR-1	15-Oct-09	21:25	15-Oct-09	21:49
CHLOR-2	CHLOR-2	15-Oct-09	21:49	15-Oct-09	22:13
CHLOR-3	CHLOR-3	15-Oct-09	22:13	15-Oct-09	22:37
PEST S.S.	PEST S.S.	15-Oct-09	22:37	15-Oct-09	23:01
TOX S.S.	TOX S.S.	15-Oct-09	23:01	16-Oct-09	0:13
PIBLK	PIBLK	16-Oct-09	0:13	16-Oct-09	0:37
PEM	PEM	16-Oct-09	0:37	16-Oct-09	1:01
INDAB-3	INDAB-3	16-Oct-09	1:01	16-Oct-09	1:25
MB-10117	MB-10117	16-Oct-09	3:25	16-Oct-09	3:49
LCS-10117	LCS-10117	16-Oct-09	3:49	16-Oct-09	4:13
LCSD-10117	LCSD-10117	16-Oct-09	4:13	16-Oct-09	4:37
TLCS-10117	TLCS-10117	16-Oct-09	4:37	16-Oct-09	5:01
TLCSD-10117	TLCSD-10117	16-Oct-09	5:01	16-Oct-09	9:25
PIBLK	PIBLK	16-Oct-09	9:25	16-Oct-09	10:33
INDAB-3	INDAB-3	16-Oct-09	10:33	16-Oct-09	10:57
SMCSD0101FA	0910009-001A	16-Oct-09	10:57	16-Oct-09	11:21
SMCSD0401FA	0910009-002A	16-Oct-09	11:21	16-Oct-09	11:45
SMCSD0401FC	0910009-003A	16-Oct-09	11:45	16-Oct-09	12:09
SMCSD0501FA	0910009-004A	16-Oct-09	12:09	16-Oct-09	16:55
PIBLK	PIBLK	16-Oct-09	16:55	16-Oct-09	17:19
INDAB-3	INDAB-3	16-Oct-09	17:19	16-Oct-09	17:43

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8081A **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: GCGT_57H **Calibration ID:** 1652

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
TOX-3	TOX-3	16-Oct-09	17:43	16-Oct-09	18:31

Comments:

PCB Data

AFCEE
ORGANIC ANALYSES DATA SHEET 3
INITIAL MULTIPOINT CALIBRATION

Analytical Method:	SW8082	**AAB #:**	18534
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GC90_20C	**Date of Initial Calibration:**	22-Sep-09
Initial Calibration ID:	1650	**Concentration Units:**	ug/mL

SEE ATTACHED INITIAL CALIBRATION

Comments:

AFCEE FORM O-3

INITIAL CALIBRATION

INSTRUMENT: HP5890-90 (GC90-20C)

COLUMN: DB-608

SEQUENCE: 90092209

PCBs

ICAL 1650

Turbochrom Method File E:\Methods\cSURR092209.mth
Printed by : manager on: 09/24/09 11:45:39
Created by : manager on: 09/24/09 11:45:28
Edited by : manager on: 09/24/09 11:45:37
Number of Times Edited : 1
Number of Times Calibrated : 60
Description: AR1016/AR1260 - CHANNEL C

ICAL 1650

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

2,4,5,6-TCMX
Component Type : Single Peak Component
Retention Time : 4.941 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.0800	677809.25	161575.09	----------	----------	1
2	0.0400	337578.70	82008.07	----------	----------	1
3	0.0200	159706.07	38466.81	----------	----------	1
4	0.0100	75457.40	17994.33	----------	----------	1
5	0.0050	34504.33	8093.13	----------	----------	1

Average Calibration Factor = 7.868798e+06 (%RSD = 8.39)

DECACHLOROBIPHENYL
Component Type : Single Peak Component
Retention Time : 23.030 min
Search Window : 1.08 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 1.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.0800	844212.68	95480.73	----------	----------	1
2	0.0400	455247.10	51661.88	----------	----------	1
3	0.0200	225282.56	25985.65	----------	----------	1
4	0.0100	113149.44	13103.57	----------	----------	1
5	0.0050	53589.90	6231.07	----------	----------	1

Average Calibration Factor = 1.104618e+07 (%RSD = 3.46)

Calibration Replicate Lists
Component : 2,4,5,6-TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
677809.25	161575.09	0.0800	---------	---------	09/24/09	11:45:11	E:\90sep09\C092203.rst

Level : 2

09/24/09 11:45:39 Method: E:\Methods\cSURR092209.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
337578.70	82008.07	0.0400	----------	----------	09/24/09	11:45:11	E:\90sep09\C092204.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159706.07	38466.81	0.0200	----------	----------	09/24/09	11:45:12	E:\90sep09\C092205.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75457.40	17994.33	0.0100	----------	----------	09/24/09	11:45:12	E:\90sep09\C092206.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34504.33	8093.13	0.0050	----------	----------	09/24/09	11:45:12	E:\90sep09\C092207.rst

Component : DECACHLOROBIPHENYL

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
844212.68	95480.73	0.0800	----------	----------	09/24/09	11:45:11	E:\90sep09\C092203.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
455247.10	51661.88	0.0400	----------	----------	09/24/09	11:45:11	E:\90sep09\C092204.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
225282.56	25985.65	0.0200	----------	----------	09/24/09	11:45:12	E:\90sep09\C092205.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113149.44	13103.57	0.0100	----------	----------	09/24/09	11:45:12	E:\90sep09\C092206.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53589.90	6231.07	0.0050	----------	----------	09/24/09	11:45:12	E:\90sep09\C092207.rst

Turbochrom Method File E:\Methods\c60092209.mth
Printed by : manager on: 09/24/09 11:43:13
Created by : manager on: 09/24/09 10:02:20
Edited by : manager on: 09/24/09 11:43:11
Number of Times Edited : 2
Number of Times Calibrated : 59
Description: AR1016/AR1260 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1016-1
Component Type : Single Peak Component
Retention Time : 6.763 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	11567.17	2398.56	----------	----------	1
4	0.1000	22487.51	4693.72	----------	----------	1
3	0.2000	43892.50	9001.04	----------	----------	1
2	0.3000	60255.34	12461.89	----------	----------	1
1	0.5000	100532.70	20644.14	----------	----------	1

Average Calibration Factor = 215519.508212 (%RSD = 6.47)

AR1016-2
Component Type : Single Peak Component
Retention Time : 7.980 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	27911.21	5462.41	----------	----------	1
4	0.1000	54688.38	10410.53	----------	----------	1
3	0.2000	103808.46	19590.75	----------	----------	1
2	0.3000	144027.44	27028.16	----------	----------	1
1	0.5000	233839.65	43543.85	----------	----------	1

Average Calibration Factor = 514384.202856 (%RSD = 7.75)

AR1016-3
Component Type : Single Peak Component
Retention Time : 9.055 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 11:43:13 Method: E:\Methods\c60092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	38797.97	6154.05	----------	----------	1
4	0.1000	78522.40	12328.36	----------	----------	1
3	0.2000	160335.00	24385.60	----------	----------	1
2	0.3000	226676.14	35148.54	----------	----------	1
1	0.5000	385330.93	59616.63	----------	----------	1

Average Calibration Factor = 777821.494682 (%RSD = 2.20)

AR1016-4
Component Type : Single Peak Component
Retention Time : 9.544 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	15816.31	2861.93	----------	----------	1
4	0.1000	30702.55	5608.89	----------	----------	1
3	0.2000	66618.08	11328.31	----------	----------	1
2	0.3000	89382.28	15794.69	----------	----------	1
1	0.5000	151979.95	26468.59	----------	----------	1

Average Calibration Factor = 311668.558020 (%RSD = 4.39)

AR1016-5
Component Type : Single Peak Component
Retention Time : 10.985 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	16381.35	2814.51	----------	----------	1
4	0.1000	33447.63	5561.05	----------	----------	1
3	0.2000	68715.72	11152.65	----------	----------	1
2	0.3000	90238.23	15237.36	----------	----------	1
1	0.5000	152270.47	25385.20	----------	----------	1

Average Calibration Factor = 322203.388477 (%RSD = 5.82)

AR1260-1
Component Type : Single Peak Component
Retention Time : 13.923 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	16056.94	3095.91	----------	----------	1
4	0.1000	34521.00	6495.07	----------	----------	1
3	0.2000	66320.05	12789.95	----------	----------	1
2	0.3000	99733.94	18573.80	----------	----------	1
1	0.5000	155241.08	29249.57	----------	----------	1

Average Calibration Factor = 328175.536682 (%RSD = 3.98)

AR1260-2
Component Type : Single Peak Component
Retention Time : 14.465 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	33614.12	5982.72	----------	----------	1
4	0.1000	71579.97	12600.47	----------	----------	1
3	0.2000	136004.61	23679.42	----------	----------	1
2	0.3000	200797.93	34460.08	----------	----------	1
1	0.5000	307195.08	51907.07	----------	----------	1

Average Calibration Factor = 670364.362112 (%RSD = 5.43)

AR1260-3
Component Type : Single Peak Component
Retention Time : 14.727 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	34660.21	6733.28	----------	----------	1
4	0.1000	73873.84	14332.97	----------	----------	1
3	0.2000	141112.07	27156.73	----------	----------	1
2	0.3000	208002.69	39779.00	----------	----------	1
1	0.5000	319774.31	60230.45	----------	----------	1

Average Calibration Factor = 694078.754146 (%RSD = 5.15)

AR1260-4
Component Type : Single Peak Component
Retention Time : 17.588 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 11:43:13 Method: E:\Methods\c60092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	55052.95	10254.82	----------	----------	1
4	0.1000	119578.80	22469.65	----------	----------	1
3	0.2000	235581.98	43797.70	----------	----------	1
2	0.3000	354550.96	65562.12	----------	----------	1
1	0.5000	559127.01	102955.79	----------	----------	1

Average Calibration Factor = 1.154969e+06 (%RSD = 3.67)

AR1260-5
Component Type : Single Peak Component
Retention Time : 18.935 min
Search Window : 1.35 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	24711.17	4591.77	----------	----------	1
4	0.1000	57520.23	10232.61	----------	----------	1
3	0.2000	109098.00	19705.81	----------	----------	1
2	0.3000	167385.14	29922.65	----------	----------	1
1	0.5000	268397.30	48077.59	----------	----------	1

Average Calibration Factor = 541932.163260 (%RSD = 5.60)

Calibration Replicate Lists
Component : AR1016-1
Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11567.17	2398.56	0.0500	----------	----------	09/24/09	11:43:05	E:\90sep09\C092207.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22487.51	4693.72	0.1000	----------	----------	09/24/09	11:43:05	E:\90sep09\C092206.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43892.50	9001.04	0.2000	----------	----------	09/24/09	11:43:04	E:\90sep09\C092205.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60255.34	12461.89	0.3000	----------	----------	09/24/09	11:43:04	E:\90sep09\C092204.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100532.70	20644.14	0.5000	----------	----------	09/24/09	11:43:04	E:\90sep09\C092203.rst

Component : AR1016-2
Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27911.21	5462.41	0.0500	----------	----------	09/24/09	11:43:05	E:\90sep09\C092207.rst

Level : 4

Turbochrom Method File E:\Methods\c21092209.mth
Printed by : manager on: 09/24/09 12:12:11
Created by : manager on: 09/24/09 10:01:18
Edited by : manager on: 09/24/09 12:12:09
Number of Times Edited : 2
Number of Times Calibrated : 48
Description: AR1221 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1221-1
Component Type : Single Peak Component
Retention Time : 4.273 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	52318.49	10863.35	----------	----------	1
2	0.3000	32660.11	6759.58	----------	----------	1
3	0.2000	21847.23	4707.37	----------	----------	1
4	0.1000	11500.25	2550.28	----------	----------	1
5	0.0500	5844.44	1324.26	----------	----------	1

Average Calibration Factor = 110926.276530 (%RSD = 4.48)

AR1221-2
Component Type : Single Peak Component
Retention Time : 6.148 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	53382.94	10793.18	----------	----------	1
2	0.3000	30911.79	6299.63	----------	----------	1
3	0.2000	20731.47	4218.88	----------	----------	1
4	0.1000	11032.62	2238.29	----------	----------	1
5	0.0500	5619.02	1128.92	----------	----------	1

Average Calibration Factor = 107233.834587 (%RSD = 3.81)

AR1221-3
Component Type : Single Peak Component
Retention Time : 6.578 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:12:11 Method: E:\Methods\c21092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	39965.17	8541.09	----------	----------	1
2	0.3000	23590.15	5018.28	----------	----------	1
3	0.2000	15859.52	3385.24	----------	----------	1
4	0.1000	8630.57	1818.89	----------	----------	1
5	0.0500	4546.62	940.11	----------	----------	1

Average Calibration Factor = 83019.981011 (%RSD = 6.49)

AR1221-4
Component Type : Single Peak Component
Retention Time : 6.763 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	128925.99	26422.27	----------	----------	1
2	0.3000	77533.92	15877.59	----------	----------	1
3	0.2000	52405.26	10806.34	----------	----------	1
4	0.1000	28415.86	5819.60	----------	----------	1
5	0.0500	14077.96	2973.62	----------	----------	1

Average Calibration Factor = 268808.494672 (%RSD = 4.82)

Calibration Replicate Lists
Component : AR1221-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52318.49	10863.35	0.5000	----------	----------	09/24/09	12:12:04	E:\90sep09\C092208.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32660.11	6759.58	0.3000	----------	----------	09/24/09	12:12:05	E:\90sep09\C092209.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21847.23	4707.37	0.2000	----------	----------	09/24/09	12:12:05	E:\90sep09\C092210.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11500.25	2550.28	0.1000	----------	----------	09/24/09	12:12:05	E:\90sep09\C092211.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5844.44	1324.26	0.0500	----------	----------	09/24/09	12:12:05	E:\90sep09\C092212.rst

Component : AR1221-2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53382.94	10793.18	0.5000	----------	----------	09/24/09	12:12:04	E:\90sep09\C092208.rst

Level : 2

Turbochrom Method File E:\Methods\c32092209.mth
Printed by : manager on: 09/24/09 12:44:29
Created by : manager on: 09/24/09 10:01:30
Edited by : manager on: 09/24/09 12:44:26
Number of Times Edited : 3
Number of Times Calibrated : 55
Description: AR1232 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1232-1
Component Type : Single Peak Component
Retention Time : 6.763 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	104518.33	21447.96	----------	----------	1
2	0.3000	64822.19	13327.02	----------	----------	1
3	0.2000	45452.92	9323.08	----------	----------	1
4	0.1000	23409.53	4824.27	----------	----------	1
5	0.0500	11938.54	2469.70	----------	----------	1

Average Calibration Factor = 225048.232443 (%RSD = 5.50)

AR1232-2
Component Type : Single Peak Component
Retention Time : 7.979 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	118372.50	21371.53	----------	----------	1
2	0.3000	74200.30	13456.40	----------	----------	1
3	0.2000	52151.49	9485.50	----------	----------	1
4	0.1000	26777.10	4938.40	----------	----------	1
5	0.0500	13261.16	2561.76	----------	----------	1

Average Calibration Factor = 255566.184658 (%RSD = 5.14)

AR1232-3
Component Type : Single Peak Component
Retention Time : 9.056 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	164999.62	25959.36	----------	----------	1
2	0.3000	101826.76	15542.03	----------	----------	1
3	0.2000	70826.48	10714.82	----------	----------	1
4	0.1000	33762.78	5334.35	----------	----------	1
5	0.0500	17121.17	2708.41	----------	----------	1

Average Calibration Factor = 340721.064135 (%RSD = 2.58)

AR1232-4
Component Type : Single Peak Component
Retention Time : 10.985 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	70790.06	11424.75	----------	----------	1
2	0.3000	43011.40	6957.95	----------	----------	1
3	0.2000	29849.00	4845.93	----------	----------	1
4	0.1000	15405.15	2483.10	----------	----------	1
5	0.0500	7851.09	1266.15	----------	----------	1

Average Calibration Factor = 149053.953449 (%RSD = 4.46)

AR1232-5
Component Type : Single Peak Component
Retention Time : 11.948 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	63516.66	11882.37	----------	----------	1
2	0.3000	38622.46	7118.94	----------	----------	1
3	0.2000	27193.83	4965.25	----------	----------	1
4	0.1000	13003.68	2452.64	----------	----------	1
5	0.0500	6603.56	1235.69	----------	----------	1

Average Calibration Factor = 130770.389458 (%RSD = 2.63)

Calibration Replicate Lists
Component : AR1232-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
104518.33	21447.96	0.5000	----------	----------	09/24/09	12:44:22	E:\90sep09\C092213.rst

Level : 2

Turbochrom Method File E:\Methods\c42092209.mth
Printed by : manager on: 09/24/09 12:45:42
Created by : manager on: 09/24/09 10:01:45
Edited by : manager on: 09/24/09 12:45:39
Number of Times Edited : 2
Number of Times Calibrated : 62
Description: AR1242 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1242-1
Component Type : Single Peak Component
Retention Time : 6.763 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	78925.84	16197.88	----------	----------	1
2	0.3000	47721.06	9839.55	----------	----------	1
3	0.2000	31871.98	6592.34	----------	----------	1
4	0.1000	17229.29	3610.28	----------	----------	1
5	0.0500	8106.21	1717.01	----------	----------	1

Average Calibration Factor = 162139.755100 (%RSD = 3.63)

AR1242-2
Component Type : Single Peak Component
Retention Time : 7.980 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	186847.59	35077.15	----------	----------	1
2	0.3000	115117.86	21850.42	----------	----------	1
3	0.2000	78250.13	14835.15	----------	----------	1
4	0.1000	43508.24	8305.51	----------	----------	1
5	0.0500	21069.02	4106.76	----------	----------	1

Average Calibration Factor = 401026.978259 (%RSD = 6.50)

AR1242-3
Component Type : Single Peak Component
Retention Time : 9.055 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:45:42 Method: E:\Methods\c42092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	298055.12	46345.33	----------	----------	1
2	0.3000	174395.91	27215.99	----------	----------	1
3	0.2000	117928.23	17821.45	----------	----------	1
4	0.1000	63952.26	9495.84	----------	----------	1
5	0.0500	28798.71	4472.21	----------	----------	1

Average Calibration Factor = 596513.573752 (%RSD = 4.23)

AR1242-4
Component Type : Single Peak Component
Retention Time : 11.766 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	99774.62	19298.84	----------	----------	1
2	0.3000	59816.75	11603.55	----------	----------	1
3	0.2000	39605.60	7701.95	----------	----------	1
4	0.1000	21853.28	4161.06	----------	----------	1
5	0.0500	10534.32	2013.09	----------	----------	1

Average Calibration Factor = 205237.149317 (%RSD = 4.39)

AR1242-5
Component Type : Single Peak Component
Retention Time : 12.785 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	85999.58	16693.36	----------	----------	1
2	0.3000	51043.38	9906.16	----------	----------	1
3	0.2000	33468.59	6478.49	----------	----------	1
4	0.1000	18399.61	3490.65	----------	----------	1
5	0.0500	8856.05	1682.70	----------	----------	1

Average Calibration Factor = 174120.764979 (%RSD = 3.77)

Calibration Replicate Lists
Component : AR1242-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78925.84	16197.88	0.5000	----------	----------	09/24/09	12:45:35	E:\90sep09\C092218.rst

Level : 2

Turbochrom Method File E:\Methods\c48092209.mth
Printed by : manager on: 09/24/09 12:46:48
Created by : manager on: 09/24/09 10:01:56
Edited by : manager on: 09/24/09 12:46:47
Number of Times Edited : 2
Number of Times Calibrated : 64
Description: AR1248 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1248-1
Component Type : Single Peak Component
Retention Time : 7.979 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	99854.75	19193.72	----------	----------	1
2	0.3000	60466.13	11751.69	----------	----------	1
3	0.2000	41020.99	7981.16	----------	----------	1
4	0.1000	22076.69	4393.98	----------	----------	1
5	0.0500	11416.85	2281.24	----------	----------	1

Average Calibration Factor = 211094.411690 (%RSD = 6.03)

AR1248-2
Component Type : Single Peak Component
Retention Time : 9.050 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	196414.08	30030.59	----------	----------	1
2	0.3000	116121.19	17461.61	----------	----------	1
3	0.2000	78293.16	11687.74	----------	----------	1
4	0.1000	39771.69	6178.03	----------	----------	1
5	0.0500	20153.72	3111.96	----------	----------	1

Average Calibration Factor = 394431.179623 (%RSD = 1.56)

AR1248-3
Component Type : Single Peak Component
Retention Time : 10.020 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:46:48 Method: E:\Methods\c48092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	191228.89	30334.44	----------	----------	1
2	0.3000	115859.39	18526.24	----------	----------	1
3	0.2000	80125.10	12732.10	----------	----------	1
4	0.1000	42361.08	6977.52	----------	----------	1
5	0.0500	21556.04	3602.00	----------	----------	1

Average Calibration Factor = 404802.570428 (%RSD = 5.40)

AR1248-4
Component Type : Single Peak Component
Retention Time : 11.947 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	198752.38	36428.45	----------	----------	1
2	0.3000	116977.18	21484.33	----------	----------	1
3	0.2000	78650.38	14350.51	----------	----------	1
4	0.1000	42044.45	7634.45	----------	----------	1
5	0.0500	20966.23	3828.72	----------	----------	1

Average Calibration Factor = 404089.932029 (%RSD = 3.63)

AR1248-5
Component Type : Single Peak Component
Retention Time : 13.937 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	106908.34	20605.16	----------	----------	1
2	0.3000	62741.85	11934.33	----------	----------	1
3	0.2000	40936.15	8011.44	----------	----------	1
4	0.1000	21923.51	4304.32	----------	----------	1
5	0.0500	11013.84	2156.37	----------	----------	1

Average Calibration Factor = 213429.757883 (%RSD = 3.11)

Calibration Replicate Lists
Component : AR1248-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99854.75	19193.72	0.5000	----------	----------	09/24/09	12:46:43	E:\90sep09\C092223.rst

Level : 2

Turbochrom Method File E:\Methods\c54092209.mth
Printed by : manager on: 09/24/09 12:48:01
Created by : manager on: 09/24/09 10:02:08
Edited by : manager on: 09/24/09 12:48:00
Number of Times Edited : 2
Number of Times Calibrated : 50
Description: AR1254/60 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1254-1
Component Type : Single Peak Component
Retention Time : 10.021 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	114394.44	22429.31	----------	----------	1
2	0.3000	70374.93	13808.49	----------	----------	1
3	0.2000	48605.99	9379.45	----------	----------	1
4	0.1000	25888.12	5075.58	----------	----------	1
5	0.0500	11788.92	2496.36	----------	----------	1

Average Calibration Factor = 240212.307495 (%RSD = 4.83)

AR1254-2
Component Type : Single Peak Component
Retention Time : 12.192 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	230066.52	42687.80	----------	----------	1
2	0.3000	139994.48	26380.42	----------	----------	1
3	0.2000	95201.90	17962.50	----------	----------	1
4	0.1000	51430.99	9787.75	----------	----------	1
5	0.0500	25891.50	5001.33	----------	----------	1

Average Calibration Factor = 486986.137167 (%RSD = 5.58)

AR1254-3
Component Type : Single Peak Component
Retention Time : 12.388 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:48:01 Method: E:\Methods\c54092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	277955.68	48024.69	----------	----------	1
2	0.3000	169572.15	29463.27	----------	----------	1
3	0.2000	115602.02	20168.99	----------	----------	1
4	0.1000	62709.40	11020.67	----------	----------	1
5	0.0500	32150.07	5688.09	----------	----------	1

Average Calibration Factor = 593851.465389 (%RSD = 6.54)

AR1254-4
Component Type : Single Peak Component
Retention Time : 13.936 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	354028.66	66553.70	----------	----------	1
2	0.3000	210136.15	40010.28	----------	----------	1
3	0.2000	140486.40	26946.90	----------	----------	1
4	0.1000	74804.17	14166.08	----------	----------	1
5	0.0500	37292.51	7165.48	----------	----------	1

Average Calibration Factor = 720967.009532 (%RSD = 3.31)

AR1254-5
Component Type : Single Peak Component
Retention Time : 16.011 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	0.5000	303219.41	50458.26	----------	----------	1
2	0.3000	179075.41	29824.75	----------	----------	1
3	0.2000	120496.23	20081.44	----------	----------	1
4	0.1000	64043.43	10600.66	----------	----------	1
5	0.0500	32438.37	5333.53	----------	----------	1

Average Calibration Factor = 619007.950148 (%RSD = 3.84)

Calibration Replicate Lists
Component : AR1254-1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114394.44	22429.31	0.5000	----------	----------	09/24/09	12:47:56	E:\90sep09\C092228.rst

Level : 2

Turbochrom Method File E:\Methods\c62092209.mth
Printed by : manager on: 09/24/09 12:49:09
Created by : manager on: 09/24/09 10:02:46
Edited by : manager on: 09/24/09 12:49:08
Number of Times Edited : 2
Number of Times Calibrated : 53
Description: AR1262 - CHANNEL C

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : No
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1262-1
Component Type : Single Peak Component
Retention Time : 13.920 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	16226.41	3105.40	----------	----------	1
4	0.1000	30241.13	5894.77	----------	----------	1
3	0.2000	59377.40	11183.58	----------	----------	1
2	0.3000	87293.90	16371.68	----------	----------	1
1	0.5000	144060.85	26970.88	----------	----------	1

Average Calibration Factor = 300585.592895 (%RSD = 4.81)

AR1262-2
Component Type : Single Peak Component
Retention Time : 14.726 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	29865.97	5793.30	----------	----------	1
4	0.1000	57377.67	11130.28	----------	----------	1
3	0.2000	108508.26	21007.88	----------	----------	1
2	0.3000	159271.99	30061.83	----------	----------	1
1	0.5000	259171.22	48585.16	----------	----------	1

Average Calibration Factor = 552577.275823 (%RSD = 5.86)

AR1262-3
Component Type : Single Peak Component
Retention Time : 16.117 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:49:09 Method: E:\Methods\c62092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	42058.26	7672.22	----------	----------	1
4	0.1000	83045.87	15122.66	----------	----------	1
3	0.2000	154169.31	27788.25	----------	----------	1
2	0.3000	224282.79	39922.18	----------	----------	1
1	0.5000	364049.16	65120.84	----------	----------	1

Average Calibration Factor = 783635.593540 (%RSD = 6.40)

AR1262-4
Component Type : Single Peak Component
Retention Time : 17.586 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	66625.49	12277.93	----------	----------	1
4	0.1000	133576.87	24096.85	----------	----------	1
3	0.2000	255594.59	46653.12	----------	----------	1
2	0.3000	378949.99	68495.45	----------	----------	1
1	0.5000	633036.34	114747.67	----------	----------	1

Average Calibration Factor = 1.295098e+06 (%RSD = 2.79)

AR1262-5
Component Type : Single Peak Component
Retention Time : 18.695 min
Search Window : 1.35 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
5	0.0500	29809.77	5302.83	----------	----------	1
4	0.1000	59098.31	10428.41	----------	----------	1
3	0.2000	112233.06	19660.98	----------	----------	1
2	0.3000	165757.16	28949.18	----------	----------	1
1	0.5000	275762.51	47750.65	----------	----------	1

Average Calibration Factor = 570478.555914 (%RSD = 3.77)

Calibration Replicate Lists
Component : AR1262-1
Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16226.41	3105.40	0.0500	----------	----------	09/24/09	12:49:05	E:\90sep09\C092237.rst

Level : 4

Turbochrom Method File E:\Methods\c68092209.mth
Printed by : manager on: 09/24/09 12:50:11
Created by : manager on: 09/24/09 10:03:01
Edited by : manager on: 09/24/09 12:50:10
Number of Times Edited : 2
Number of Times Calibrated : 66
Description: AR1268 CALIBRATION

Global Sample Information

Default Sample Volume : 1.000 uL
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : Yes
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest component
First peak will be relative retention reference

Component Information

AR1268-1
Component Type : Single Peak Component
Retention Time : 16.118 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	0.2000	75581.20	14044.16	----------	----------	1
1	0.5000	184133.13	33918.32	----------	----------	1
2	0.3000	108329.63	20072.03	----------	----------	1
4	0.1000	39275.42	7405.45	----------	----------	1
5	0.0500	19288.41	3632.75	----------	----------	1

Average Calibration Factor = 377158.692879 (%RSD = 3.39)

AR1268-2
Component Type : Single Peak Component
Retention Time : 17.097 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	0.2000	92768.52	15988.91	----------	----------	1
1	0.5000	222316.51	37231.28	----------	----------	1
2	0.3000	132762.47	22480.42	----------	----------	1
4	0.1000	48674.65	8464.97	----------	----------	1
5	0.0500	23879.25	4222.89	----------	----------	1

Average Calibration Factor = 463069.748965 (%RSD = 4.23)

AR1268-3
Component Type : Single Peak Component
Retention Time : 18.692 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

09/24/09 12:50:11 Method: E:\Methods\c68092209.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	0.2000	293252.22	54438.12	----------	----------	1
1	0.5000	714598.64	132679.40	----------	----------	1
2	0.3000	422135.35	78803.66	----------	----------	1
4	0.1000	152367.04	28708.65	----------	----------	1
5	0.0500	75175.39	14093.80	----------	----------	1

Average Calibration Factor = 1.465951e+06 (%RSD = 3.33)

AR1268-4
Component Type : Single Peak Component
Retention Time : 19.693 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	0.2000	216970.72	35437.26	----------	----------	1
1	0.5000	512844.62	87325.33	----------	----------	1
2	0.3000	301300.09	50830.05	----------	----------	1
4	0.1000	120932.85	18701.53	----------	----------	1
5	0.0500	57033.82	9347.37	----------	----------	1

Average Calibration Factor = 1.092976e+06 (%RSD = 7.69)

AR1268-5
Component Type : Single Peak Component
Retention Time : 21.669 min
Search Window : 1.04 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	0.2000	644659.95	87456.04	----------	----------	1
1	0.5000	1596474.84	212236.66	----------	----------	1
2	0.3000	933848.38	125266.16	----------	----------	1
4	0.1000	328036.31	44785.72	----------	----------	1
5	0.0500	156795.59	21248.64	----------	----------	1

Average Calibration Factor = 3.189070e+06 (%RSD = 2.11)

Calibration Replicate Lists
Component : AR1268-1
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75581.20	14044.16	0.2000	----------	----------	09/24/09	12:50:06	E:\90sep09\C092240.rst

Level : 1

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1221S.S.	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
Aroclor 1221	200	183	-8.6	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1232 S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Aroclor 1232	200	186	-7.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1242 S.S.	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
Aroclor 1242	200	192	-3.9	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1248 S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Aroclor 1248	200	200	-0.2	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1254 S.S.	**Concentration Units (mg/L or mg/kg):**	ug/L

Analyte	Expected	Found	%D	Q
Aroclor 1254	200	166	-16.9	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 4
SECOND SOURCE CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	R18534
Lab Name:	Life Science Laboratories, Inc	**Contract Number:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650
Second Source ID:	AR1660 S.S.	**Concentration Units (mg/L or mg/kg):**	µg/L

Analyte	Expected	Found	%D	Q
Aroclor 1016	200	176	-11.9	
Aroclor 1260	200	188	-6.0	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 5
CALIBRATION VERIFICATION

Analytical Method:	SW8082	**AAB #:**	18533
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**	
Instrument ID:	GC90_20C	**Initial Calibration ID:**	1650

SEE ATTACHED CALIBRATION VERIFICATION

Comments:

AFCEE FORM O-5

PCB
CONTINUING CALIBRATION SUMMARY

INSTRUMENT: HP5890-90 SEQUENCE: 90101409.SEQ COLUMN: DB-608

		Name: AR1660-3		Name: AR1660-3		Name: AR1660-3		Name: AR1254-3	
		File: C101403		File: C101425		File: C101439		File: C101442	
		Date: 10/14/09		Date: 10/15/09		Date: 10/15/09		Date: 10/15/09	
		Time 13:52		Time 01:43		Time 09:15		Time 10:52	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
AR1016	0.20	0.189	6	0.187	6	0.183	9		
AR1221	0.20								
AR1232	0.20								
AR1242	0.20								
AR1248	0.20								
AR1254	0.20							0.187	7
AR1260	0.20	0.197	2	0.196	2	0.195	2		
AR1262	0.20								
AR1268	0.20								

		Name:		Name:		Name:		Name:	
		File:		File:		File:		File:	
		Date:		Date:		Date:		Date:	
		Time		Time		Time		Time	
Parameter	Nominal Amount(ng)	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D	Calculated Amount(ng)	%D
AR1016	0.20								
AR1221	0.20								
AR1232	0.20								
AR1242	0.20								
AR1248	0.20								
AR1254	0.20								
AR1260	0.20								
AR1262	0.20								
AR1268	0.20								

AFCEE
ORGANIC ANALYSES DATA SHEET 7
BLANKS

Analytical Method:	SW8082	**AAB #:**	10119
Lab Name:	Life Science Laboratories, Inc.	**Contract Number:**	
Units:	mg/Kg	**Method Blank ID:**	MB-10119
Initial Calibration ID:	1650	**File ID:**	E:\90oct09\C101407.rst

Analyte	Method Blank	RL	Q
Aroclor 1016	0.00219	0.0170	U
Aroclor 1221	0.00222	0.0170	U
Aroclor 1232	0.00135	0.0170	U
Aroclor 1242	0.00183	0.0170	U
Aroclor 1248	0.00357	0.0170	U
Aroclor 1254	0.00474	0.0170	U
Aroclor 1260	0.00200	0.0170	U

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	100	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCS-10119 **Initial Calibration ID:** 1650

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\90oct09\C101408.rst

Analyte	Expected	Found	%R	Control Limits	Q
Aroclor 1016	0.2	0.191	95	40 - 130	
Aroclor 1260	0.2	0.206	103	40 - 130	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	106	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 8
LABORATORY CONTROL SAMPLE

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract #:**

LCS ID: LCSD-10119 **Initial Calibration ID:** 1650

Concentration Units (mg/L or mg/kg): mg/Kg **File ID:** E:\90oct09\C101409.rst

Analyte	Expected	Found	%R	Control Limits	Q
Aroclor 1016	0.2	0.203	102	40 - 130	
Aroclor 1260	0.2	0.222	111	40 - 130	

Surrogate	Recovery	Control Limits	Qualifier
Decachlorobiphenyl	106	58 - 125	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 9
MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Concentration Units (mg/L or mg/kg): mg/Kg **% Solids:** 0

Parent Field Sample ID: LCSD-10119 **MS ID:** LCS-10119 **MSD ID:** LCSD-10119

Calibration ID: 1650

Analyte	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Duplicate Spiked Sample Result	%R	%RPD	Control Limits %R	Control Limits %RPD	Q
Aroclor 1016		0.200	0.191	95	0.203	102	6	40 - 130	50	
Aroclor 1260		0.200	0.206	103	0.222	111	7	40 - 130	50	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 10
HOLDING TIMES

Analytical Method: SW8082 **AAB #:** 10119

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Field Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Max. Holding Time E	Time Held Ext.	Date Analyzed	Max. Holding Time A	Time Held Anal.	Q
SMCSD0101FA	0910009-001A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	14-Oct-09	40	4.9	
SMCSD0401FA	0910009-002A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	14-Oct-09	40	4.9	
SMCSD0401FC	0910009-003A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	14-Oct-09	40	5	
SMCSD0501FA	0910009-004A	01-Oct-09	02-Oct-09	09-Oct-09	14	8.2	14-Oct-09	40	5	

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8082 **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

Instrument ID #: GC90_20C **Calibration ID:** 1650

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
PIBLK	PIBLK	22-Sep-09	17:04	22-Sep-09	17:37
AR1660-1	AR1660-1	22-Sep-09	17:37	22-Sep-09	18:09
AR1660-2	AR1660-2	22-Sep-09	18:09	23-Sep-09	9:52
AR1660-3	AR1660-3	23-Sep-09	9:52	23-Sep-09	10:25
AR1660-4	AR1660-4	23-Sep-09	10:25	23-Sep-09	10:57
AR1660-5	AR1660-5	23-Sep-09	10:57	23-Sep-09	11:29
AR1221-1	AR1221-1	23-Sep-09	11:29	23-Sep-09	12:01
AR1221-2	AR1221-2	23-Sep-09	12:01	23-Sep-09	12:34
AR1221-3	AR1221-3	23-Sep-09	12:34	23-Sep-09	13:06
AR1221-4	AR1221-4	23-Sep-09	13:06	23-Sep-09	13:38
AR1221-5	AR1221-5	23-Sep-09	13:38	23-Sep-09	14:11
AR1232-1	AR1232-1	23-Sep-09	14:11	23-Sep-09	14:43
AR1232-2	AR1232-2	23-Sep-09	14:43	23-Sep-09	15:15
AR1232-3	AR1232-3	23-Sep-09	15:15	23-Sep-09	15:48
AR1232-4	AR1232-4	23-Sep-09	15:48	23-Sep-09	16:20
AR1232-5	AR1232-5	23-Sep-09	16:20	23-Sep-09	16:52
AR1242-1	AR1242-1	23-Sep-09	16:52	23-Sep-09	17:25
AR1242-2	AR1242-2	23-Sep-09	17:25	23-Sep-09	17:57
AR1242-3	AR1242-3	23-Sep-09	17:57	23-Sep-09	18:29
AR1242-4	AR1242-4	23-Sep-09	18:29	23-Sep-09	19:02
AR1242-5	AR1242-5	23-Sep-09	19:02	23-Sep-09	19:34
AR1248-1	AR1248-1	23-Sep-09	19:34	23-Sep-09	20:06
AR1248-2	AR1248-2	23-Sep-09	20:06	23-Sep-09	20:39
AR1248-3	AR1248-3	23-Sep-09	20:39	23-Sep-09	21:11
AR1248-4	AR1248-4	23-Sep-09	21:11	23-Sep-09	21:43
AR1248-5	AR1248-5	23-Sep-09	21:43	23-Sep-09	22:15
AR1254-1	AR1254-1	23-Sep-09	22:15	23-Sep-09	22:48
AR1254-2	AR1254-2	23-Sep-09	22:48	23-Sep-09	23:20
AR1254-3	AR1254-3	23-Sep-09	23:20	23-Sep-09	23:52
AR1254-4	AR1254-4	23-Sep-09	23:52	24-Sep-09	0:25
AR1254-5	AR1254-5	24-Sep-09	0:25	24-Sep-09	6:52
AR1221S.S.	AR1221S.S.	24-Sep-09	6:52	24-Sep-09	7:25
AR1232 S.S.	AR1232 S.S.	24-Sep-09	7:25	24-Sep-09	7:57
AR1242 S.S.	AR1242 S.S.	24-Sep-09	7:57	24-Sep-09	8:29
AR1248 S.S.	AR1248 S.S.	24-Sep-09	8:29	24-Sep-09	9:01

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 11
INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: SW8082 **AAB#:**

Lab Name: Life Science Laboratories, Inc. **Contract #:**

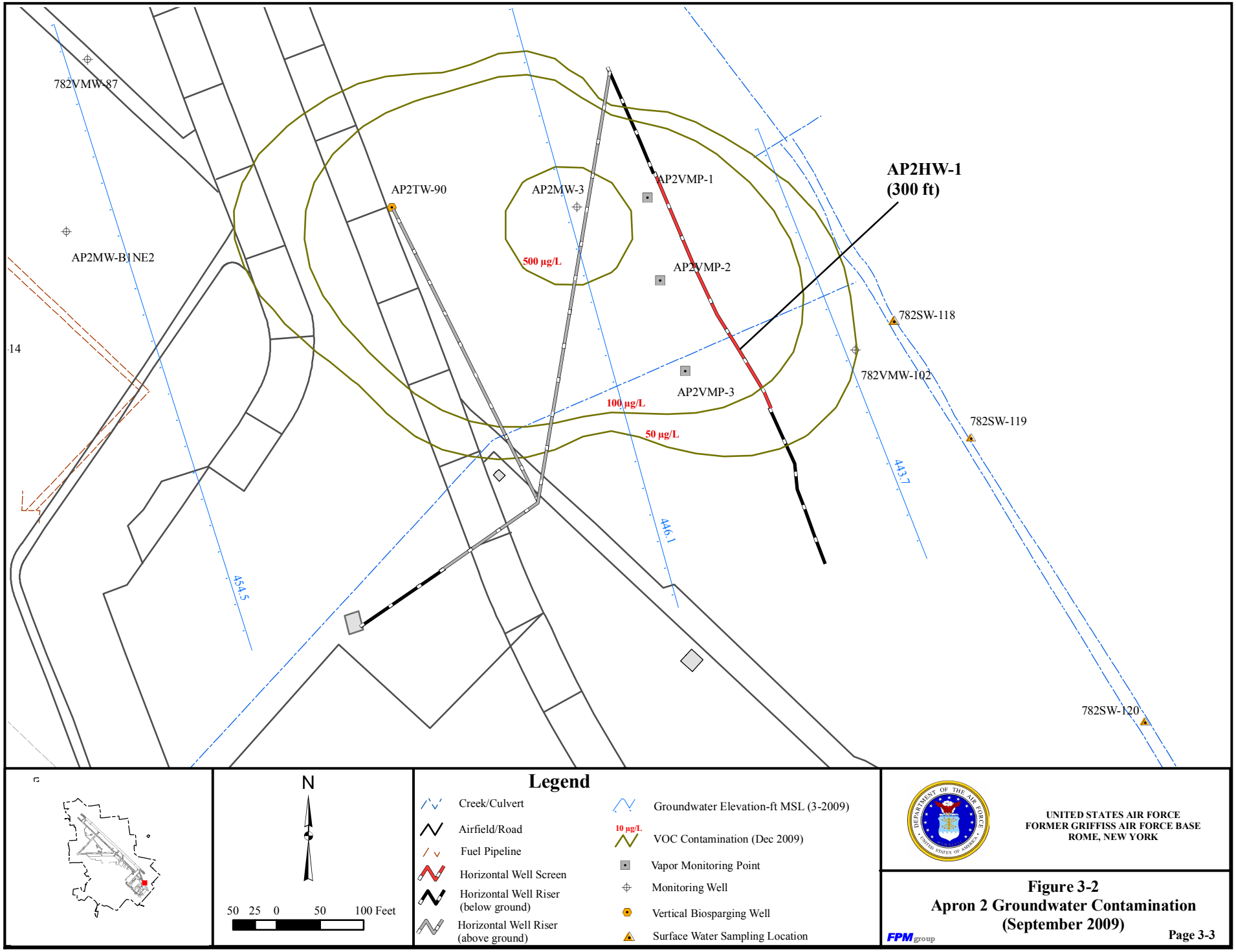
Instrument ID #: GC90 20C **Calibration ID:** 1650

Field Sample ID/Std ID/ Blank ID/QC Sample ID	Lab Sample ID	Date Analysis Started	Time Analysis Started	Date Analysis Completed	Time Analysis Completed
AR1254 S.S.	AR1254 S.S.	24-Sep-09	9:01	24-Sep-09	12:33
AR1660 S.S.	AR1660 S.S.	24-Sep-09	12:33	24-Sep-09	12:33
PIBLK	PIBLK	14-Oct-09	13:20	14-Oct-09	13:52
AR1660-3	AR1660-3	14-Oct-09	13:52	14-Oct-09	14:24
LCSD-10103	LCSD-10103	14-Oct-09	15:29	14-Oct-09	16:01
MB-10119	MB-10119	14-Oct-09	16:01	14-Oct-09	16:34
LCS-10119	LCS-10119	14-Oct-09	16:34	14-Oct-09	17:06
LCSD-10119	LCSD-10119	14-Oct-09	17:06	14-Oct-09	17:38
SMCSD0101FA	0910009-001A	14-Oct-09	17:38	14-Oct-09	18:11
SMCSD0401FA	0910009-002A	14-Oct-09	18:11	14-Oct-09	18:43
SMCSD0401FC	0910009-003A	14-Oct-09	18:43	14-Oct-09	19:15
SMCSD0501FA	0910009-004A	14-Oct-09	19:15	15-Oct-09	1:11
PIBLK	PIBLK	15-Oct-09	1:11	15-Oct-09	1:43
AR1660-3	AR1660-3	15-Oct-09	1:43	15-Oct-09	8:43
PIBLK	PIBLK	15-Oct-09	8:43	15-Oct-09	9:15
AR1660-3	AR1660-3	15-Oct-09	9:15	15-Oct-09	10:52
AR1254-3	AR1254-3	15-Oct-09	10:52	15-Oct-09	10:52

Comments:

Appendix D
Potentially Impacting Site Results and Maps

Apron 2



UNITED STATES AIR FORCE
FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Figure 3-2
Apron 2 Groundwater Contamination
(September 2009)

FPM group

Y:\GIS_Projects\Griffiss\Projects\1000-06-08\Apron 2\Apron2_0407_plume.mxd

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2MW-3										
Sample ID					AP2M03-27BA	AP2M03-27CA	AP2M03-27DA	AP2M03-27EA	AP2M03-27FA	AP2M03-27GA	AP2M03-27HA
Date of Collection					2/7/2003	6/27/2003	9/19/2003	12/9/2003	3/31/2004	7/2/2004	9/21/2004
Sample Depth (ft)					27	27	27	27	27	27	27
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*				U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*				U	U	U	U	U	U	U
benzene	1				1100	2200 J	2400	2200	2100	1900	1200
ethylbenzene	5*				U	U	U	U	U	50 F	60
isopropylbenzene	5*				U	U	U	U	U	U	U
n-butylbenzene	5*				U	U	U	U	U	U	U
n-propylbenzene	5*				U	U	U	U	U	U	U
o-xylene	5*	AP2MW-3 added to Chlorinated LTM Network			U	U	U	U	U	U	U
naphthalene	10	February 2002			U	U	U	U	U	75 F	42 F
m,p,-xylene	5*				U	U	U	U	U	U	U
methyl tert-butyl ether	10				270	310	370	210	190 F	270 F	190 F
p-isopropyltoluene	5*				U	U	U	U	U	U	U
sec-butylbenzene	5*				U	U	U	U	U	U	U
t-butylbenzene	5*				U	U	U	U	U	U	U
toluene	5*				U	U	U	U	U	18 F	14 F
Total VOCs					1,370	2,510	2,770	2,410	2,290	2,313	1,506

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2MW-3									
Sample ID		AP2M03-20KA	AP2M03-19LA	AP2M03-20MA	AP2M03-21NA	AP2M03-20OA	AP2M03-19PA	AP2M03-20QA	AP2M03-20RA	AP2M03-19SA	AP2M03-20SB
Date of Collection		1/3/2005	4/8/2005	6/23/2005	9/28/2005	12/30/2005	3/22/2006	6/20/2006	9/20/2006	12/18/2006	2/28/2007
Sample Depth (ft)		20	19	20	21	20	19	20	20	19	20
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	6.9 J	38	110 J	53	180	210	152	176	206
1,3,5-trimethylbenzene	5*	U	U	U	21 F	10	37	33	37	37 F	54.5
benzene	1	1200	920	1200	980 J	720	1400	1300	1120	1140	1120
ethylbenzene	5*	160	130	220	150 J	84	180	190	141	173	140
isopropylbenzene	5*	3 F	4.9 J	12	14 J	8.2	17	17	12.4 F	14.5 F	18 F
n-butylbenzene	5*	U	U	U	UJ	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	0.83 J	2.2 F	9.4	10	8.40 F	16.5 F	25 F
o-xylene	5*	U	5.4 J	8.7 F	3.2 J	2.2 F	5.1	4.5	3.20 F	U	U
naphthalene	10	14	1.9 J	7.2 F	27 J	U	62	61	57.4	59.5	143
m,p,-xylene	5*	450	420	780	550 J	240	690	780	658	850	693
methyl tert-butyl ether	10	U	180	U	UJ	U	U	U	141	116 F	117 F
p-isopropyltoluene	5*	U	U	U	UJ	U	U	6.8	U	U	U
sec-butylbenzene	5*	U	U	U	UJ	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	UJ	U	0.4 F	0.33 F	U	U	U
toluene	5*	11	8.6 F	14	10 J	8.8	20	16	12.2 F	16 F	11 F
Total VOCs		1,828	1,678.91	2,279.9	1,866.03	1,208.4	2,600.9	2,628.63	2,342.6	2,598.5	2,545.5

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2MW-3									
Sample ID		AP2M03-20TA	AP2M03-20UA	AP2M03-21VA	AP2M03-20WA	AP2M03-19XA	AP2M03-20YA	AP2M03-22ZA	AP2M03-20A1A	AP2M03-20A2A	AP2M03-20A3A
Date of Collection		4/10/2007	6/28/2007	9/17/2007	12/5/2007	3/24/2008	6/11/2008	9/9/2008	12/17/2008	3/16/2009	6/23/2009
Sample Depth (ft)		20	20	21	20	19	20	22	20	20	20
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	129	44 F	89.20	78.20	46.5 F	44.6	43.5	26.4	33.4	20.0
1,3,5-trimethylbenzene	5*	41 F	44 F	6.9 F	20.5 F	14.5 F	8.4 F	10.5 F	6.4 F	7.4 F	9.2 F
benzene	1	1000	997	892	696	774	767	820.0	644	568	581.0
ethylbenzene	5*	65	27 F	28.3	28.5	38 F	9.4 F	9 F	4.8 F	5.2 F	2.4 F
isopropylbenzene	5*	10.5 F	U	6 F	8 F	30.5 F	U	U	U	2.4 F	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	12.5 F	U	9.5 F	11.2 F	27.5	6.4 F	5.5 F	3.2 F	4.2 F	2.6 F
o-xylene	5*	U	U	1.1 F	U	U	U	U	U	U	U
naphthalene	10	84.5	15.5 F	10.1	12.8 F	31.5 F	16.6 F	16.5 F	5.4 F	12.2 F	18.8 F
m,p,-xylene	5*	328	146	201	196	208	94.2	71.0	45.4	55.4	41.8
methyl tert-butyl ether	10	108 F	U	114 F	81.5 F	84 F	U	65 F	52.6 F	51.8 F	43.6 F
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	5 F	U	3.5 F	4.75 F	U	U	U	U	U	U
Total VOCs		1,783.5	1,273.5	1,361.6	1,137.5	1,254.5	946.6	1041	788.2	740	719.4

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2MW-3									
Sample ID		**AP2M03-20A4A**									
Date of Collection		**9/10/2009**									
Sample Depth (ft)		**20**									
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	25.6									
1,3,5-trimethylbenzene	5*	5.6 F									
benzene	1	647									
ethylbenzene	5*	2.2 F									
isopropylbenzene	5*	2.2 F									
n-butylbenzene	5*	U									
n-propylbenzene	5*	3 F									
o-xylene	5*	U									
naphthalene	10	7.8 F									
m,p,-xylene	5*	39 F									
methyl tert-butyl ether	10	55 F									
p-isopropyltoluene	5*	U									
sec-butylbenzene	5*	U									
t-butylbenzene	5*	U									
toluene	5*	U									
Total VOCs		787.4									

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	782VMW-102									
Sample ID		NA	782VM102-19BA	782VM102-19CA	782VM102-19DA	782VM102-19EA	782VM102-19FA	782VM102-19GA	782VM102-19HA	782M102-09KA	782M102-08LA
Date of Collection		2/20/2002	1/30/2003	6/25/2003	9/19/2003	12/9/2003	3/31/2004	7/2/2004	9/21/2004	1/3/2005	4/8/2005
Sample Depth (ft)			19	19	19	19	19	19	19	9	8
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	U	2000	3200	2900	1900	2200
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	25 J	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U		U	U
methyl tert-butyl ether	10	86	120	480	630	200	310	340	230 F	170	300
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		86	120	480	630	200	2,310	3,540	3,155	2,070	2,500

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	782VMW-102									
Sample ID		**782M102-09MA**	**782M102-09NA**	**782M102-08OA**	**782M102-09PA**	**782M102-08QA**	**782M102-09RA**	**782M102 08SA**	**782M102-09SB**	**782M102-09TA**	**782M102-09UA**
Date of Collection		**6/23/2005**	**9/28/2005**	**12/30/2005**	**3/22/2006**	**6/20/2006**	**9/20/2006**	**12/18/2006**	**2/28/2007**	**4/10/2007**	**6/19/2007**
Sample Depth (ft)		**9**	**9**	**8**	**9**	**8**	**9**	**8**	**9**	**9**	**9**
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U		U	U
benzene	1	32	1400	720	1700 M	1600	1460	1820 ♦	1450	1030	606
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	UM	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	2.8	110F	87	280 M	60	88	93 F	134 F	69 F	1.19
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		34.8	1,510	807	1,980	1,660	1,548	1,913	1,584	1,099	607.19

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	782VMW-102									
Sample ID		**782M102-09VA**	**782M102-08WA**	**782M102-08XA**	**782M102-09YA**	**782M102-10ZA**	**782M102-08A1A**	**782M102-08A2A**	**782M102-09A3A**	**782M102-09A4A**	
Date of Collection		**9/17/2007**	**12/5/2007**	**3/24/2008**	**6/11/2008**	**3/17/2009**	**12/16/2008**	**3/16/2009**	**6/23/2009**	**9/10/2009**	
Sample Depth (ft)		**9**	**8**	**8**	**9**	**10**	**8**	**8**	**9**	**9**	
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	
benzene	1	726	435 ♦	251 ♦	236	58.9	34.7 M	17 M ♦	46.6	52.2	
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	
o-xylene	5*	U	U	U	U	U	U	U	U	U	
naphthalene	10	U	U	U	U	U	U	0.73 F ♦	U	U	
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	
methyl tert-butyl ether	10	53 F	37 F	28.7 F	U	15.9	0.58 F	0.72 F ♦	0.58 F	1.84 F	
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	
toluene	5*	U	U	U	U	U	U	U	U	U	
Total VOCs		779	472	280	236	74.8	35.28	18.45	47.18	54.04	

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-118														
Sample ID	Groundwater standards (µg/L)	782S11801 AA	782S11801 BA	782S11801 CA	782S11801 DA	782S11801 EA	782S11801 FA	782S11801 GA	782S11801 HA	782S11801 IA	782S11801 JA	782SW11801 MA	782SW11801 NA	782SW11801 OA	782SW11801 PA	782SW11801 QA
Date of Collection		5/7/2002	2/10/2003	2/27/2003	9/19/2003	12/9/2003	3/31/2004	7/2/2004	9/21/2004	12/29/2004	4/6/2005	6/24/2005	9/28/2005	12/30/2005	3/22/2006	6/20/2006
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	3.8	3.8	1.5	13	6.2	9.1	7.1	25	5.2	U	3.3 B	5.2
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methyl tert butyl ether (MTBE)	10	1.59 F	1.1	0.86 F	4.2 F	0.71 F	0.24 F	2.5	1 F	0.86 F	0.51 F	2.5	U	U	U	0.6 F
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs **		1.59	1.1	0.86	8	4.51	1.74	15.5	7.2	9.96	7.61	27.5	5.2	0	3.3	5.8

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-118														
Sample ID	Groundwater standards (µg/L)	782SW11801 RA	782SW11801 SA	782SW11801 SB	782SW11801 SB	782SW11801 UA	782SW11801 VA	782SW11801 WA	782SW11801 XA	782SW11801 YA	782SW11801 ZA	782SW11801 BB	782SW11801 A2A	782SW11801 DA	782SW11801 EB	
Date of Collection		9/20/2006	12/18/2006	2/28/2007	4/10/2007	7/2/2007	9/11/2007	12/10/2007	3/17/2008	6/12/2008	9/30/2008	12/30/2008	4/16/2009	6/16/2009	9/28/2009	
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
benzene	1	3.75	6.84	0.7	5.17	22.8	10.2	3.41	2.82	2.67	3.78	1.11	0.64	0.62	0.74	
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	0.390 F	
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
ethylbenzene	5*	0.14 F	0.34 F	U	0.13 F	0.2 F	U	U	U	U	U	U	U	U	U	
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
m,p,-xylene	5*	0.17 F	0.63 F	U	0.22 F	0.32 F	U	U	U	U	U	U	U	U	U	
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
toluene	5*	0.12 F	U	U	U	U	U	U	U	U	U	U	U	U	U	
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	0.110 F	
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
methyl tert butyl ether (MTBE)	10	0.45 F	0.79 F	0.15	0.62 F	3.27 F	1.52 F	0.95 F	U	0.55 F	1.05 F	0.22 F	U	0.22 F	0.300 F	
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Total VOCs **		4.63	8.6	0.85	6.14	26.59	11.72	4.36	2.82	3.22	4.83	1.33	0.64	0.84	1.54	

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-119														
Sample ID	Groundwater standards (µg/L)	782S11901 AA	782S11901 BA	782S11901 CA	782S11901 DA	782S11901 EA	782S11901 FA	782S11901 GA	782S11901 HA	782S11901 IA	782S11901 JA	782SW11901 MA	782SW11901 NA	782SW11901 OA	782SW11901 PA	782SW11901 QA
Date of Collection		5/7/2002	2/10/2003	2/27/2003	9/19/2003	12/9/2003	3/31/2004	7/2/2004	9/21/2004	12/29/2004	4/6/2005	6/24/2005	9/28/2005	12/30/2005	3/22/2006	6/20/2006
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	3.1	3.6	1.8	6.6	5.1	8.3	6.4	18	15	3.5	7.1	23
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U		U	U	0.27 F
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methyl tert butyl ether (MTBE)	10	1.59 F	1	2.5 F	5.2	1.3 F	0.52 F	1.8 F	1 F	1 F	1.2 F	6.5	2.1	U	U	U
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs **		1.59	1	2.5	8.3	4.9	2.32	8.4	6.1	9.3	7.6	24.5	17.1	3.5	7.1	23.27

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-119														
Sample ID	Groundwater standards (µg/L)	782SW11901 RA	782SW11901 SA	782SW11901 SB	782SW11901 SB	782SW11901 UA	782SW11901 VA	782SW11901 WA	782SW11901 XA	782SW11901 YA	782SW11901 ZA	782SW11901 BB	782SW11901 A2A	782SW11901 DA	782SW11901 EB	
Date of Collection		9/20/2006	12/18/2006	2/28/2007	4/10/2007	7/2/2007	9/11/2007	12/10/2007	3/17/2008	6/12/2008	9/30/2008	12/30/2008	4/16/2009	6/16/2009	9/28/2009	
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	11.6 ♦	U	U	U	
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
benzene	1	6.81	7	5.89	4.37	11.2	5.79	3.87	2.36	4.39	3.21	1.25	0.62	0.59	0.71	
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
ethylbenzene	5*	0.15 F	0.29 F	0.24 F	0.12 F	0.11 F	U	U	U	U	U	U	U	U	U	
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
m,p,-xylene	5*	0.18 F	0.48 F	0.46 F	0.2 F	0.23 F	U	U	U	U	U	U	U	U	U	
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
toluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
methyl tert butyl ether (MTBE)	10	0.99 F	0.76 F	0.68 F	0.57 F	1.98 F	1.37 F	0.87 F	U	0.79 F	0.99 F	0.26 F	U	0.19 F	0.370 F	
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Total VOCs **		8.13	8.53	7.27	5.26	13.52	7.16	4.74	2.36	5.18	4.2	1.51	0.62	0.78	1.08	

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-120														
Sample ID	Groundwater standards (µg/L)	782S12001 AA	782S12001 BA	782S12001 CA	782S12001 DA	782S12001 EA	782S12001 FA	782S12001 GA	782S12001 HA	782S12001 IA	782S12001 JA	782SW12001 MA	782SW12001 NA	782SW12001 OA	782SW12001 PA	782SW12001 QA
Date of Collection		5/7/2002	2/10/2003	2/27/2003	9/19/2003	12/9/2003	3/31/2004	7/2/2004	9/21/2004	12/29/2004	4/6/2005	6/24/2005	9/28/2005	12/30/2005	3/22/2006	6/20/2006
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	0.26 F	U	U	U	0.37 F
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
benzene	1	2.86	1	0.24 F	2.8	3.7	1.8	6.7	5	9	5.2	14	10	3.5	9.2	16
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	0.37 F	0.23 F	U	0.31 F	U	U	0.22 F	0.22 F	0.36 F	U	0.58	U	U	U	0.53
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	0.87 F	0.58 F	U	0.64 F	U	U	0.58 F	0.50 F	0.91 F	U	2.2	0.92 F	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methyl tert butyl ether (MTBE)	10	1.74 F	1.1	1.7 F	4.6 F	1.3 F	0.68 F	1.8 F	1.3 F	U	0.89 F	U	2	0.5 F	U	U
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs **		5.84	2.91	1.94	8.35	5	2.48	9.3	7.02	10.27	6.09	17.04	12.92	4	9.2	16.9

For notes, please refer to the beginning of Appendix A.

Apron 2
Surface Water Sampling Results

Sample Location	NYS	782SW-120														
Sample ID	Groundwater standards (µg/L)	782SW12001 RA	782SW12001 SA	782SW12001 SB	782SW12001 SB	782SW12001 UA	782SW12001 VA	782SW12001 WA	782SW12001 XA	782SW12001 YA	782SW12001 ZA	782SW12001 A2A	782SW12001 DA	AP2SW12001 A4A		
Date of Collection		9/20/2006	12/18/2006	2/28/2007	4/10/2007	7/2/2007	9/11/2007	12/10/2007	3/17/2008	6/12/2008	9/30/2008	4/16/2009	6/16/2009	9/24/2009		
Sample Depth (ft TOIC)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1		
VOCs (µg/L)																
1,1,1,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,1-trichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,2,2-tetrachloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1,2-trichloroethane	1	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1-dichloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,1-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,3-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,3-trichloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-dichloroethane	0.6	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2,4-trimethylbenzene	5*	0.57 F	U	U	U	0.23 F	U	0.16 F	0.24 F	0.59 F	U	0.33 F	U	0.18 F		
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-dibromoethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,2-dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,3,5-trimethylbenzene	5*	U	U	U	U	0.33 F	U	U	U	U	U	U	U	U		
1,3-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,3-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
1,4-dichlorobenzene	3	U	U	U	U	U	U	U	U	U	U	U	U	U		
1-chlorohexane	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
2,2-dichloropropane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
2-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U		
4-chlorotoluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U		
4-methyl-2-pentanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
acetone	50	U	U	U	U	U	U	U	U	U	U	U	U	U		
benzene	1	4.35	5.95	5.13	2.72	6.57	4.1	3.65	2.3	3.87	2.64	1.16	0.59	0.87		
bromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
bromochloromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
bromodichloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
bromoform	50	U	U	U	U	U	U	U	U	U	U	U	U	U		
carbon tetrachloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U		
chlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U		
chloroethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U		
chloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
cis-1,2-dichloroethylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
cis-1,3-dichloropropene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
dibromochloromethane	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
dichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
dibromomethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
ethylbenzene	5*	0.24 F	0.25	0.23 F	0.18 F	0.35 F	U	0.15 F	0.18 F	0.21 F	0.15 F	0.12 F	U	0.13 F		
hexachlorobutadiene	0.5	U	U	U	U	U	U	U	U	U	U	U	U	U		
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
methylene chloride	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
o-xylene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
naphthalene	10	U	U	U	U	0.14 F	U	U	U	U	U	0.15 F	U	0.23 F		
m,p,-xylene	5*	0.64 F	0.44 F	0.43 F	0.43 F	0.97 F	U	0.38 F	1.08 F	0.57 F	0.27 F	0.35 F	U	U		
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
styrene	50	U	U	U	U	U	U	U	U	U	U	U	U	U		
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
toluene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
tetrachloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
trans-1,2-dichloroethene	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
trans-1,3-dichloropropene	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
trichloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U		
trichlorofluoromethane	5*	U	U	U	U	U	U	U	U	U	U	U	U	U		
methyl tert butyl ether (MTBE)	10	1 F	0.84 F	0.71 F	0.42 F	1.61 F	1.19 F	0.76 F	U	0.86 F	0.82 F	U	0.26 F	0.48 F		
2-butanone	--	U	U	U	U	U	U	U	U	U	U	U	U	U		
vinyl chloride	2	U	U	U	U	U	U	U	U	U	U	U	U	U		
Total VOCs **		6.8	7.48	6.5	3.75	10.2	5.29	5.1	3.8	6.1	3.88	2.2	0.85	1.89		

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-1									
Sample ID		AP2VM01M 14SA	AP2VM01D 15SA	AP2VM01D 16SB	AP2VM01D 16UA	AP2VM01D 16VA	AP2VM01D 16WA	AP2VM01M 15WA	AP2VM01M 15XA	AP2VM01D 15XA	AP2VM01M 15YA
Date of Collection		12/18/2006	12/18/2006	3/1/2007	6/28/2007	9/18/2007	12/5/2007	12/5/2007	3/24/2008	3/24/2008	6/11/2008
Sample Depth (ft)		14	15	16	16	16	16	15	15	15	15
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	16 F	U	U
1,2,4-trimethylbenzene	5*	358	2.03	1.3	U	U	U	200	U	U	15.1
1,3,5-trimethylbenzene	5*	71.5	0.32 F	0.730 F	U	U	U	43	U	U	5.04
benzene	1	1260	1.81	5.5 F	U	U	U	368	633	U	425
ethylbenzene	5*	212	0.85 F	U	U	U	U	71.4	U	U	3.14
isopropylbenzene	5*	24 F	U	U	U	U	U	15.8	U	U	1.68
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	13.5 F	U	U	U	U	U	17.5	U	U	1.92
o-xylene	5*	U	U	U	U	U	U	1.4 F	U	U	U
naphthalene	10	97	1.29	2.19	U	U	U	41.4	25.5	U	10.1
m,p,-xylene	5*	970	4.29	5 F	U	U	U	105	U	U	7.64
methyl tert-butyl ether	10	114 F	3.04 F	4.1 F	U	6.5	3.74 F	93.8	101.0	6.58	91.4 F
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	18 F	U	0.11 F	U	U	U	1.6 F	U	U	U
trichloroethylene (TCE)	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		3138	13.63	18.93	0	6.5	3.74	958.9	775.5	6.58	561.02

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-1									
Sample ID		AP2VM01D 16YA	AP2VM01M 16ZA	AP2VM01D 17ZA	AP2VM01M 15A1A	AP2VM01D 16A1A	AP2VM01M 15A2A	AP2VM01D 15A2A	AP2VM01M 15A3A	AP2VM01D 16A3A	AP2VM01M 15A4A
Date of Collection		6/11/2008	9/9/2008	9/9/2008	12/17/2008	12/17/2008	3/16/2009	3/16/2009	6/24/2009	6/24/2009	9/10/2009
Sample Depth (ft)		16	16	17	15	16	15	15	15	16	15
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	7.2 F	U	U	U	U	U	2.4 F	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	U	886	U	626	U	550	U	313	U	309
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	2.8 F	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	6.99 J	69 F	6.75	73.5 F	7.75	76.8 F	8.79	66.1	10.2	69.4 F
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
trichloroethylene (TCE)	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		6.99	965.00	6.75	699.5	7.75	626.8	8.79	381.5	10.2	378.4

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-1									
Sample ID		AP2VM01D 16A4A									
Date of Collection		9/10/2009									
Sample Depth (ft)		16									
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U									
1,2,4-trimethylbenzene	5*	U									
1,3,5-trimethylbenzene	5*	U									
benzene	1	U									
ethylbenzene	5*	U									
isopropylbenzene	5*	U									
n-butylbenzene	5*	U									
n-propylbenzene	5*	U									
o-xylene	5*	U									
naphthalene	10	U									
m,p,-xylene	5*	U									
methyl tert-butyl ether	10	11.2									
p-isopropyltoluene	5*	U									
sec-butylbenzene	5*	U									
t-butylbenzene	5*	U									
toluene	5*	U									
trichloroethylene (TCE)	5*	U									
Total VOCs		11.2									

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-2									
Sample ID		AP2VM02M 17SA	AP2VM02D 17SA	AP2VM02D 18SB	AP2VM02D 17UA	AP2VM02D 18VA	AP2VM02D 17WA	AP2VM02D 17XA	AP2VM02D 17YA	AP2VM02D 18ZA	AP2VM02D 17A1A
Date of Collection		12/18/2006	12/18/2006	3/1/2007	6/28/2007	9/18/2007	12/5/2007	3/24/2008	6/11/2008	9/9/2008	12/17/2008
Sample Depth (ft)		17	17	18	17	18	17	17	17	18	17
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	0.1 F	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	1150	20.2	22.6	2.33	U	1.39	0.63	0.70	0.56 F	0.44 F
ethylbenzene	5*	U	0.28 F	0.11 F	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	0.17 F	U	U	U	U	U	U	U	U
o-xylene	5*	U	0.1 F	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	0.25 F	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	85 F	5.8	2.42 F	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	15.5 F	0.17 F	0.3 F	U	U	U	U	U	U	U
trichloroethylene (TCE)	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		1250.50	27.07	25.43	2.33	0	1.39	0.63	0.7	0.56	0.44

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-2									
Sample ID		AP2VM02D 17A2A	AP2VM02M 17A3A	AP2VM02D 17A3A	AP2VM02M 18A4A	AP2VM02D 18A4A					
Date of Collection		3/16/2009	6/24/2009	6/24/2009	9/10/2009	9/10/2009					
Sample Depth (ft)		17	17	17	18	18					
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U					
1,2,4-trimethylbenzene	5*	U	U	U	U	U					
1,3,5-trimethylbenzene	5*	U	U	U	U	U					
benzene	1	0.29 F	0.27 F	0.16 F	U	0.43 F					
ethylbenzene	5*	U	U	U	U	U					
isopropylbenzene	5*	U	U	U	U	U					
n-butylbenzene	5*	U	U	U	U	U					
n-propylbenzene	5*	U	U	U	U	U					
o-xylene	5*	U	U	U	U	U					
naphthalene	10	U	U	U	U	U					
m,p,-xylene	5*	U	U	U	U	U					
methyl tert-butyl ether	10	U	U	U	U	U					
p-isopropyltoluene	5*	U	U	U	U	U					
sec-butylbenzene	5*	U	U	U	U	U					
t-butylbenzene	5*	U	U	U	U	U					
toluene	5*	U	U	U	U	U					
trichloroethylene (TCE)	5*	U	U	U	U	U					
Total VOCs		0.29	0.27	0.16	0	0.43					

For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-3									
Sample ID		AP2VM03M 19SA	AP2VM03D 17SA	AP2VM03D 18SB	AP2VM03D 17UA	AP2VM03D 18VA	AP2VM03D 18WA	AP2VM03D 17XA	AP2VM03D 18YA	AP2VM03D 19ZA	AP2VM03D 18A1A
Date of Collection		12/18/2006	12/18/2006	3/1/2007	6/28/2007	9/18/2007	12/5/2007	3/24/2008	6/11/2008	9/9/2008	12/17/2008
Sample Depth (ft)		19	17	18	17	18	18	17	18	19	18
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	0.13 F	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	0.16 F	0.15 F	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	0.12 F	0.12 F	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	0.32 F	0.44 F	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	0.19 F	U	U	U	U	U	U	U	U	U
trichloroethylene (TCE)	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		0.92	0.71	0	0	0	0	0	0	0	0

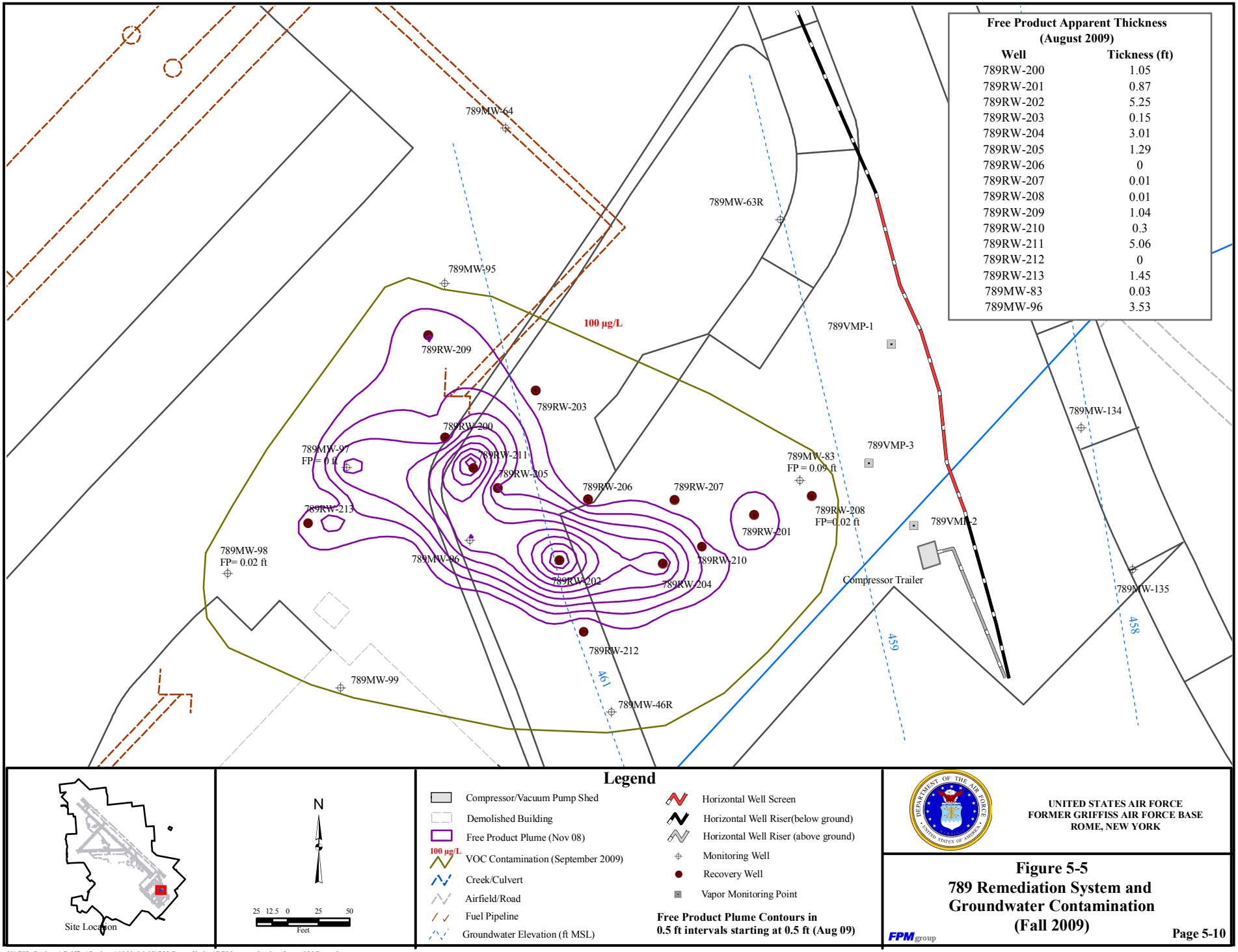
For notes, please refer to the beginning of Appendix A.

Apron 2
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	AP2VMP-3									
Sample ID		AP2VM03D 17A2A	AP2VM03M 19A3A	AP2VM03D 18A3A	AP2VM03M 20A4A	AP2VM03D 18A4A					
Date of Collection		3/16/2009	6/24/2009	6/24/2009	9/10/2009	9/10/2009					
Sample Depth (ft)		17	19	18	20	18					
VOCs (µg/L)											
1,2,4-trichlorobenzene	5*	U	U	U	U	U					
1,2,4-trimethylbenzene	5*	U	U	U	U	U					
1,3,5-trimethylbenzene	5*	U	U	U	U	U					
benzene	1	U	U	U	U	U					
ethylbenzene	5*	U	U	U	U	U					
isopropylbenzene	5*	U	U	U	U	U					
n-butylbenzene	5*	U	U	U	U	U					
n-propylbenzene	5*	U	U	U	U	U					
o-xylene	5*	U	U	U	U	U					
naphthalene	10	U	U	U	U	U					
m,p,-xylene	5*	U	U	U	U	U					
methyl tert-butyl ether	10	U	U	U	U	U					
p-isopropyltoluene	5*	U	U	U	U	U					
sec-butylbenzene	5*	U	U	U	U	U					
t-butylbenzene	5*	U	U	U	U	U					
toluene	5*	U	U	U	U	U					
trichloroethylene (TCE)	5*	U	U	U	U	U					
Total VOCs		0	0	0	0	0					

For notes, please refer to the beginning of Appendix A.

Building 789



Free Product Apparent Thickness (August 2009)

Well	Tickness (ft)
789RW-200	1.05
789RW-201	0.87
789RW-202	5.25
789RW-203	0.15
789RW-204	3.01
789RW-205	1.29
789RW-206	0
789RW-207	0.01
789RW-208	0.01
789RW-209	1.04
789RW-210	0.3
789RW-211	5.06
789RW-212	0
789RW-213	1.45
789MW-83	0.03
789MW-96	3.53

UNITED STATES AIR FORCE
FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Figure 5-5
789 Remediation System and Groundwater Contamination (Fall 2009)

FPM group

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Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-63R									
Sample ID		789M63R-24AA	789M63R-24BA	789M63R-23EA	789M63R-22FA	789M63R-22EA	789M63R-23FA	789M63R-22GA	789M63R-22HA	789M63R-22SA	789M63R-22TA
Date of Collection		7/10/2002	10/3/2002	12/11/2002	4/8/2003	7/2/2003	9/23/2003	12/22/2003	4/8/2004	12/20/2006	4/12/2007
Sample Depth (ft)		24	24	23	22	22	23	22	22	22	22
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	0.2 F	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	5.7	1.4	1.5	2.8	0.26	0.28 F	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	0.15 F	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	0.092 F	U	U	U	U	U	U
Total VOCs		6.7	1.7	1.8	2.9	0.26	0.28	0	0	0.35	0

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-63R									
Sample ID		789M63R-22UA	789M63R-23VA	789M63R-21XA		789M63R-22ZA	789M63R-21A2A				
Date of Collection		6/18/2007	9/18/2007	3/25/2008		9/9/2008	3/23/2009				
Sample Depth (ft)		22	23	21		22	21				
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U		0.45 F	U				
1,3,5-trimethylbenzene	5*	U	U	U		0.27 F	U				
benzene	1	U	U	U		U	U				
ethylbenzene	5*	U	U	U		U	U				
isopropylbenzene	5*	U	U	U		U	U				
n-butylbenzene	5*	U	U	U		U	U				
n-propylbenzene	5*	U	U	U	Semi-Annual	U	U				
o-xylene	5*	U	U	U	Sampling	U	U				
naphthalene	10	U	U	U		U	U				
m,p,-xylene	5*	U	U	U		U	U				
methyl tert-butyl ether	10	U	U	U		U	U				
p-isopropyltoluene	5*	U	U	U		U	U				
sec-butylbenzene	5*	U	U	U		U	U				
t-butylbenzene	5*	U	U	U		U	U				
toluene	5*	U	U	U		U	U				
Total VOCs		0	0	0		0.72	0				

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-83									
Sample ID											
Date of Collection		7/10/2002	10/3/2002	12/11/2002	4/8/2003	7/2/2003	9/23/2003	12/22/2003	4/8/2004	7/7/2004	9/24/2004
Sample Depth (ft)											
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	No Sample	Free Product 5.39 ft	No Sample	Free Product 6.57 ft	Free Product 5.71 ft	Free Product 5.25 ft	Free Product	Free Product 4.85 ft	Free Product 2.91 ft	Free Product Recovery Ongoing
1,3,5-trimethylbenzene	5*										
benzene	1										
ethylbenzene	5*										
isopropylbenzene	5*										
n-butylbenzene	5*										
n-propylbenzene	5*										
o-xylene	5*										
naphthalene	10										
m,p,-xylene	5*										
methyl tert-butyl ether	10										
p-isopropyltoluene	5*										
sec-butylbenzene	5*										
t-butylbenzene	5*										
toluene	5*										
Total VOCs											

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-83									
Sample ID											789M83-23TA
Date of Collection		1/3/2005	4/7/2005	6/23/2005	9/27/2005	1/3/2006	3/22/2006	6/21/2006	9/20/2006	12/19/2006	4/11/2007
Sample Depth (ft)											23
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*										382
1,3,5-trimethylbenzene	5*										89.8
benzene	1										U
ethylbenzene	5*										111
isopropylbenzene	5*										37.4
n-butylbenzene	5*										38.2
n-propylbenzene	5*	Free Product	Free Product	Free Product	Free Product	Free Product	Free Product	Free Product	Free Product	Free Product	67.4
o-xylene	5*	Recovery	Recovery	0.03 ft	0.14 ft	0.01 ft	0.03 ft	0.25 ft	0.10 ft	0.06 ft	76.6
naphthalene	10	Ongoing	Ongoing								109
m,p,-xylene	5*										331
methyl tert-butyl ether	10										U
p-isopropyltoluene	5*										20.2
sec-butylbenzene	5*										23.7
t-butylbenzene	5*										U
toluene	5*										4.6
Total VOCs											1,290.9

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-83									
Sample ID											
Date of Collection		6/18/2007	9/18/2007	12/5/2007	3/24/2008	6/10/2008	9/9/2008	12/16/2008	3/23/2009	6/23/2009	9/9/2009
Sample Depth (ft)											
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	Free Product 0.04 ft	Free Product 0.10 ft	Free Product 0.02 ft	Free Product 0.06 ft	Free Product 0.01 ft	Free Product 0.5 ft	Free Product 0.32 ft	Free Product 0.06 ft	Free Product 0.01 ft	Free Product 0.03 ft
1,3,5-trimethylbenzene	5*										
benzene	1										
ethylbenzene	5*										
isopropylbenzene	5*										
n-butylbenzene	5*										
n-propylbenzene	5*										
o-xylene	5*										
naphthalene	10										
m,p,-xylene	5*										
methyl tert-butyl ether	10										
p-isopropyltoluene	5*										
sec-butylbenzene	5*										
t-butylbenzene	5*										
toluene	5*										
Total VOCs											

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-134									
Sample ID						789M134-23EA	789M134-24FA	789M134-24GA	789M134-23HA	789M134-24IA	789M134-24JA
Date of Collection		7/10/2002	10/3/2002	12/11/2002	4/8/2003	7/2/2003	9/23/2003	12/22/2003	4/8/2004	7/7/2004	9/24/2004
Sample Depth (ft)						23	24	24	23	24	24
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	789MW-134 was installed June 2003				U	U	U	U	U	U
1,3,5-trimethylbenzene	5*					U	U	U	U	U	U
benzene	1					U	U	U	U	U	U
ethylbenzene	5*					U	U	U	U	U	U
isopropylbenzene	5*					U	U	U	U	U	U
n-butylbenzene	5*					U	U	U	U	U	U
n-propylbenzene	5*					U	U	U	U	U	U
o-xylene	5*					U	U	U	U	U	U
naphthalene	10					U	U	U	U	U	U
m,p,-xylene	5*					U	U	U	U	U	U
methyl tert-butyl ether	10					U	U	U	U	U	27
p-isopropyltoluene	5*					U	U	U	U	U	U
sec-butylbenzene	5*					U	U	U	U	U	U
t-butylbenzene	5*					U	U	U	U	U	U
toluene	5*					U	U	U	U	U	U
Total VOCs						0	0	0	0	0	27

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-134								
Sample ID			789M134-25LA	789M134-25NA	789M134-24PA	789M134-24RA	789M134-23SA	789M134-22TA	789M134-23UA	789M134-24VA	789M134-22XA
Date of Collection		1/3/2005	4/7/2005	9/26/2005	3/22/2006	9/20/2006	12/19/2006	4/12/2007	6/18/2007	9/18/2007	3/24/2008
Sample Depth (ft)			25	25	24	24	23	22	23	24	22
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	Semi-Annual Sampling	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*		U	U	U	U	U	U	U	U	U
benzene	1		U	U	U	U	U	U	U	U	U
ethylbenzene	5*		U	U	U	U	U	U	U	U	U
isopropylbenzene	5*		U	U	U	U	U	U	U	U	U
n-butylbenzene	5*		U	U	U	U	U	U	U	U	U
n-propylbenzene	5*		U	U	U	U	U	U	U	U	U
o-xylene	5*		U	U	U	U	U	U	U	U	U
naphthalene	10		U	U	U	U	U	U	U	U	U
m,p,-xylene	5*		U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10		U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*		U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*		U	U	U	U	U	U	U	U	U
t-butylbenzene	5*		U	U	U	U	U	U	U	U	U
toluene	5*		U	U	U	U	U	U	U	U	U
Total VOCs			0	0	0	0	0	0	0	0	0

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789MW-134									
Sample ID		789M134-23ZA	789M134-23A2A								
Date of Collection		9/9/2008	3/23/2009								
Sample Depth (ft)		23	23								
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U								
1,3,5-trimethylbenzene	5*	U	U								
benzene	1	U	U								
ethylbenzene	5*	U	U								
isopropylbenzene	5*	U	U								
n-butylbenzene	5*	U	U								
n-propylbenzene	5*	U	U								
o-xylene	5*	U	U								
naphthalene	10	U	U								
m,p,-xylene	5*	U	U								
methyl tert-butyl ether	10	U	U								
p-isopropyltoluene	5*	U	U								
sec-butylbenzene	5*	U	U								
t-butylbenzene	5*	U	U								
toluene	5*	U	U								
Total VOCs		0	0								

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-1									
Sample ID		789VM01D 01SA	789VM01D 21TA	789VM01D 30UA	789VM01D 23VA	789VM01D 23WA	789VM01D 21XA	789VM01D 21YA	789VM01D 21ZA	789VM01D 22A1A	789VM01D 22A2A
Date of Collection		1/11/2007	4/12/2007	7/9/2007	9/18/2007	12/5/2007	3/24/2008	6/10/2008	9/9/2008	12/16/2008	3/23/2009
Sample Depth (ft)		1	21	30	23	23	21	21	21	22	22
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	0.14 F	U	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		0	0	0	0	0.14	0	0	0	0	0

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-1									
Sample ID		789VM01D 22A4A									
Date of Collection		9/10/2009									
Sample Depth (ft)		22									
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U									
1,3,5-trimethylbenzene	5*	U									
benzene	1	U									
ethylbenzene	5*	U									
isopropylbenzene	5*	U									
n-butylbenzene	5*	U									
n-propylbenzene	5*	U									
o-xylene	5*	U									
naphthalene	10	U									
m,p,-xylene	5*	U									
methyl tert-butyl ether	10	U									
p-isopropyltoluene	5*	U									
sec-butylbenzene	5*	U									
t-butylbenzene	5*	U									
toluene	5*	U									
Total VOCs		0									

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-2									
Sample ID		789VM02D 02SA	789VM02D 23TA	789VM02D 30UA	789VM02D 24VA	789VM02D 22WA	789VM02D 22XA	789VM02D 22YA	789VM02D 22ZA	789VM02D 23A1A	789VM02D 23A2A
Date of Collection		1/11/2007	4/12/2007	7/9/2007	9/18/2007	12/5/2007	3/24/2008	6/10/2008	9/9/2008	12/16/2008	3/23/2009
Sample Depth (ft)		2	23	30	24	22	22	22	22	23	23
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		0	0	0	0	0	0	0	0	0	0

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-2									
Sample ID		789VM02D 23A4A									
Date of Collection		9/10/2009									
Sample Depth (ft)		23									
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U									
1,3,5-trimethylbenzene	5*	U									
benzene	1	U									
ethylbenzene	5*	U									
isopropylbenzene	5*	U									
n-butylbenzene	5*	U									
n-propylbenzene	5*	U									
o-xylene	5*	U									
naphthalene	10	U									
m,p,-xylene	5*	U									
methyl tert-butyl ether	10	U									
p-isopropyltoluene	5*	U									
sec-butylbenzene	5*	U									
t-butylbenzene	5*	U									
toluene	5*	U									
Total VOCs		0									

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-3									
Sample ID		789VM03D 03SA	789VM03D 22TA	789VM03D 22UA	789VM03D 23VA	789VM03D 23WA	789VM03D 21XA	789VM03D 21YA	789VM03D 26ZA	789VM03D 22A1A	789VM03D 22A2A
Date of Collection		1/11/2007	4/12/2007	6/18/2007	9/18/2007	12/5/2007	3/25/2008	6/10/2008	9/9/2008	12/16/2008	3/23/2009
Sample Depth (ft)		3	22	22	23	23	21	21	26	22	23
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U	0.75 F	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5*	U	0.35 F	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5*	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5*	U	U	U	U	U	U	U	U	U	U
o-xylene	5*	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	U	U	U	U	U	U	U	U	U
m,p,-xylene	5*	U	U	U	U	U	U	U	U	U	U
methyl tert-butyl ether	10	U	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5*	U	0.32 F	U	U	U	U	U	U	U	U
sec-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5*	U	U	U	U	U	U	U	U	U	U
toluene	5*	U	U	U	U	U	U	U	U	U	U
Total VOCs		0	1.42	0	0	0	0	0	0	0	0

For notes, please refer to the beginning of Appendix A.

Building 789
Groundwater Sampling Results

Sample Location	GW Standards (µg/L)	789VMP-3									
Sample ID		789VM03D 22A4A									
Date of Collection		9/10/2009									
Sample Depth (ft)		22									
VOCs (µg/L)											
1,2,4-trimethylbenzene	5*	U									
1,3,5-trimethylbenzene	5*	U									
benzene	1	U									
ethylbenzene	5*	U									
isopropylbenzene	5*	U									
n-butylbenzene	5*	U									
n-propylbenzene	5*	U									
o-xylene	5*	U									
naphthalene	10	U									
m,p,-xylene	5*	U									
methyl tert-butyl ether	10	U									
p-isopropyltoluene	5*	U									
sec-butylbenzene	5*	U									
t-butylbenzene	5*	U									
toluene	5*	U									
Total VOCs		0									

For notes, please refer to the beginning of Appendix A.