Remedial Investigation and Interim Remedial Action Report

PSEG Nuclear, LLC
Salem Generating Station
Hancock's Bridge, New Jersey

Incident No. 04-08-02-2350-16

June 2005

PREPARED FOR

PSEG Services Corporation
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Our Ref:
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Date:
June 2005

Table of Contents

Table of Contents

Tables

Figures

Appendices

Table of Contents

1 Introduction

ARCADIS, on behalf of PSEG Services Corporation (PSEG), has prepared this Remedial Investigation (RI) and Interim Remedial Action Report (RAR) to present the details and results of soil and groundwater investigation activities conducted in association with the release of diesel fuel (Incident Number 04-08-02-2350-16) at the PSEG Nuclear, LLC Salem Generating Station (the Station). The Site is located on Artificial Island in Lower Alloways Creek Township, Salem County, New Jersey. The Station location and layout are depicted on **Figures 1** and **2**, respectively. The remedial investigation was conducted in accordance with the Remedial Investigation Work Plan (RIWP) that was submitted to the New Jersey Department of Environmental Protection (NJDEP) in January 2005. The scope of work outlined in the RIWP was designed to investigate the extent of diesel fuel constituents in the shallow, water-bearing unit at the Station.

This report has been prepared in accordance with New Jersey Administrative Code (N.J.A.C.) Chapter 26E - Technical Requirements for Site Remediation (Technical Requirements).

1.1 Project Background

On August 2, 2004, PSEG personnel observed a diesel fuel odor in a catch basin associated with the stormwater collection system just to the south of the Salem Unit 1 Fuel Handling Building. Investigation of the catch basin, which is identified as "Catch Basin 27" on **Figure 2**, revealed the presence of a red-dyed diesel fuel (the red-dye is more typical of a recent release of diesel fuel). At this time, PSEG notified the NJDEP through its spill hotline.

To prevent the migration of diesel fuel within the stormwater collection system, the storm drains upstream and downstream of Catch Basin 27 were temporarily blocked to isolate the affected section of piping. Further, a cover was placed over Catch Basin 27 to prevent rain water from entering. Investigations of the remainder of the stormwater system indicated that the diesel fuel had not migrated beyond Catch Basin 27, no diesel fuel was released to the Delaware River, and the diesel fuel in the catch basin was removed.

Investigations into the source of the diesel fuel focused on the underground piping adjacent to Catch Basin 27 that supplies diesel fuel from the bulk storage tanks to diesel/generator storage tanks located within the Auxiliary Building and to the service water and circulating water boilers. The location of the underground piping is shown on **Figure 2**. PSEG performed a pressure test on this underground piping. The results revealed the leak was in an approximate 300-foot section of the piping extending south from the Auxiliary Building. To pinpoint the location of the leak along this 300-foot section of piping, PSEG subcontracted Praxair Services, Inc. to perform a "Tracer Tight" gas analysis. The results of this test showed that the location of the leak was directly adjacent to Catch Basin 27.

The results of the Tracer Tight gas analysis indicated that there were no other leaks along the 300-foot section of piping.

Excavation in the area of the leaking underground piping was initiated on August 23, 2004 by PSEG with the support of Clean Harbors, Inc. to repair the piping. During the excavation process, residual diesel fuel was observed on soil excavated from below the piping (approximately six feet below ground surface (bgs)). Soil excavated from the piping area was stockpiled by PSEG pending waste characterization. Following characterization, the soil was disposed of by Clean Harbors. The soil disposal manifests are included as **Appendix A**. Separate-phase diesel fuel was observed on standing water within the excavation. Prior to backfilling, approximately 150 gallons of diesel fuel were recovered from the excavation. Disposal manifests for the diesel fuel are also included in **Appendix A**.

In November 2004, PSEG initiated remedial investigation and interim product recovery actions. In accordance with the scope of work presented within the RIWP, soil borings were advanced at locations downgradient of the source area to delineate the horizontal extent of diesel related constituents of concern in soil. The soil borings were converted to monitoring/product recovery wells to facilitate the collection of groundwater samples and for the recovery of separate-phase diesel, if present. Interim remedial actions completed to date include the installation of a Spill Buster® Product Recovery System, a passive product skimmer, and the use of absorbent socks. The sections of this report present relevant facility information, the details and results of the soil and groundwater investigation activities completed to date, and the details and results of product recovery efforts completed to date. These sections are followed by conclusions and proposed investigation and product recovery activities.

1.2 Report Organization

This report contains eleven sections including this introduction:

- Section 2 – Station History;
- Section 3 – Station Setting;
- Section 4 - Facility Construction Details and Local Geology and Hydrogeology;
- Section 5 – Remedial Investigation;
- Section 6 – Interim Remedial Actions;
- Section 7 – Baseline Ecological Evaluation;
- Section 8 – Conclusions
- Section 9 – Proposed Actions;

- Section 10 – Request for Variance; and,
- Section 11 - References

The Station History Section (Section 2) provides an overview of the operating history of the Station and applicable regulations governing these operations;

The Station Setting section (Section 3) provides a detailed description of the environmental setting of the Station including topography, surface water features, climate, soil, and regional geology and hydrogeology;

The Facility Construction Details and Local Geology and Hydrogeology section (Section 4) provides a detailed description of the construction of the facility and the resulting influence on local geology and hydrogeology;

The Remedial Investigation section (Section 5) provides the details and results of soil and groundwater investigation activities completed to date;

The Interim Remedial Action section (Section 6) presents the details of interim remedial actions completed to date:

The Baseline Ecological Evaluation section (Section 7) provides the details and results of a baseline ecological evaluation conducted in accordance with N.J.A.C. 7:26E-3.11;

The Conclusions section (Section 8) presents a summary of the findings of the remedial investigation; and,

The Proposed Actions section (Section 9) presents recommendations for further actions based on the investigation findings;

The Request for Variance section (Section 10) presents a request for variance from the Technical Requirements for Site Remediation (N.J.A.C. 7:26E); and,

The References section (Section 11) provides publications referenced during the preparation of this report.

2 Station History

The following sections provide relevant site information regarding the facility's operating history and a review of applicable regulations relating to operations at the Station.

2.1 Operating History

PSEG Nuclear LLC operates and is part owner of the Salem Generating Station located on Artificial Island in Lower Alloways Creek Township, Salem County, New Jersey. PSEG Nuclear LLC (57.41%) and Exelon (42.59%) jointly own the Salem Generating Station. The Salem Generating Station is situated adjacent to the Hope Creek Generating Station, also located on Artificial Island. Both the Salem and Hope Creek Generating Stations (the Stations) are located on the eastern bank of the Delaware River. The Salem Generating Station encompasses an approximate 26-acre portion of Artificial Island.

The Salem Generating Station is composed of two nuclear generating units (Units 1 and 2) and one distillate oil fueled combustion turbine unit (Unit 3). Commercial operations of Units 1 and 2 commenced in 1976 and 1981, respectively. The combustion turbine unit commenced operations in 1972. The nuclear generating units operate as base load units and the combustion turbine unit operates as a peaking unit. The Salem Generating Station has a combined generating capacity of approximately 2,400 MW. Over its operational life, the Salem Generating Station has experienced no significant changes in its operation.

2.2 Regulatory Review

Regulatory oversight for the Salem Generating Station, and other nuclear generating stations, is provided by both federal and state agencies. These agencies ensure that the stations are designed, constructed, licensed and operate in a matter that maximizes the safe containment and management of radioactive materials. These agencies also ensure that sufficient funding mechanisms have been established, are adequately funded, and will be available to decommission the nuclear generating stations at the end of their life cycle.

On the federal and state levels, the United States Nuclear Regulatory Commission (USNRC) and the New Jersey Department of Environmental Protection Bureau of Nuclear Engineering (NJDEP-BNE) conduct licensing and oversight of the Station. Oversight by the NJDEP-BNE and USNRC includes periodic inspections and conducting environmental radiological monitoring.

3 Station Setting

The following sections provide information regarding the environmental setting of the Salem Generating Station, including land use, the environmental setting, precipitation and drainage, local geology and local hydrogeology.

3.1 Land Use

PSEG Nuclear LLC owns and/or controls an approximately 740-acre area of Artificial Island that is situated adjacent to and surrounds the Salem and Hope Creek Generating Stations. This area contains administrative and support facilities used by the Stations, the Hope Creek Switch Yard, the Salem Switch Yard, and undeveloped vacant land. With the exception of the Salem Generating Stations (Units 1 through 3) and the Salem Switchyard, the remaining acreage is considered to be the Hope Creek Generating Station.

The zoning classification for the Salem Generating Station is industrial. The land adjacent to the Salem Generating Station is zoned for industrial and residential or agricultural use.

3.2 Environmental Setting

The Salem Generating Station is located on a portion of Artificial Island that borders the Delaware Estuary. The Estuary, in the location of the Salem Generating Station, is a tidal, brackish river, located in an area designated as Zone 5 by the Delaware River Basin Commission.

The United States Army Corps of Engineers, beginning in the early twentieth century, created Artificial Island by depositing hydraulic dredging spoils within a diked area established around a natural sand bar that projected into the Delaware River. Prior to construction of the Salem Generating Station, the property was vacant, undeveloped, low-lying land.

3.3 Topography and Station Drainage

The topography at the Salem Generating Station is relatively flat with limited local relief. Topographic contours for the Station are included on **Figure 2**. Stormwater is managed in accordance with the Salem Generating Station New Jersey Pollution Discharge Elimination System (NJPDES) permit and Stormwater Pollution Prevention Plan. Stormwater is collected in storm drains and routed to the Delaware River for discharge. Stormwater from the major petroleum storage and handling areas is routed to the oil/water separator prior to discharge.

3.4 Climate and Precipitation

Salem County is located in southwestern New Jersey. The county's climate is considered to be humid and temperate, as the climate in this county is readily influenced by its proximity to the Delaware Bay. Coastal storms are not uncommon in this region and can produce high winds and heavy rainfall, which can cause wind damage and flooding in low-lying areas.

Wind direction in this region is dependent upon the season; during the summer, winds are typically from the southwest while during the winter winds are commonly from the northwest. Temperatures vary by season and the maximum expected high temperature for a given year is 96 degrees Fahrenheit, while the minimum expected yearly low temperature is minus 2 degrees Fahrenheit. The average annual precipitation total is 39.9 inches.

3.5 Regional Geology

The Station is located in the Atlantic Coastal Plain Physiographic Province. This area is characterized by relatively flat to gently undulating terrain, underlain by unconsolidated sediments that increase in thickness to the southeast. These sediments range in age from Holocene to Cretaceous (0 to 146 million years old), are primarily comprised of clay, silt, sand, and gravel, and are generally classified as continental, coastal, or marine in nature. Published geologic mapping indicates that the basement rock beneath these sediments (in the area of the Station) is metamorphic schist of the Wissahickon Formation, which is Pre-Cambrian in age (570 to 900 million years old).

The unconsolidated overburden at the Salem and Hope Creek Generating Stations consists of approximately 25 to 40 feet of dredge spoils, engineered fill material (cofferdam), tidal marsh deposits and riverbed deposits. The engineered fill, composed mainly of silt, silty clay, sand, and gravel, replaced the dredge spoils within the cofferdam during the construction of the Station. Due to the composition and nature of the engineered fill, the hydraulic conductivity of this material is very low, thus limiting the extent and rate of groundwater movement. Below the engineered fill there is an approximate five-foot layer of tidal marsh deposits consisting of silty peat and organic silt and meadow mat. The tidal marsh deposits are semi-confining. Beneath the tidal marsh deposits are approximately ten feet of discontinuous Quaternary Age riverbed deposits consisting of sand and gravel. The engineered fill, the tidal marsh deposits and the riverbed deposits, combine to form the water table aquifer (see Section 3.6). Beneath the surface water aquifer, in order of increasing depth, are the following geologic formations:

Clay, Confining Unit – Beneath the shallow, riverbed and other deposits is a clay, confining unit that separates the shallow unit from the deeper Vincentown Formation. Conflicting geologic reports suggest that the clay, confining unit is either the Miocene Kirkwood Formation or the Pleistocene Van Sciver Lake Bed deposits (USGS 1979 and 1999). Previous investigations conducted at the facility indicate that the clay, confining unit is laterally extensive beneath the Station.

Vincentown Formation – The Vincentown Formation occurs from a depth of approximately 55 feet bgs to a depth of 135 feet bgs and consists of a competent, greenish-gray, fine to medium sand with some silt, shell fragments, feldspar and glauconite.

Hornerstown Formation – The Hornerstown Formation is a highly glauconitic, clayey, dark green sand that contains small percentages of quartz grains and apatite pellets. The Hornerstown Formation unconformably overlies the Navesink Formation and is unconformably overlain by the Vincentown Formation. The Hornerstown Formation occurs from approximately 135 to 145 feet bgs.

Navesink Formation – The Navesink Formation is characteristically a glauconitic sand with varying amounts of silt and clay. It is brown or dark green to blue-black and has a shell bed at its base. The upper part of the formation is less glauconitic, more clayey, more micaceous, and lighter in color. The Navesink Formation conformably overlies the Mount Laurel Sand (USGS 1969). The contact with the overlying Hornerstown Formation is gradational. The Navesink Formation is encountered from approximately 145 to 170 feet bgs.

Mount Laurel-Wenonah Formation – The Mount Laurel-Wenonah Formation consists of a clayey, medium-grained sand with some gravel, feldspar and glauconite. In the vicinity of the Station, the Mount Laurel-Wenonah Formation is approximately 100 hundred feet thick and occurs from 170 to 270 feet bgs.

Beneath the Mount Laurel-Wenonah Formation, more than 1,000 feet of Upper Cretaceous sediments overlie the crystalline bedrock. The Upper Cretaceous sediments include in descending order: the Marshalltown Formation (gray, fine sand); the Englishtown Formation (yellow-brown, fine sand); the Woodbury Clay (dark gray, stiff, silty clay); the Merchantville Formation (dark green clay); the Magothy Formation (coarse to fine silt with little fine sand); and the Raritan and Potomac Formations (interbedded sand, gravelly sand and clay).

3.6 Regional Hydrogeology

There are four primary water bearing formations (aquifers) underlying the Station: 1) the shallow, water-bearing unit; 2) the Vincentown Formation; 3) the Mount Laurel-Wenonah Formations; and, 4) the Potomac-Raritan-Magothy Formations. The shallow, water-bearing unit, which consists of the dredge spoils, engineered fill, tidal marsh deposits and the discontinuous Quaternary riverbed deposits, occurs between approximately 10 to 40 feet bgs. In general, the dredge spoils, engineered fill and tidal marsh deposits are characterized by low permeability. Occasional lenses of sand within the dredge spoils may contain perched water within a few feet of the ground surface. The groundwater in the water table aquifer is generally brackish, with flow to the southeast and a gradient of approximately 0.007 feet/feet.

A clay, confining unit identified as either the Miocene Kirkwood Formation or the Pleistocene Van Sciver Lake Bed deposits separates the shallow, water-bearing unit from

the deeper Vincentown Formation. As stated previously, investigations conducted at the facility indicate that the clay, confining unit is laterally extensive beneath the Station.

The Vincentown Formation, which occurs from approximately 55 to 135 feet bgs, is a semi-confined to confined aquifer under artesian conditions. Groundwater in the Vincentown Formation generally flows from north to south with a gradient of approximately 0.003 feet/feet. Regionally, the Vincentown Formation is a water-producing aquifer, which supplies potable water to domestic wells in Salem County. Groundwater in the aquifer is moderately hard with high iron content. Saltwater-intrusions occur near the Delaware River, where water quality is brackish and non-potable.

The Hornerstown and Navesink confining units separate the Vincentown Formation from the Mount Laurel-Wenonah Formations. The Mount Laurel-Wenonah Formations occur from approximately 135 to 170 feet bgs. The Station has two potable and fire-water supply wells screened in this formation.

The deepest of the water bearing formations is the Potomac-Raritan-Magothy Formation. In Salem County, the Potomac-Raritan-Magothy Formation occurs at depths in excess of 500 feet bgs. This is the primary water producing aquifer for New Jersey. Four potable and fire-water supply wells at the Station are screened in the Potomac-Raritan-Magothy Formation at depths ranging from 800 to 1,100 feet bgs. The Potomac-Raritan-Magothy Formation is bounded by the Merchantville Formation above and below by the Wissahickon Schist basement rock. The crystalline basement rock of the Wissahickon Schist is not considered a productive aquifer and only locally transmits water from secondary porosity (i.e., fractures and faults).

4 Facility Construction Details and Local Geology and Hydrogeology

The construction of the Salem Generating Station has caused significant changes to the local geology and hydrogeology. Within the footprint of the cofferdam surrounding Units 1 and 2 (see Figure 2), the majority of original Artificial Island materials were removed to a depth of 70 feet bgs. The following sections, which contain information presented in a Remedial Investigation Report (RIR) previously prepared for a separate investigation conducted at the Station (ARCADIS 2004), describe the conditions at Artificial Island prior to the construction of the Station, and detail how the construction of the Station has altered the local geology.

4.1 Pre-Facility Construction

The Station is located on the southern tip of what was once a natural sand bar projecting into the Delaware River. The area between the sand bar and the mainland had been used as

a dredge spoil deposit area. In 1899, a timber sheetpile wall was installed around the perimeter of the sand bar. Over the next 50 or so years the area was used as a spoil deposit area for material collected during the dredging of the Delaware River. Riprap was added to the perimeter when the timbers began to degrade. The area landward of Artificial Island has remained a tidal marsh.

4.2 Facility Construction

The construction of the Station has resulted in significant changes to the local geology. It was necessary to remove and rework much of the soil in the area of the Station in order to facilitate construction. For the purposes of this report, the description of the facility construction is limited to the area within the cofferdam; however, it should be noted that the local geology beyond the limits of the cofferdam was also significantly modified. The extent of the cofferdam is shown on **Figure 2**.

The cellular cofferdam, which encircled the excavation for all the Class I structures (e.g., containment, fuel handling, and auxiliary buildings), was constructed of interlocking sheet piling driven from an approximate depth of 23 feet below existing grade (approximately 77 feet plant datum [PD] or -12.92 feet above mean sea level [amsl NAVD 1988]). The cofferdam consists of 24 circular cells, approximately 60.5 feet in diameter with connecting arcs, that were advanced from this depth to approximately 10 feet into the Vincentown Formation to an elevation of 17 feet PD (-72.92 feet amsl). The cofferdam sections are of two different heights, 50 feet and 60 feet. The elevation of the top of the cofferdam is 77 feet PD (-12.92 feet amsl) on the north, south and west sides. The elevation of the eastern side is 67 feet PD (-22.92 feet amsl) providing access and a foundation for the return circulating water pipes and associated thrust block.

The inside area of the cofferdam sections were excavated to elevation 27 feet PD (-62.92 feet amsl). A vertical steel wall was added inside each individual cofferdam section to divide the sections approximately in half. The inner half of the individual cofferdam sections, or the section facing the building foundations, was then filled to the top with lean concrete. The area contained by the entire cofferdam structure was then excavated to the Vincentown Formation for placement of a lean concrete mat that served as the foundation for the construction of the structures within the cofferdam. During this stage of the excavation, qualified personnel visually inspected the bottom of the excavation to verify that the excavation had reached the top of the Vincentown Formation prior to placing any lean concrete.

Prior to the completion of the excavation, at approximately elevation 45 feet PD (-44.92 feet amsl), 15 exploratory borings were drilled through the remaining Kirkwood Formation and into the underlying Vincentown to verify the depth to the formation. These additional borings showed no measurable differences from the study borings.

Based on a review of available documents, the top of the Vincentown Formation in the area of the cofferdam ranges between 27 and 30 feet PD (-62.92 to –65.92 feet amsl).

When the surface of the Vincentown Formation was reached, the area was cleared of loose soil and lean concrete was poured directly onto the exposed Vincentown Formation. The station construction drawings indicate that the base of the first lean concrete pour was at 30 feet PD (-59.92).

The cofferdam serves as a basin in which the Class I structures were constructed. Prior to construction of the primary structures, a lean concrete mat ranging in thickness from 5 to 50 feet was placed on top of the Vincentown Formation for support of the structures. Following placement of the lean concrete, the Auxiliary Building, Fuel Handling Buildings and Reactor Containment Buildings were constructed. The remainder of the excavation within the cofferdam was then backfilled with structural fill meeting the design specifications of the Station.

4.3 Local Geology and Hydrogeology

The soils removed from within the cofferdam were not used to backfill the completed structure because the hydraulically placed fill and other riverbed deposits underlying Artificial Island did not meet the building design specifications for the Station. Therefore, it was necessary to import construction or structural fill to build the facility. The structural fill was placed between and around the Auxiliary Building, Fuel Handling Buildings, Units 1 and 2, portions of the cofferdam, above the return circulating water pipes, and from the top of the clay, confining-unit to the land surface in the portions of the area between the cofferdam and the circulating water discharge pipes.

The structural fill used at the station was obtained from a number of sources in New Jersey and Delaware. One fill source used in the area of this investigation was the Hinchner Pit. While the location of the borrow source was not identified, the material was described as yellowish-brown fine to medium sand with a trace of silt and clay.

Details of groundwater investigation activities historically completed at the facility indicate that groundwater elevations in the shallow, water-bearing unit within the limits of the cofferdam are generally higher than those outside the limits of the cofferdam. This is expected considering permeability differences that exist between the structural fill within the limits of the cofferdam and the hydraulic fill beyond the limits of the cofferdam, resulting in a groundwater mound. Due to the mound, groundwater flows radially outward from the cofferdam. The observed mounding effect dissipates quickly. A groundwater elevation contour map for the shallow, water-bearing unit under ambient (i.e., non-pumping) conditions is presented on **Figure 3** (ARCADIS 2004). The groundwater elevation contour map was prepared using water level measurements obtained during a

previously completed and unrelated investigation at the facility. Beyond the limits of the cofferdam, groundwater flow is generally from the center of the island (northeast of the Salem Generating Station) towards the Delaware River.

Facility construction details and local geology are highlighted on cross section diagrams through various Station features (**Figures 4** and **5**). The cross sections provide details obtained during the remedial investigation, which are discussed in the following sections.

5 Remedial Investigation

As presented in the RIWP, the remedial investigation conducted in association with the diesel release had the following four primary goals: 1) to characterize the vertical and horizontal extent of diesel-related constituents in soil; 2) to determine if separate-phase diesel fuel was present on the water table and to what extent; 3) to characterize the extent of dissolved-phase diesel-related constituents in groundwater downgradient of the release area; and, 4) to determine the need for further action. The scope of work developed to achieve these objectives included the advancement of four soil borings at various locations downgradient of the source of the diesel release for collecting soil samples, the installation of five monitoring wells, and the monitoring of water/product levels and the collection of groundwater samples from six monitoring wells (the five recently installed monitoring wells and one existing monitoring well. The following sections provide the details and results of these investigation activities.

5.1 Soil Investigation

Soil investigation activities were completed between November 8th and 9th 2004 and consisted of the advancement of four soil borings (Borings D-2 through D-5) for the collection of soil samples. The locations of the soil borings relative to the source of the diesel release are identified on **Figure 6**. Due to the presence of diesel-fuel oil, soil samples were not taken from the source area soil boring (D-1). Prior to initiating soil sampling activities, a water level measurement was obtained from Well X, located adjacent to the northwest corner of the Fuel Handling Building (see **Figure 6**) to determine the appropriate depth for sample collection. Soil samples were obtained from the borings at a depth of six inches above the water table as measured in Well X. A second sample was obtained from Soil Boring D-4 to evaluate the vertical distribution of diesel related constituents of concern in soil.

Due to the extensive, facility-critical infrastructure within the area of investigation, both the boring locations and advancement methods were limited. Soil Borings D-2 through D-5, advanced at accessible locations beyond the source area of the diesel release to the south and west, were advanced using vacuum excavation equipment to ensure that, if encountered, subsurface infrastructure would not be damaged. Soil samples were obtained

from each boring ahead of the vacuum excavation using a hand auger. The soil samples were submitted to Accutest Laboratories, of Dayton, New Jersey, and were analyzed for total petroleum hydrocarbons (TPHC). In accordance with N.J.A.C. 7:26E-2.1(d), soil samples were also placed on hold for volatile organic compounds (VOCs) analysis pending the TPHC results. Based on the results of the TPHC analysis, which are summarized in **Table 1**, analysis for VOCs was not required per N.J.A.C 7:26E-2.1(d). Copies of the laboratory reports and the associated HazSite deliverables for the soil samples are included in **Appendix B**. Further details regarding the analytical results are as follows:

- Analytical results of the soil samples submitted for TPHC analysis did not indicate concentrations above laboratory detection limits. The method detection limits ranged from 26 to 32 milligrams per kilogram (mg/kg).

- Results of the soil investigation indicate that the release of diesel fuel has not migrated a significant distance beyond the source area and that diesel related constituents of concern in soil are likely limited to the source area and the "smear-zone" where separate phase diesel has migrated. The estimated extent to which separate-phase diesel has migrated is shown on **Figure 8**. Locations for advancing soil borings are limited due to the presence of extensive subsurface infrastructure. Due to these limitations, the extent of diesel-related constituents of concern in soil can not be further refined.

5.2 Groundwater Investigation

The investigation of groundwater consisted of the installation of five monitoring wells within and downgradient of the source area to evaluate the extent of dissolved-phase and separate-phase diesel. Following installation, product gauging and groundwater sampling were initiated, including the gauging and sampling of six monitoring wells (the five newly installed wells, and one previously existing monitoring well). The following sections provide a summary of the groundwater investigation details and results.

5.2.1 Monitoring Well Installation

Five groundwater monitoring wells (Well AU, Well AV, Well AW, Well AY, and Well AZ) were installed between November 8 and 9, 2004. The five monitoring wells were installed using vacuum excavation techniques due to the extensive subsurface utilities and/or infrastructure described in the previous section. The locations and well construction details of the groundwater monitoring wells are shown on **Figure 3** and are summarized in **Table 2**, respectively. NJDEP Bureau of Water Allocation Monitoring Well Records, well construction logs, and boring logs are included in **Appendix C**. The purposes for the monitoring wells are as follows:

- Well AU was installed within a temporary PVC sleeve that was placed within the excavation opened to expose the underground piping prior to backfilling. Due to the presence of extensive subsurface infrastructure encountered during the excavation, Well AU could not be installed beyond a depth of approximately seven feet below ground surface (bgs). Separate-phase diesel fuel was observed within the open excavation prior to backfilling and in Well AU after installation was completed. The primary purpose of Well AU has been to facilitate product recovery using the Spill Buster® active product recovery unit. Details regarding these product recovery efforts are presented in Section 6;

- Monitoring Wells AV and AW were installed at the locations of Soil Borings D-3 and D-2, respectively. Using vacuum excavation equipment, the boreholes of D-2 and D-3 were advanced to approximately ten feet bgs and the monitoring wells were installed within the borehole. Wells AV and AW were installed to delineate the extent of separate-phase diesel fuel downgradient of the source area based on knowledge of groundwater flow direction obtained from previously completed and unrelated investigations. Following installation, separate-phase diesel fuel was detected in Well AW. In response, a passive skimmer product recovery setup was installed within Well AW. Details regarding the product recovery efforts for this well are presented in Section 6;

- Monitoring Wells AY and AZ were installed at the locations of Soil Borings D-4 and D-5, respectively. Using vacuum excavation equipment, the boreholes of D-4 and D-5 were advanced to approximately ten feet bgs and the monitoring wells were installed within the borehole. These wells were installed to delineate the extent of dissolved-phase diesel constituents in groundwater downgradient of the source area.

Monitoring Well AU was designed for use as a product recovery well and is constructed of six-inch diameter Schedule 40 PVC well screen and riser. Well AV, Well AW, Well AY, and Well AZ were constructed of 4-inch diameter Schedule 40 PVC well screen and riser. A sand filter pack was placed in the annular space around the screen interval followed by an appropriate bentonite seal and grouting material. Well AU was completed at ground surface with a two-foot square flush-grade well vault to facilitate the installation of the Spill Buster® unit. Well AV, Well AW, Well AY, and Well AZ were completed with 12-inch round flush-grade manways.

A summary of the well completion details (i.e., total depth, screened interval) is presented in **Table 2**. The total depth and screen interval for the monitoring wells were field-constructed based on the facility-related subsurface infrastructure observed at each location. Therefore, well construction details varied slightly from the specifications presented in the RIWP. In accordance with N.J.A.C. 7:26E-4.4(g) [8], the proposed monitoring wells were

developed to yield a non-turbid discharge following installation. The monitoring wells were developed using a combination of surging and pumping techniques. In the instances where separate-phase diesel fuel was observed following installation (Wells AU and AW), product was removed from the well using a disposable bailer prior to development. In accordance with N.J.A.C. 7:26E-4.4(g) [7], the Station monitoring wells were surveyed by a New Jersey-licensed surveyor. Monitoring Well Certification Form Bs are provided in **Appendix D.**

5.2.2 Groundwater Monitoring

Following the installation of the wells, quarterly groundwater monitoring was initiated with events completed in December 2004 and March 2005. Quarterly groundwater monitoring events consist of the gauging of water levels and separate-phase product and the collection and analysis of groundwater samples from Well AV, Well AW, Well AY, Well AZ, and Well X. The following sections provide details regarding these activities.

5.2.2.1 Water Level and Separate-Phase Product Measurements

Prior to the initiation of groundwater sampling activities, water-level and separate phase product measurements were obtained from each monitoring well. Water-level and separate phase product measurements were also collected during routine maintenance of the Spill Buster® unit and the other product recovery methods discussed in Section 6. A summary of the product gauging and groundwater elevation data is presented in **Table 3**.

With the exception of a one time detection of product in Well AZ, measurable product is limited to the area of Well AU and downgradient towards Well AW. On February 16, 2005, PSEG initiated the operation of a groundwater extraction system associated with an ongoing and unrelated groundwater remediation. The groundwater extraction system includes the use of Well AO located approximately five feet to the east of Well AZ. The location of Well AO, as well as groundwater elevation contours observed on March 23, 2005 during the operation of the groundwater extraction system, is shown on **Figure 7**. Due to the operation of the groundwater extraction system and the resulting groundwater elevation contours, separate-phase product migrated in the direction of Well AO and 0.09 feet of product was observed in Well AZ. Immediately (i.e., same day) following the detection of separate-phase product in Well AZ, the operation of the groundwater extraction pump in Well AO ceased. An organophilic adsorbent sock was placed in Well AZ to recover any accumulated product. Since pumping from Well AO was ceased, separate-phase product has not been detected in Well AZ. Sorbent socks have been deployed in Well AZ to recover any residual product that may still be present.

The extent to which product has migrated to date has been controlled by the subsurface infrastructure located within the investigation area. As shown on the facility cross sections

(**Figures 4** and **5**), the foundation for the primary water storage tank located to the west of Well AU has limited the migration of separate phase product in this direction. Conversely, the service water piping that runs to the south from Well AU and the source area likely provided a preferential pathway for the migration of separate phase product towards Well AW. With the repair of the diesel fuel underground piping, the ongoing product recovery efforts being conducted in Well AU and Well AW will control further migration of product. Separate phase product measurements obtained from Well AY, located to the south and downgradient of Well AW along the service water pipes, provide delineation of the extent of separate phase product.

5.2.2.2 Monitoring Well Sampling

Depth-to-water and separate-phase product thickness measurements were collected using an electronic oil/water interface probe prior to initiating sampling activities. Groundwater samples were only collected from monitoring wells that did not indicate a measurable thickness (i.e., greater than 0.01 feet) of separate-phase product. Well AU and Well AW were not sampled during either sampling event due to the presence of separate phase product in these wells. In accordance with the Station's operating permit, a grab groundwater sample was also collected from wells being sampled prior to initiating sampling activities for radionuclide screening, which is required prior to releasing the samples from the facility for offsite analysis. Based on the results of the radionuclide screening the groundwater sample from Well AZ was not submitted for laboratory analysis during the March 2005 event. On April 18, 2005, ARCADIS personnel returned to the Site in an effort to obtain a groundwater sample from Well AZ for laboratory analysis and again the sample could not be released from the facility based on the results of the radionuclide screening.

Due to the sensitive nature of the analytes being monitored and to ensure the quality of the groundwater data, groundwater samples were collected utilizing the low-flow sampling methodology. Sample collection procedures, as well as quality control/quality assurance (QA/QC) sampling requirements, were outlined in the RIWP. The groundwater biogeochemical parameters and sampling logs are included in **Table 4** and **Appendix E**, respectively. Groundwater samples were submitted to Accutest Laboratories of Dayton, New Jersey. The groundwater samples were analyzed for priority pollutant list semi-volatile organics (SVOCs) and VOCs including a library search. The laboratory report and HazSite deliverables for the groundwater monitoring events are included as **Appendix F**. The analytical results for the groundwater samples taken in December 2004 and March 2005 are summarized in **Tables 5** and **6**, and indicate the following:

- The analytical results of the groundwater samples collected during the December 2004 and March 2005 sampling events indicated that concentrations of diesel

related constituents of concern (both VOC and SVOC) were below the New Jersey Groundwater Quality Criteria for Class IIA aquifers (GWQC).

- Of the VOCs, only tetrachloroethene was detected above the laboratory detection limit. The groundwater sample collected from Well X in December 2004 indicated a tetrachloroethene concentration of 0.87 µg/l (micrograms per liter, equivalent to parts per billion), which is below the GWQC for tetrachloroethene (1 µg/L). Tetrachloroethene was below the laboratory detection limit in the groundwater sample collected from Well X in March 2005. The detection of tetrachloroethene in Well X appears to be an anomaly and may have been a result of laboratory contamination.

- With the exception of the groundwater samples collected from Well AV, which is located to the east of the service water pipes, the SVOC constituents were below laboratory detection limits. Analytical results of the groundwater samples collected from Well AV indicated concentrations of the following SVOCs above laboratory detection limits but below their respective GWQC: acenaphthalene, carbozole, fluorine, 2-methylnaphthalene, naphthalene, and phenanthrene. The detection of these constituents is consistent with a diesel release.

6 Interim Remedial Actions

The extent of product observed to date has been limited to Well AU, installed within the source area, and Well AW, installed immediately downgradient of the source area along the service water piping. Separate phase product was detected during a single gauging event in Well AZ and migrated to this area under the influence of pumping in Well AO. Product recovery efforts completed to date have included the installation of the Spill Buster® active product recovery system in Well AU and Well AW at different times, the installation and operation of a passive skimmer in Well AW, and the installation of sorbent socks within Well AZ. The following sections provide the details and results of product recovery efforts completed to date.

6.1 Product Recovery Details

Following installation of the monitoring wells, water-level and product gauging activities were initiated to evaluate the extent of separate phase product in the subsurface and to evaluate product recovery methods. As presented in the RIWP, a Spill Buster® unit was installed in the source area well (Well AU) to facilitate product recovery. The Spill Buster® system is designed to remove only product (i.e., no water) with a down-well conductivity sensor and pump apparatus, an adjustable depth, wellhead auto-seek unit, and integrated control panel. Recovered product is conveyed to a nearby storage tank that is equipped with a high-level auto shut-off interfaced with the Spill Buster® control panel.

Based on the initial water-level and separate phase product measurements, the Spill Buster® unit, was instead installed in Well AW due to the greater apparent thickness of separate-phase product. The Spill Buster® unit was installed on December 22, 2004 and product recovery efforts were initiated. Following the initial startup of the Spill Buster® unit, product recovery rates were monitored and it became apparent that, although Well AW indicated a greater product thickness, the recovery rate of product from this well (less than 0.25 gallons per day) was limited. On January 17, 2005, the Spill Buster® unit was transferred to Well AU. Operation of the Spill Buster® Unit in Well AU was much more effective than previous efforts in Well AW. Separate phase product recovery rates from Well AU have been maintained at an approximately two gallons per day. Discussions regarding the results of product recovery rates (e.g., cumulative product recovered to date) are presented in Section 6.2. With the continued presence of separate phase product and the limited product recovery rate in Well AW, a passive skimmer setup was installed on April 8, 2005.

As presented in section 5.2.2.1, separate-phase product was detected in Well AZ following the initiation of pumping in Well AO. Following this detection, pumping at Well AO was immediately discontinued and, since then, product has not been observed in Well AZ. Sorbent socks have been deployed in Well AZ to recover any residual product that may still be present; however, there has been no indication of additional product (i.e., sheen, sock staining, etc.) in Well AZ since the cessation of pumping.

6.2 Product Recovery Results

As presented in Section 6.1, product recovery efforts to date have consisted of the installation and operation of a Spill Buster® in Well AU and Well AW, the use of a passive skimmer in Well AW, and the deployment of sorbent socks within Well AZ. Operation of the Spill Buster® unit in Well AU has resulted in the recovery of approximately 190 gallons of separate phase product through April 8, 2005 at a consistent rate of approximately two gallons per day. **Figure 9** provides details regarding the cumulative product recovered with the Spill Buster® unit through April 8, 2005. Operation of the passive skimmer in Well AW has resulted in the recovery of approximately 0.5 to 0.75 gallons of separate phase product per week. The skimmer is retrieved from the well two to three times per week, and the recovered product is transferred to the storage tank utilized by the Spill Buster® unit.

7 Baseline Ecological Evaluation

In accordance with N.J.A.C. 7:26E-3.11, a baseline ecological evaluation was performed to identify the following: 1) constituents of potential environmental concern in soil and groundwater; 2) environmentally sensitive areas; and, 3) potential contaminant migration pathways. The results of the baseline ecological evaluation, which are presented in **Appendix G**, concluded that no further ecological evaluation is warranted.

8 Conclusions

The following detailed conclusions are based on the results of investigation activities and interim remedial actions completed to date:

- On August 2, 2004, a diesel fuel odor was observed in Catch Basin 27 just to the south of the Salem Unit 1 Fuel Handling Building. Investigation of the catch basin, revealed the presence of a red-dyed diesel fuel. Investigations into the source of the diesel fuel revealed the presence of underground piping adjacent to Catch Basin 27 that supplies diesel fuel from the bulk storage tank to diesel/generator storage tanks located within the Auxiliary Building and to the service water and circulating water boilers;

- PSEG performed a pressure test on the underground piping, which revealed the leak was in an approximate 300-foot section of the piping extending south from the Auxiliary Building. The location of the leak along the 300-foot section of piping was pinpointed using a "Tracer Tight" gas analysis. After the location of the leak was pinpointed, an excavation was opened to expose and repair the leak. Soil excavated from adjacent to and around the piping and approximately 150 gallons of separate-phase product were removed and disposed;

- Soil investigation activities consisted of the advancement of four soil borings. Due to the presence of extensive, facility-critical infrastructure within the area of investigation, the boring locations were limited. Soil samples were submitted for TPHC analysis. Analytical results of the soil samples submitted for TPHC analysis did not indicate concentrations above laboratory detection limits. The method detection limits ranged from 26 to 32 milligrams per kilogram (mg/kg).

- Results of the soil investigation indicate that the release of diesel fuel has not migrated a significant distance beyond the source area and that diesel related constituents of concern in soil are likely limited to the source area and the "smear-zone" where separate phase diesel has migrated. The estimated extent to which separate phase diesel has migrated is shown on **Figure 8**. Due to the extensive subsurface infrastructure, locations for advancing soil borings are limited. Due to these limitations, the extent of diesel-related constituents of concern in soil must be inferred with the existing groundwater monitoring well network;

- The investigation of groundwater consisted of the installation of five monitoring wells within and downgradient of the source area to evaluate the extent of dissolved-phase and separate-phase diesel. Water-level and product gauging and groundwater sampling were completed following installation of the wells. These activities utilized six monitoring wells (the five newly installed wells, and one previously existing monitoring well);

- Water-level and product measurements indicate that the extent of measurable product is limited to the area of Well AU, located at the source area, and Well AW, located downgradient of the source area along the service water pipes. Measurable product was detected during a single gauging event in Well AZ. Product migrated to this well under the influence of unrelated groundwater pumping in Well AO, which has subsequently been discontinued;

- The extent to which product has migrated is controlled by the significant facility-related subsurface infrastructure. The foundation for the primary water storage tank located to the west of Well AU prevents the migration of separate phase product in this direction. The service water piping that runs to the south from Well AU provided a preferential pathway for the migration of separate phase product towards Well AW;

- Product recovery efforts completed to date have included the installation of the Spill Buster® in Well AU and initially in Well AW, the installation and operation of a passive skimmer in Well AW, and the installation of sorbent socks within Well AZ. Operation of the Spill Buster® unit in Well AU has resulted in the recovery of approximately 190 gallons of separate phase product through April 8, 2005 at a consistent rate of approximately two gallons per day. Operation of the passive skimmer in Well AW has resulted in the recovery of approximately 0.5 to 0.75 gallons of separate phase product per week;

- Groundwater samples were collected from those wells not indicating the presence of separate phase product in December 2004 and March 2005. The groundwater samples were analyzed for VOCs and SVOCs. Analytical results of the groundwater samples did not indicate concentrations of constituents of concern above applicable GWQC; and,

- Results of the baseline ecological evaluation concluded that no further ecological evaluation is warranted.

9 Proposed Actions

Based on the results of investigation activities and interim remedial actions completed to date, the following actions are proposed:

- Continue operation and maintenance of the Spill Buster® unit and passive skimmer in Well AU and Well AW, respectively, until measurable separate phase product is no longer detected. Currently, routine maintenance of these systems is performed to ensure the timely change out of the product storage tank and the proper operation of the units;

- Quarterly groundwater monitoring will be conducted concurrently with the product recovery efforts. The quarterly groundwater sampling will consist of the collection and analysis of groundwater samples from those wells not indicating the presence of separate phase product. The groundwater samples will be analyzed for VOCs and SVOCs to evaluate the extent, if any, of dissolved phase constituents of concern. Semi-Annual Remedial Action Progress Reports will be prepared to update the NJDEP with the status of product recovery efforts and groundwater analytical results. A summary of the schedule for the sampling and reporting activities is presented in **Table 7**;

- Following completion of the product recovery efforts (i.e., measurable separate phase product is no longer detected) eight consecutive rounds of quarterly sampling will be completed (assuming concentrations of constituents of concern are above applicable GWQC) as required by the Mann-Whitney U-Test. The analytical results from these sampling events will be evaluated to determine if there are decreasing analytical trends;

- Following completion of the eight consecutive rounds of quarterly sampling, PSEG will either: 1) propose no further action for groundwater if groundwater analytical results continue to be below applicable GWQC; or, 2) establish a classification exception area and prepare a Remedial Action Work Plan that proposes a groundwater remediation strategy.

10 Request for Variance

Results of soil investigation activities completed to date indicate that soil impacts are limited to the source area of the release and the "smear zone" where the separate phase product plume has migrated. The investigation and remediation of soil impacts is technically impracticable to complete due to the extensive subsurface infrastructure located within this area. As such, PSEG is requesting a variance from the Technical Requirements for Site Remediation, specifically N.J.A.C. 7:26E-4.1(b), and is proposing to base the need for future soil investigation and remediation on groundwater analytical data and constituent-specific soil partition coefficients. Following the completion of product recovery efforts and the eight quarterly groundwater sampling events associated with the Mann-Whitney U-Test, PSEG will evaluate if decreasing trends for dissolved-phase constituents are observed. If such a trend is established, PSEG contends that groundwater quality analytical data can be used to demonstrate that residual mass is not present within the subsurface and that no further action for soil is warranted. If decreasing trends are not observed, then PSEG will evaluate remedial alternatives and prepare a Remedial Action Work Plan.

11 References

ARCADIS, 2004. *Remedial Investigation Report,* PSEG Nuclear, LLC Salem Generating Station. March 2004.

ARCADIS, 2005. *Remedial Investigation Work Plan,* PSEG Nuclear, LLC Salem Generating Station. January 2005.

New Jersey Department of Environmental Protection (NJDEP), 1990 - 1994. *Standard Operating Procedures for Analytical Data Validation.* Bureau of Environmental Measurements and Quality Assurance. 5.a.3, Revision 2. 5.a.4, Revision 1. 5.a.16, Revision 0. 17 April 1990 and 4 October 1994.

New Jersey Department of Environmental Protection (NJDEP), 1992. *Field Sampling Procedures Manual.* May 1992.

State of New Jersey Department of Conservation and Economic Development, 1969. *Geology and Ground-Water Resources of Salem County, New Jersey*; Division of Water Policy and Supply, Special Report No. 33.

United States Department of Agriculture (USDA) Natural Resources Conservation Service National Water & Climate Center, 1998. *Field Office Guide to Climatic Data,* last revised 18 November 1998.

Appendix A

Disposal Manifests

Fax Transmittal Form

To:

Attention: Brad Pierce

Fax Number: 267-685-1801

From: Albert W. Fisher

Company: PSE&G

Phone Number: 856-224-9109

Fax Number: 856-224-1574

Comment:

Brad the following shipping paper and scale ticket is for the soil removed from the Salem fuel oil line leak. The soil (approximately 2 cu/yds) was placed into the 20-cu/yd container utilized for minor on site spill cleanup. A total of 9.96 cu/yds was shipped to Casie Pro Tank for disposal. Of the 9.96 cubic yard shipped only 2 cu/yds was attributed to the fuel line leak.

CASIE PROTANK
ENVIRONMENTAL SERVICES

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

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NJD077070811 Document No.
2. Page 1 of
3. Generator's Name and Mailing Address PSE&G-Salem/Hope Creek Gen. Alloway Creek Neck Rd, PO Box Hancocks Bridge NJ 08038
4. Generator's Phone (609) 339-5338
5. Transporter 1 Company Name: C&H Disposal Service
6. US EPA ID Number: NONEREQUIRED
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address: Casie Ecology Oil Salvage, Inc. T/A 3209 N. Mill Rd / Casie ProLank Vineland NJ 08360
10. US EPA ID Number: NJD045995693
- A. Non-hazardous Manifest Document Number: NHZ020160890
- B. State Generator's ID: SAME
- C. State Trans. ID
- D. Transporter's Phone ( )
- E. State Trans. ID
- F. Transporter's Phone ( )
- G. State Facility's ID: 0614D1HP05
- H. Facility's Phone: (856) 696-4401

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
GENERATOR a.	Non-Hazardous Oily Debris Non DOT Regulated	001	CM	0020	T	ID27
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above: (S)(add'l codes)

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: a. 24 hr emergency response 1609-685-2156 C. Call

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

I hereby certify that the above-named material is not hazardous waste as defined by 40 CFR Part 261, 264 and 270 or any applicable state law.

Printed/Typed Name: James Coleman Signature: James Coleman Month Day Year: 08/10/04

TRANSPORTER

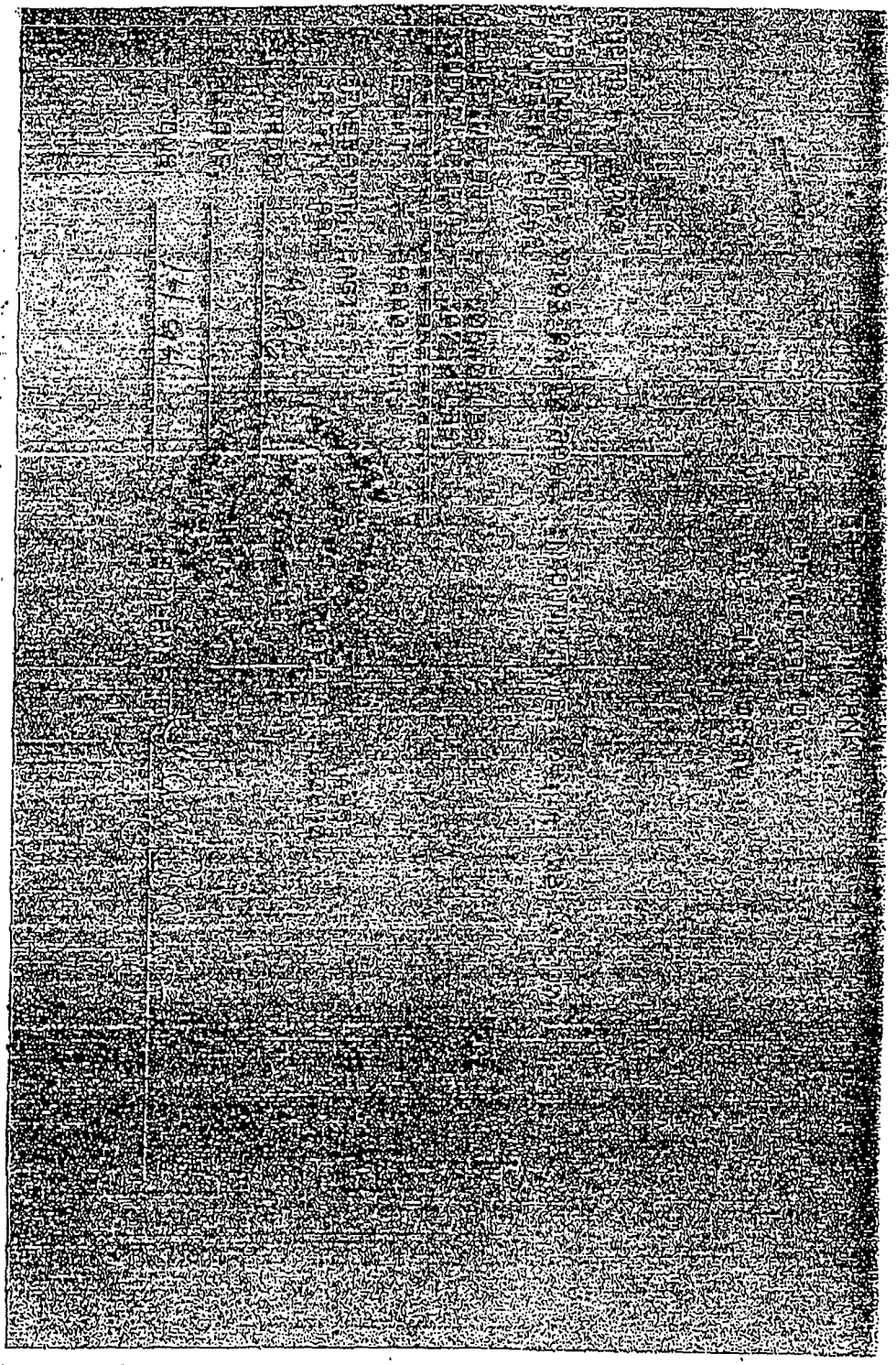
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Coleman Signature: James Coleman Month Day Year: 08/10/04

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name Signature Month Day Year



Remit To:

CleanHarbors®
ENVIRONMENTAL SERVICES COMPANIES
P.O. Box 3442
Boston, MA 02241-3442

INVOICE

Date: 3/9/05

Clean Harbors, Inc.
Oil Recycling Division
Tel: 800-522-4645

Bill To: Name: PSE&G Salem/Hope Creek
Address: Alloway Creek Neck Rd
City, State, Zip: Hancocks Bridge, NJ 08038
Phone #: (856) 224-9109

Job Site: Name:
Address:
City, State, Zip:
Phone #:

Invoice Number **MW 233955**

Sold By:	C.O.D.	Charge	P.O. #	

Quantity	Service Description	Price	Amount
2600	Waste Oil Removal		
	Antifreeze Removal		
	Oil Filter Removal		
	Waste Water Removal		
	Oil Delivery		
	Transporters Fee		
	Transportation Charges		
	Demurrage Charges		
	DRIVER CAN NOT ACCEPT CASH		
Received By: Glenn W. Tiller 3/9/05		Tax	
		Total Due	

DETACH AND MAIL

Date	Amount Due	Amount Paid

Customer Code:
Account Name:
Address:

Invoice Number
MW 233955

TERMS: Due Upon Receipt

Remit to: Clean Harbors, Inc.
P.O. Box 3442
Boston, MA 02241-3442

CREDIT CARD INFORMATION

(✓) CHECK ONE

☐ VISA ☐ MasterCard

Account Number:

Expiration Date: /

Amount Paid $

X
Signature

Appendix B

Soil Analytical Results

New Jersey
ACCUTEST
Laboratories

12/07/04

Technical Report for

Arcadis Geraghty & Miller

PSEG-Salem, Artificial Island, Salem, NJ

NP000571

Accutest Job Number: N83004

Sampling Dates: 11/08/04 - 11/09/04

Report to:

Arcadis Geraghty & Miller
6 Terry Drive
Newtown, PA 18940

ATTN: Brad Pierce

Total number of pages in report: 39

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Sample Summary

Arcadis Geraghty & Miller

Job No: N83004

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
N83004-1	11/08/04	10:15	DK	11/10/04	SO	Soil	D-2 (3.5-4.0)
N83004-2	11/08/04	11:30	DK	11/10/04	SO	Soil	D-4 (3.5-4.0)
N83004-3	11/08/04	12:00	DK	11/10/04	SO	Soil	D-4 (9.0-9.5)
N83004-4	11/08/04	13:00	DK	11/10/04	SO	Soil	D-3 (3.5-4.0)
N83004-5	11/09/04	14:00	DK	11/10/04	SO	Soil	D-5 (3.5-4.0)
N83004-5D	11/09/04	14:00	DK	11/10/04	SO	Soil Dup/MSD	D-5 (3.5-4.0)
N83004-5S	11/09/04	14:00	DK	11/10/04	SO	Soil Matrix Spike	D-5 (3.5-4.0)
N83004-6	11/09/04	11:00	DK	11/10/04	SO	Soil	D-50 (3.5-4.0)
N83004-7	11/09/04	15:00	DK	11/10/04	AQ	Field Blank Soil	FB-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST.

Table Of Contents
Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

RESULTS

Accutest Laboratories

Report of Analysis

Client Sample ID:	D-2 (3.5-4.0)		
Lab Sample ID:	N83004-1	**Date Sampled:**	11/08/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	92.7
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<28	28	mg/kg	1	11/11/04	NR	EPA 418.1 M
Solids, Percent	92.7		%	1	11/11/04	AK	ASTM 4643-00

RL = Reporting Limit

Report of Analysis

Client Sample ID:	D-4 (3.5-4.0)		
Lab Sample ID:	N83004-2	**Date Sampled:**	11/08/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	80.0
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<32	32	mg/kg	1	11/11/04	NR	EPA 418.1 M
Solids, Percent	80		%	1	11/11/04	AK	ASTM 4643-00

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	D-4 (9.0-9.5)		
Lab Sample ID:	N83004-3	**Date Sampled:**	11/08/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	88.2
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<29	29	mg/kg	1	11/11/04	NR	EPA 418.1 M
Solids, Percent	88.2		%	1	11/11/04	AK	ASTM 4643-00

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	D-3 (3.5-4.0)		
Lab Sample ID:	N83004-4	**Date Sampled:**	11/08/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	89.1
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<29	29	mg/kg	1	11/11/04	NR	EPA 418.1 M
Solids, Percent	89.1		%	1	11/11/04	AK	ASTM 4643-00

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	D-5 (3.5-4.0)		
Lab Sample ID:	N83004-5	**Date Sampled:**	11/09/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	94.4
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<27	27	mg/kg	1	11/12/04	NR	EPA 418.1 M
Solids, Percent	94.4		%	1	11/15/04	ADP	ASTM 4643-00

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	D-50 (3.5-4.0)		
Lab Sample ID:	N83004-6	**Date Sampled:**	11/09/04
Matrix:	SO - Soil	**Date Received:**	11/10/04
		Percent Solids:	94.6
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<26	26	mg/kg	1	11/12/04	NR	EPA 418.1 M
Solids, Percent	94.6		%	1	11/15/04	ADP	ASTM 4643-00

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N83004-7	**Date Sampled:**	11/09/04
Matrix:	AQ - Field Blank Soil	**Date Received:**	11/10/04
		Percent Solids:	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.51	0.51	mg/l	1	11/12/04	HBA	EPA 418.1

RL = Reporting Limit

CHAIN OF CUSTODY

ACCUTEST Laboratories

2235 Rou... ..ss, Dayton NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # N83004

Client / Reporting Information

Company Name: ARCADIS
Address: 6 Terry Drive
City: Newtown State: PA Zip: 18940
Project Contact: Brad Pierce E-mail:
Phone #: 267-685-1800
Sampler's Name: Derie Keerns

Project Information

Project Name: PSEG - Salem
Street: Artificial Island
City: Salem State: NJ
Project #: NP000571
Fax #:
Client Purchase Order #:

Requested Analysis

8260 ☐ 624 ☐ BTEX ☐ | 8021 ☐ 602 ☐ MTBE ☐ TBA ☐ | PAUG ☐ PALG ☐ NAP ☐
8260 ☐ 624 ☐ TBA ☐ | TCL ☐ PPL ☐ +10 ☐ | STARS ☐ MTBE ☐ +15 ☐
8270 ☐ 625 ☐ ABN ☐ | TCL ☐ PPL ☐ PAH ☐ | STARS ☐ +H2S ☐ PADF ☐
TPH 418.1 no preserv
VOC 8260 - VOA + 10 *

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles	Comments
-1	D-2 (3.5-4.0)	2369	11/8/04	10:15	DK	S	2	MEOH X	
-2	D-4 (3.5-4.0)	2365		11:30					14E7M
-3	D-4 (9.0-9.5)	2368		12:00					11C27
-4	D-3 (3.5-4.0)	2371		13:00					~~HCS~~ 40
+-5	D-5 (3.5-4.0)	2370, 2367		14:00					22-42
-5	D-5 (3.5-4.0) MS	29	11/9/04	11:00					"CS"
	D-5 (3.5-4.0) MSD	27		11:00					
-6	D-50 (3.5-4.0)	2363		11:00			3		
-7	FB-1			15:00					
-8	Trip Blank	28	11/8/04				1	TB Filled 11/8/04 @ 0830	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

Turnaround Time (Business Days)

Approved By: / Date:

- ☐ Std. 15 Business Days
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*
- ☒ Other — See notes

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☒ NJ Reduced
- ☐ NJ Full
- ☐ Other
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results Only

PHC FAST TRACK

Comments / Remarks

* = VOC analysis pending results of TPH
*) MeOH vial for sample
(1) For D-2(3.5-4.0) / D-4(3.5-4.0) / D-4(9.0-9.5) + D-3(3.5-4.0) need 24 hr TAT on TPH analysis, rest standard

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date/Time	Received by	Relinquished by	Date Time	Received by
1 Paul Fac	11/9/04 19:00	1 [signature] 11.10.04 10:20	2 [signature] 11/10	11.10.04	2 [signature]
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal # 284 Preserved where applicable ☐	On Ice ☒	Cooler Temp. 3

Internal Sample Tracking Chronicle

Arcadis Geraghty & Miller

Job No: N83004

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
N83004-1 Collected: 08-NOV-04 10:15 By: DK Received: 10-NOV-04 By: MP D-2 (3.5-4.0)						
N83004-1	EPA 418.1 M	11-NOV-04	NR	11-NOV-04	NR	PHCFT
N83004-1	ASTM 4643-00	11-NOV-04	AK			%SOLFT
N83004-2 Collected: 08-NOV-04 11:30 By: DK Received: 10-NOV-04 By: MP D-4 (3.5-4.0)						
N83004-2	EPA 418.1 M	11-NOV-04	NR	11-NOV-04	NR	PHCFT
N83004-2	ASTM 4643-00	11-NOV-04	AK			%SOLFT
N83004-3 Collected: 08-NOV-04 12:00 By: DK Received: 10-NOV-04 By: MP D-4 (9.0-9.5)						
N83004-3	EPA 418.1 M	11-NOV-04	NR	11-NOV-04	NR	PHCFT
N83004-3	ASTM 4643-00	11-NOV-04	AK			%SOLFT
N83004-4 Collected: 08-NOV-04 13:00 By: DK Received: 10-NOV-04 By: MP D-3 (3.5-4.0)						
N83004-4	EPA 418.1 M	11-NOV-04	NR	11-NOV-04	NR	PHCFT
N83004-4	ASTM 4643-00	11-NOV-04	AK			%SOLFT
N83004-5 Collected: 09-NOV-04 14:00 By: DK Received: 10-NOV-04 By: MP D-5 (3.5-4.0)						
N83004-5	EPA 418.1 M	12-NOV-04	NR	11-NOV-04	AS	PHCFT
N83004-5	ASTM 4643-00	15-NOV-04	ADP			%SOLFT
N83004-6 Collected: 09-NOV-04 11:00 By: DK Received: 10-NOV-04 By: MP D-50 (3.5-4.0)						
N83004-6	EPA 418.1 M	12-NOV-04	NR	11-NOV-04	AS	PHCFT
N83004-6	ASTM 4643-00	15-NOV-04	ADP			%SOLFT
N83004-7 Collected: 09-NOV-04 15:00 By: DK Received: 10-NOV-04 By: MP FB-1						
N83004-7	EPA 418.1	12-NOV-04	HBA	12-NOV-04	HBA	PHCFT

GEN CHEM

ACCUTEST.

General Chemistry Case Narrative/Conformance/Non-Conformance Summary

	NO	YES
1. Blank levels below reporting limits?		✓
If no, list analytes above reporting limits:		
2. Spike blank or lab control data within acceptable limits?		✓
If no, list analytes outside of acceptable limits. Refer to QC summary for additional comments:		
3. Matrix Spike data within acceptable limits?		✓
If no, list analytes outside of acceptable limits. Refer to QC summary for additional comments:		
4. Matrix duplicate data within acceptable limits?		✓
If no, list analytes outside of acceptable limits. Refer to QC summary for additional comments:		
5. Samples prepared and analyzed within holding time?		✓
If holding times were not met, list analytes where holding times were exceeded and explain:		
6. All analytical criteria met (calibrations, CCV checks, etc.)?		✓
If no, list affected samples and elements:		

Additional Comments:

QC Review Signature: Mary Lum Date: 12/04/04

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: N83004
Account: AGMPAL - Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Petroleum Hydrocarbons	GP25960/GN73662	25	<25	mg/kg	130	105	80.8	80-120%
Petroleum Hydrocarbons	GP25986/GN73706	25	<25	mg/kg	130	112	86.2	80-120%
Petroleum Hydrocarbons	GP26003/GN73732	0.50	<0.50	mg/l	1.30	1.1	84.6	80-120%

Associated Samples:
Batch GP25960: N83004-1, N83004-2, N83004-3, N83004-4
Batch GP25986: N83004-5, N83004-6
Batch GP26003: N83004-7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: N83004
Account: AGMPAL - Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Petroleum Hydrocarbons	GP25960/GN73991	N82700-1	mg/kg	<27	135	107	79.4	52-132%
Petroleum Hydrocarbons	GP25986/GN73706	N83004-5	mg/kg	<27	133	120	89.9	52-132%
Petroleum Hydrocarbons	GP26003/GN73732	N82903-1	mg/l	<0.53	1.40	1.7	121.4	59-137%

Associated Samples:
Batch GP25960: N83004-1, N83004-2, N83004-3, N83004-4
Batch GP25986: N83004-5, N83004-6
Batch GP26003: N83004-7

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: N83004
Account: AGMPAL - Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Petroleum Hydrocarbons	GP25960/GN73662	N82700-1	mg/kg	<27	<27	0.0	0-34%
Petroleum Hydrocarbons	GP25986/GN73706	N83004-5	mg/kg	<27	<27	0.0	0-34%
Petroleum Hydrocarbons	GP26003/GN73732	N82913-4A	mg/l	<0.63	<0.54	0.0	0-33%

Associated Samples:
Batch GP25960: N83004-1, N83004-2, N83004-3, N83004-4
Batch GP25986: N83004-5, N83004-6
Batch GP26003: N83004-7

ACCUTEST

Prep Log - IPH

Test: **Petroleum Hydrocarbons**
Product: **PHC**
Method: **EPA 418.1 Mod**
Matrix: **Soil / Solid**
Analytical wavenumber: **2924 cm-1**
Balance #: **b11**
Freon Used: **midatlantic 400280a**
Spike Lot #: **gne11-7141-phc**

Analyst: **HA**
GN Batch ID: **GN73662**
GP Batch ID: **GP25960**
Analysis Date: **11/11/04**
Prep Date: **11/10/2004 17:07**

	Cell #	BOT #	Sample ID	Sample Wt (g)	Dilution	Dilution Prep	Comments
1	A1		GP25960-MB1	10.0000			
2	A2		GP25960-B1	10.0000			1.0 mL of 1.30 mg/mL
3	A3	1	GP25960-S1(n82700-1)	9.8000			1.0 mL of 1.30 mg/mL
4	A4	1	GP25960-D1(n82700-1)	9.9000			
5	A5	1	N83004-1	9.8000			
6	A6	1	N83004-2	9.8000			
7	A7	1	N83004-3	9.8000			
8	A8	1	N83004-4	9.8000			
9	A9	1	N82700-1 XX	9.9000			ornage brwn, sand like, no odor
10	A10	1	N82700-2	9.7			
11	A11	1	N82700-3	9.8000			
12	A12	1	N82700-4	9.7000			
13	A13	1	N82700-5	9.9000			
14	A14	1	N82700-6	9.9000			
15	A15	1	N82700-7	9.8000	1:5	5ml → 25ml Freon	
16	A16	1	N82700-8 cont	9.7			confusion what sample is in 16 Back to No8
17	A17	1	N82830-3	9.9			
18	A18	1	N82830-4	9.8	1:50	0.5ml → 25ml Freon	
19	A19	1	N82830-5	9.9000	1:250	0.1ml → 25ml Freon	
20	A20	1	N82830-6	9.8000	1:25	1ml → 25ml Freon	
21	A21	1	N82830-7	9.8000	1:25	1ml → 25ml Freon	
22	A22	1	N82593-1	5.0000			high moisture content
23	A23	1	N82593-2	5.6000	1:5	5ml → 25ml Freon	high moisture content
24	A24	1	N82593-3	5.2000	1:5	5ml → 25ml Freon	high moisture content

XX = QC Sample

Analyst: N. R. Date: 11/11/04 QC Reviewer: Date: 11/11/04

Test Title: PHC — EPA 418.1 Mod
Analyst: NR
Prep Date: 11/10/2004 — Analysis Date: 11/11/2004
GP Batch #: GP25960 — GN Batch: GN73662

Corr. Coef: 0.999114
Slope: 129.44438
Intercept: -0.75919

	Time	Sample #	X Values(abs)	Y Values Conc (mg/l)	Final Vol. (ml)	Sam. Wt. (g)	Dilution	Final Conc.	Units	DL	Factor
		Cal Blk	0	0.0							
		STD 1	0.047	5.00							
		STD 2	0.082	10.00							
		STD 3	0.155	20.00							
		STD 4	0.336	40.00							
		STD 5	0.465	60.00							
		STD 6	0.617	80.00							
	14:40	ICV	0.33	41.96	NA	NA	NA	NA	mg/l	0.5	NA
	14:41	CCV	0.337	42.86	NA	NA	NA	NA	mg/l	0.5	NA
MB		GP25960-MB1	0.016	1.31	25.0	10.00	1	3.3	mg/kg	25.0	1
BS		GP25960-B1	0.33	41.96	25.0	10.00	1	104.9	mg/kg	25.0	1
MS		GP25960-S1	0.134	16.59	25.0	9.80	1	42.3	mg/kg	25.0	1.020408
DUP		GP25960-D1	0.009	0.41	25.0	9.90	1	1.0	mg/kg	25.0	1.010101
		N82593-1	0.025	2.48	25.0	5.00	1	12.4	mg/kg	25.0	2
		N82593-2	OVR	#VALUE!	25.0	5.60	1			25.0	1.785714
		N82593-2	0.316	40.15	25.0	5.60	5	896.1	mg/kg	25.0	1.785714
		N82593-3	OVR	#VALUE!	25.0	5.20	1			25.0	1.923077
		N82593-3	0.164	20.47	25.0	5.20	5	492.1	mg/kg	25.0	1.923077
10		N82700-1	0.012	0.79	25.0	9.90	1	2.0	mg/kg	25.0	1.010101
	15:13	CCV	0.335	42.60	NA	NA	NA	NA	mg/l	0.5	NA
11		N82700-2	0.028	2.87	25.0	9.70	1	7.4	mg/kg	25.0	1.030928
12		N82700-3	0.085	10.24	25.0	9.80	1	26.1	mg/kg	25.0	1.020408
13		N82700-4	0.136	16.85	25.0	9.70	1	43.4	mg/kg	25.0	1.030928
14		N82700-5	0.076	9.08	25.0	9.90	1	22.9	mg/kg	25.0	1.010101
		N82700-6	0.017	1.44	25.0	9.90	1	3.6	mg/kg	25.0	1.010101
		N82700-7	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
		N82700-7	0.164	20.47	25.0	9.80	5	261.1	mg/kg	25.0	1.020408
18		N82700-8conf		#VALUE!	25.0		1			25.0	#DIV/0!
19		N82830-3	0.417	53.22	25.0	9.90	1	134.4	mg/kg	25.0	1.010101
20		N82830-4	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
	15:30	CCV	0.338	42.99	NA	NA	NA	NA	mg/l	0.5	NA
21		N82830-4	0.212	26.68	25.0	9.80	50	3403.4	mg/kg	25.0	1.020408
22		N82830-5	OVR	#VALUE!	25.0	9.90	1			25.0	1.010101
23		N82830-5	0.236	29.79	25.0	9.90	250	18806.6	mg/kg	25.0	1.010101
24		N82830-6	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
25		N82830-6	0.216	27.20	25.0	9.80	25	1734.7	mg/kg	25.0	1.020408
26		N82830-7	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
27		N82830-7	0.134	16.59	25.0	9.80	25	1057.8	mg/kg	25.0	1.020408
28		N83004-1	0.018	1.57	25.0	9.80	1	4.0	mg/kg	25.0	1.020408
29		N83004-2	0.028	2.87	25.0	9.80	1	7.3	mg/kg	25.0	1.020408
30		N83004-3	0.016	1.31	25.0	9.80	1	3.3	mg/kg	25.0	1.020408
	15:42	CCV	0.339	43.12	NA	NA	NA	NA	mg/l	0.5	NA
31		N83004-4	0.045	5.07	25.0	9.80	1	12.9	mg/kg	25.0	1.020408
32				#VALUE!	25.0		1			25.0	#DIV/0!
33				#VALUE!	25.0		1			25.0	#DIV/0!
34				#VALUE!	25.0		1			25.0	#DIV/0!
35				#VALUE!	25.0		1			25.0	#DIV/0!
36				#VALUE!	25.0		1			25.0	#DIV/0!
37				#VALUE!	25.0		1			25.0	#DIV/0!
38				#VALUE!	25.0		1			25.0	#DIV/0!
39				#VALUE!	25.0		1			25.0	#DIV/0!
40				#VALUE!	25.0		1			25.0	#DIV/0!
	15:44	CCV	0.338	42.99	NA	NA	NA	NA	mg/l	0.5	NA
41				#VALUE!	25.0		1			25.0	#DIV/0!
42				#VALUE!	25.0	27.00	1			25.0	0.37037
43				#VALUE!	25.0	28.00	1			25.0	0.357143
44				#VALUE!	25.0	29.00	1			25.0	0.344828

ACCUTEST.

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1 Mod

Units: mg/kg

Analyst: NR
GNBatch ID: GN73662
GPBatch ID: GP25960
Date: 11/11/04

Preparation Batch QC Summary Units = mg/kg

Method Blank ID: GP25960-MB1 Date: 11/11/04 Result: <25.0 DL: 25.0 <DL: Yes
Spike Blank ID: -B1 Date: ↓ Result: 105 Spike: 130 %Rec.: 80.8% ✓
Duplicate ID: -D1 Samp. Result: <25.0 Dup. Result: <25.0 %RPD: 0%
MS ID: ↓ S1 Samp. Result: <25.0 MS Result: 42.3 Spike: 133 %Rec: 31.8%

Method Blank ID: _____ Date: _____ Result: _____ DL: _____ <DL: _____
Spike Blank ID: _____ Date: _____ Result: _____ Spike: _____ %Rec.: _____
Duplicate ID: _____ Samp. Result: _____ Dup. Result: _____ %RPD: _____
MS ID: _____ Samp. Result: _____ MS Result: _____ Spike: _____ %Rec: _____

Analysis Batch QC Summary Units = mg/mL
ICV (Ext): 11/11/04 Result: 4.20 TV: 4.00 %Rec: 105%

CCV: ↓ Result: 4.29 TV: ↓ %Rec.: 107%
CCV: Result: 4.26 TV: %Rec.: 106% ✓
CCV: Result: 4.30 TV: %Rec.: 108%
~~CCV: Result: 4.30 NG 11/11/04 TV: %Rec.:~~
CCV: Result: 4.31 TV: %Rec.: 108%
CCV: ↓ Result: 4.30 TV: ↓ %Rec.: 108%

CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____

Reagent Reference Numbers: See Attached

Freon Manufacturer: _____ Lot Number: _____
Sodium Sulfate Manufacturer: _____ Lot Number: _____
Silica Gel Manufacturer: _____ Lot Number: _____

Analyst: N. K Date: 11/11/04

Comments: _____

Form: GN-109-01
Rev. Date:2/15/99

ACCUTEST.

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: TPHC

GN or GP Number: GN73662

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume used in ml	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
DIL. STD STOCK	GNE10-7045-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	NR	11/11/04
DIL. EXT STOCK	GNE10-7046-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	NR	11/11/04
Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
STD 1	GNE10-7047-PHC	1000 PPM	0.5	FREON	100ML	5.0	11/24/04	NR	11/11/04
STD 2			1.0			10.0			
STD 3			2.0			20.0			
STD 4			4.0			40.0			
STD 5			6.0			60.0			
STD 6			8.0			80.0			
EXT (ICV)	GNE10-7048-PHC		4.0			40.0			

Form: GN121
Rev. Date:9/14/01

ACCUTEST

Reagent Information Log - PHC

Reagent	Reagent # or Manufacturer/Lot	Exp. Date
Fluorocarbon - 113	Virgin 400280A	NA
Spike Solution	GNE11-7141-PHC	12/5/04
Sodium Sulfate	Baker 39585	NA
Hydromatrix	Varian 28204	NA
Silica Gel	Fisher 037259	NA
ICV	GNE10-7048-PHC	11/24/04
CCV	GNE10-7047-PHC	11/24/04

All standards and stocks were made as described in the SOP for this method (circle one): (Y) or N
If no (N), see attached page for standards prep.

Form: GN-087 1-45B
Rev. Date:10/20/2004

ACCUTEST.

Prep Log - .PH

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1 Mod
Matrix: Soil / Solid
Analytical wavenumber: 2924 cm-1
Balance #: b-11
Freon Used: VIRGIN 400280A
Spike Lot #: gne11-7141-phc

Analyst: AMINAS
GN Batch ID: GN73706
GP Batch ID: GP25986
Analysis Date: 11/12/04
Prep Date: 11/11/2004 15:49

	Cell #	BOT #	Sample ID	Sample Wt (g)	Dilution	Dilution Prep	Comments
1	A23		GP25986-MB1				
2	A22		GP25986-B1				1 ml of 1.30mg/ml
3	A3	5	GP25986-S1	10.3000			1 ml of 1.30 mg/ml
4	A6	5	GP25986-D1	9.7000			
5	A19	1	N82152-10	9.8000			
6	A13	1	N82152-11	9.5000			
7	A24	1	N82152-12	10.2000			
8	A21	1	N82152-13	9.9000			
9	A4	5	N83004-5 XX	9.8000			
10	A18	1	N83004-6	10.2			
11	A2	1	N83011-1	10.1000			
12	A15	1	N83011-2	9.7000			
13	A17	1	N83011-3	9.7000			
14	A9	1	N83011-4	9.7000			
15	A14	1	N83011-5	9.9000			
16	A16	1	N83011-6	9.8			
17	A1	1	N83123-1	10.2	1:25	1ml → 25ml Freon	
18	A7	1	N83123-2	9.8	1:25	1ml → 25ml Freon	
19	A5	1	N83123-3	10.3000	1:50	0.5ml → 25ml Freon	
20	A12	1	N83123-4	10.0000			
21	A10	1	N83123-5	9.9000	1:125	0.2ml → 25ml Freon	
22	A8	1	N83123-6	9.9000			
23	A11	1	N83123-7	9.8000			
24							

XX = QC Sample

Analyst: P. R. Date: 11/12/04 QC Reviewer: Date: 11/12/04

Test Title: PHC — EPA 418.1 Mod
Analyst: NR
Prep Date: 11/11/2004 — Analysis Date: 11/12/2004
GP Batch #: GP25986 — GN Batch: GN73706

Check QC

	Time	Sample #	X Values(abs)	Y Values Conc (mg/l)	Final Vol.	Sam. Wt.	Dilution	Corr. Coef: 0.9988857			
		Cal Blk	0	0.0				Slope: 129.92357			
		STD 1	0.043	5.00							
		STD 2	0.083	10.00				Intercept: -0.782899			
		STD 3	0.157	20.00							
		STD 4	0.338	40.00							
		STD 5	0.463	60.00	Final Vol. (ml)	Sam Wt (g)	Dilution	Final Conc.	Units	DL	Factor
		STD 6	0.613	80.00							
	15:27	ICV	0.329	41.96	NA	NA	NA	NA	mg/l	0.5	NA
	15:28	CCV	0.338	43.13	NA	NA	NA	NA	mg/l	0.5	NA
1. MB		GP25986-MB1	0.015	1.17	25.0	10.00	1	2.9	mg/kg	25.0	1
2. BS		GP25986-B1	0.351	44.62	25.0	10.00	1	112.1	mg/kg	25.0	1
3. MS		GP25986-S1	0.365	46.64	25.0	10.30	1	113.2	mg/kg	25.0	0.970874
4. DUP		GP25986-D1	0.04	4.41	25.0	9.70	1	11.4	mg/kg	25.0	1.030928
5		N82152-10	0.025	2.47	25.0	9.80	1	6.3	mg/kg	25.0	1.020408
6		N82152-11	0.018	1.56	25.0	9.50	1	4.1	mg/kg	25.0	1.052632
7		N82152-12	0.017	1.43	25.0	10.20	1	3.5	mg/kg	25.0	0.980392
8		N82152-13	0.073	8.70	25.0	9.90	1	22.0	mg/kg	25.0	1.010101
9		N83004-5	0.04	4.41	25.0	9.80	1	11.3	mg/kg	25.0	1.020408
10		N83004-6	0.026	2.60	25.0	10.20	1	6.4	mg/kg	25.0	0.980392
	15:45	CCV	0.34	43.39	NA	NA	NA	NA	mg/l	0.5	NA
11		N83011-1	0.014	1.04	25.0	10.10	1	2.6	mg/kg	25.0	0.990099
12		N83011-2	0.017	1.43	25.0	9.70	1	3.7	mg/kg	25.0	1.030928
13		N83011-3	0.025	2.47	25.0	9.70	1	6.4	mg/kg	25.0	1.030928
14		N83011-4	0.009	0.39	25.0	9.70	1	1.0	mg/kg	25.0	1.030928
15		N83011-5	0.267	33.91	25.0	9.90	1	85.6	mg/kg	25.0	1.010101
		N83011-6	0.015	1.17	25.0	9.80	1	3.0	mg/kg	25.0	1.020408
		N83123-1	OVR	#VALUE!	25.0	10.20	1			25.0	0.980392
18		N83123-1	0.181	22.73	25.0	10.20	25	1393.0	mg/kg	25.0	0.980392
19		N83123-2	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
20		N83123-2	0.26	33.00	25.0	9.80	25	2104.4	mg/kg	25.0	1.020408
	16:02	CCV	0.338	43.13	NA	NA	NA	NA	mg/l	0.5	NA
21		N83123-3	OVR	#VALUE!	25.0	10.30	1			25.0	0.970874
22		N83123-3	0.271	34.43	25.0	10.30	50	4178.0	mg/kg	25.0	0.970874
23		N83123-4	0.057	6.62	25.0	10.00	1	16.6	mg/kg	25.0	1
24		N83123-5	OVR	#VALUE!	25.0	9.90	1			25.0	1.010101
25		N83123-5	0.243	30.79	25.0	9.90	125	9718.6	mg/kg	25.0	1.010101
26		N83123-6	0.297	37.80	25.0	9.90	1	95.5	mg/kg	25.0	1.010101
27		N83123-7	0.038	4.15	25.0	9.80	1	10.6	mg/kg	25.0	1.020408
28				#VALUE!	25.0		1			25.0	#DIV/0!
29				#VALUE!	25.0		1			25.0	#DIV/0!
30				#VALUE!	25.0		1			25.0	#DIV/0!
	16:19	CCV	0.338	43.13	NA	NA	NA	NA	mg/l	0.5	NA
31				#VALUE!	25.0		1			25.0	#DIV/0!
32				#VALUE!	25.0		1			25.0	#DIV/0!
33				#VALUE!	25.0		1			25.0	#DIV/0!
34				#VALUE!	25.0		1			25.0	#DIV/0!
35				#VALUE!	25.0		1			25.0	#DIV/0!
36				#VALUE!	25.0		1			25.0	#DIV/0!
37				#VALUE!	25.0		1			25.0	#DIV/0!
38				#VALUE!	25.0		1			25.0	#DIV/0!
39				#VALUE!	25.0	27.00	1			25.0	0.37037
40				#VALUE!	25.0	28.00	1			25.0	0.357143
		CCV		#VALUE!	NA	NA	NA	NA		0.5	NA
41				#VALUE!	25.0	29.00	1			25.0	0.344828
42				#VALUE!	25.0	30.00	1			25.0	0.333333
43				#VALUE!	25.0	31.00	1			25.0	0.322581
44				#VALUE!	25.0		1			25.0	#DIV/0!

ACCUTEST.

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1 Mod

Units: mg/kg

Analyst: NR
GNBatch ID: GN73706
GPBatch ID: GP25986
Date: 11/12/04

Preparation Batch QC Summary Units = mg/kg

Method Blank ID: GP25986-MB1 Date: 11/12/04 Result: < 25.0 DL: 25.0 <DL: Yes
Spike Blank ID: -B1 Date: ↓ Result: 112 Spike: 130 %Rec.: 86.2%
Duplicate ID: -D1 Samp. Result: < 25.0 Dup. Result: < 25.0 %RPD: 0%
MS ID: ↓-S1 Samp. Result: < 25.0 MS Result: 113 Spike: 126 %Rec: 89.7%

Method Blank ID: _____ Date: _____ Result: _____ DL: _____ <DL: _____
Spike Blank ID: _____ Date: _____ Result: _____ Spike: _____ %Rec.: _____
Duplicate ID: _____ Samp. Result: _____ Dup. Result: _____ %RPD: _____
MS ID: _____ Samp. Result: _____ MS Result: _____ Spike: _____ %Rec: _____

Analysis Batch QC Summary Units = mg/mL
ICV (Ext): 11/12/04 Result: 4.20 TV: 4.00 %Rec: 105%

CCV: _____ Result: 4.31 TV: _____ %Rec.: 108%
CCV: _____ Result: 4.34 TV: _____ %Rec.: 109%
CCV: _____ Result: 4.31 TV: _____ %Rec.: 108%
CCV: ↓ Result: 4.31 TV: ↓ %Rec.: 108%
CCV: _____ Result: _____ TV: _____ %Rec.: _____
CCV: _____ Result: _____ TV: _____ %Rec.: _____

CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____
CCB: _____ Result: _____ DL: _____ <DL: _____

Reagent Reference Numbers: See Attached

Freon Manufacturer: _____ Lot Number: _____
Sodium Sulfate Manufacturer: _____ Lot Number: _____
Silica Gel Manufacturer: _____ Lot Number: _____

Analyst: N. La [signature] Date: 11/12/04

Comments: _____

Form: GN-109-01
Rev. Date:2/15/99

ACCUTEST.

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: TPHC

(GN) or GP Number: GN23705

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume used in ml	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
DIL. STD STOCK	GNE10-7045-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	NR	11/12/04
DIL. EXT STOCK	GNE10-7046-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	NR	11/12/04

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
STD 1	GNE10-7047-PHC	1000 PPM	0.5	FREON	100ML	5.0	11/24/04	NR	11/12/04
STD 2			1.0			10.0			
STD 3			2.0			20.0			
STD 4			4.0			40.0			
STD 5			6.0			60.0			
STD 6			8.0			80.0			
EXT (ICV)	GNE10-7048-PHC		4.0			40.0			

ACCUTEST.

Reagent Information Log - PHC

Reagent	Reagent # or Manufacturer/Lot	Exp. Date
Fluorocarbon - 113	Virgin 400280A	NA
Spike Solution	GNE11-7141-PHC	12/5/04
Sodium Sulfate	EMD 44121428	NA
Hydromatrix	Varian 28204	NA
Silica Gel	Fisher 03725-9	NA
ICV	GNE10-7048-PHC	11/24/04
CCV	GNE10-7047-PHC	11/24/04

All standards and stocks were made as described in the SOP for this method (circle one) (Y) or N
If no (N), see attached page for standards prep

ACCUTEST

Prep Log - TPH

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1 Mod
Matrix: Soil / Solid
Analytical wavenumber: 2924 cm-1
Balance #: b11
Freon Used: virgin 400280a
Spike Lot #: gne11-7141-phc

Analyst: NR
GN Batch ID: 73991
GP Batch ID: GP26097
Analysis Date: 11/20/04
Prep Date: 11/19/2004 8:51

	Cell #	BOT #	Sample ID	Sample Wt (g)	Dilution	Dilution Prep	Comments
1	A1		GP26097-MB1				
2	A2		GP26097-B1				1 ml of 1.30 mg/ml
3	A3	1	GP26097-S1(n82237-2)	10.3000			1 ml of 1.30 mg/ml
4	A4	1	GP26097-D1(n82237-2)	10.3000			
5	A5	1	N82237-1	9.8000			
6	A6	1	N82237-2 XX	10.3000			brown moist sand, few small pebbles, slt odor
7	A7	1	N82237-3	9.6000			
8	A8	1	N82237-4	10.3000			
9	A9	1	N82237-5	9.8000			
10	A10	1	N82237-6	10.2000			
11	A11	1	N83561-10	9.9000			
12	A12	1	N83561-3	9.7000	1:250	0.1ml → 25ml	
13	A13	1	N83561-4	9.5			
14	A14	1	N83561-5	10.1			
15	A15	1	N83561-6	9.7	1:5	5.0ml → 25ml	
16	A16	1	N83561-7	9.7	1:5	5.0ml → 25ml	
17	A17	1	N83561-8	9.9			
18	A18	1	N83561-9	10.1			
19	A19	1	N83706-1	10.0			
20	A20	1	N83706-2	9.8	1:25	1.0ml → 25ml	
21	A21	1	N83706-6	9.9			
22	A22	1	N83706-7	10.2			
23	A23	1	N83827-1	10.1			
24	A24	1	GP25960-S2(n82700-1)	10.0			

XX = QC Sample

Analyst: [signature] Date: 11/20/04 QC Reviewer: [signature] Date: 11/21/04

11/23/04

Total Petroleum Hydrocarbon Soils

Test Title: PHC — EPA 418.1 Mod
Analyst: JAREDO
Prep Date: 11/19/2004 — Analysis Date: 11/20/2004
GP Batch #: GP26097 — GN Batch: GN73991

Corr. Coef: 0.9987039
Slope: 127.48608
Intercept: -0.574441

	Time	Sample #	X Values(abs)	Y Values Conc (mg/l)	Final Vol.	Sam. Wt.	Dilution	Final Conc.	Units	DL	Factor
		Cal Blk	0	0.0							
		STD 1	0.041	5.00							
		STD 2	0.08	10.00							
		STD 3	0.16	20.00							
		STD 4	0.345	40.00							
		STD 5	0.47	60.00	Final Vol. (ml)	Sam Wt (g)	Dilution	Final Conc.	Units	DL	Factor
		STD 6	0.622	80.00							
		ICV	0.329	41.37	NA	NA	NA	NA	mg/l	0.5	NA
		CCV	0.34	42.77	NA	NA	NA	NA	mg/l	0.5	NA
	MB	GP26097-MB1	0.011	0.83	25.0	10.00	1	2.1	mg/kg	25.0	1
	BS	GP26097-B1	0.356	44.81	25.0	10.00	1	112.0	mg/kg	25.0	1
	MS	GP26097-S1	0.329	41.37	25.0	10.30	1	100.4	mg/kg	25.0	0.970874
	DUP	GP26097-D1	0.009	0.57	25.0	10.30	1	1.4	mg/kg	25.0	0.970874
5		N82237-1	0.011	0.83	25.0	9.80	1	2.1	mg/kg	25.0	1.020408
6		N82237-2	0.007	0.32	25.0	10.30	1	0.8	mg/kg	25.0	0.970874
7		N82237-3	0.004	-0.06	25.0	9.60	1	-0.2	mg/kg	25.0	1.041667
8		N82237-4	0.026	2.74	25.0	10.30	1	6.7	mg/kg	25.0	0.970874
9		N82237-5	0.016	1.47	25.0	9.80	1	3.7	mg/kg	25.0	1.020408
10		N82237-6	0.011	0.83	25.0	10.20	1	2.0	mg/kg	25.0	0.980392
		CCV	0.34	42.77	NA	NA	NA	NA	mg/l	0.5	NA
11		N83561-10	0.016	1.47	25.0	9.90	1	3.7	mg/kg	25.0	1.010101
12		N83561-3	OVR	#VALUE!	25.0	9.70	1			25.0	1.030928
13		N83561-3	0.343	43.15	25.0	9.70	250	27805.0	mg/kg	25.0	1.030928
14		N83561-4	0.117	14.34	25.0	9.50	1	37.7	mg/kg	25.0	1.052632
15		N83561-5	0.02	1.98	25.0	10.10	1	4.9	mg/kg	25.0	0.990099
		N83561-6	OVR	#VALUE!	25.0	9.70	1			25.0	1.030928
17		N83561-6	0.402	50.67	25.0	9.70	5	653.0	mg/kg	25.0	1.030928
18		N83561-7	OVR	#VALUE!	25.0	9.70	1			25.0	1.030928
19		N83561-7	0.263	32.95	25.0	9.70	5	424.7	mg/kg	25.0	1.030928
20		N83561-8	0.003	-0.19	25.0	9.90	1	-0.5	mg/kg	25.0	1.010101
		CCV	0.34	42.77	NA	NA	NA	NA	mg/l	0.5	NA
21		N83561-9	0.073	8.73	25.0	10.10	1	21.6	mg/kg	25.0	0.990099
22		N83706-1	0.012	0.96	25.0	10.00	1	2.4	mg/kg	25.0	1
23		N83706-2	OVR	#VALUE!	25.0	9.80	1			25.0	1.020408
24		N83706-2	0.496	62.66	25.0	9.80	25	3996.1	mg/kg	25.0	1.020408
25		N83706-6	0.039	4.40	25.0	9.90	1	11.1	mg/kg	25.0	1.010101
26		N83706-7	0.009	0.57	25.0	10.20	1	1.4	mg/kg	25.0	0.980392
27		N83827-1	0.254	31.81	25.0	10.10	1	78.7	mg/kg	25.0	0.990099
28		GP25960-S2	0.318	39.97	25.0	10.00	1	99.9	mg/kg	25.0	1
29				#VALUE!	25.0		1			25.0	#DIV/0!
30				#VALUE!	25.0		1			25.0	#DIV/0!
		CCV	0.341	42.90	NA	NA	NA	NA	mg/l	0.5	NA
31				#VALUE!	25.0		1			25.0	#DIV/0!
32				#VALUE!	25.0		1			25.0	#DIV/0!
33				#VALUE!	25.0		1			25.0	#DIV/0!
34				#VALUE!	25.0		1			25.0	#DIV/0!
35				#VALUE!	25.0		1			25.0	#DIV/0!
36				#VALUE!	25.0		1			25.0	#DIV/0!
37				#VALUE!	25.0		1			25.0	#DIV/0!
38				#VALUE!	25.0		1			25.0	#DIV/0!
39				#VALUE!	25.0	27.00	1			25.0	0.37037
40				#VALUE!	25.0	28.00	1			25.0	0.357143
		CCV		#VALUE!	NA	NA	NA	NA		0.5	NA
41				#VALUE!	25.0	29.00	1			25.0	0.344828
42				#VALUE!	25.0	30.00	1			25.0	0.333333
43				#VALUE!	25.0	31.00	1			25.0	0.322581
44				#VALUE!	25.0		1			25.0	#DIV/0!

ACCUTEST.

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1 Mod

Units: mg/kg

Analyst: JO
GNBatch ID: 73991
GPBatch ID: 26097.
Date: 11/19/04

Preparation Batch QC Summary Units = mg/kg.

Method Blank ID: MB1 Date: 11/20/04 Result: <25 DL: 25 <DL: YES.
Spike Blank ID: B1 Date: " Result: 112 Spike: 130 %Rec.: 86.2
Duplicate ID: D1 Samp. Result: <25 Dup. Result: <25 %RPD: 0
MS ID: S1 Samp. Result: <25 MS Result: 106.4 Spike: 126.2 %Rec: 79.6

Method Blank ID: Date: Result: DL: <DL:
Spike Blank ID: Date: Result: Spike: %Rec.:
Duplicate ID: Samp. Result: Dup. Result: %RPD:
MS ID: S2 Samp. Result: MS Result: 99.9 Spike: 130 %Rec:

Analysis Batch QC Summary Units = mg/kg.

ICV (Ext): ~~11/20~~ 11/20/04 Result: 4.14 TV: 4.0 %Rec: 103.5

CCV: Result: 4.28 TV: 4.0 %Rec.: 107.0
CCV: Result: 4.28 TV: 4.0 %Rec.: 107.0
CCV: Result: 4.28 TV: 4.0 %Rec.: 107.0
CCV: J Result: 4.29 TV: 4.0 %Rec.: 107.3
CCV: Result: TV: %Rec.:
CCV: Result: TV: %Rec.:

CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:

Reagent Reference Numbers:

See attached

Freon Manufacturer: Lot Number:
Sodium Sulfate Manufacturer: Lot Number:
Silica Gel Manufacturer: Lot Number:

Analyst: [signature] Date: 11/20/04

Comments:

Form: GN-109-01
Rev. Date:2/15/99

ACCUTEST. GN 73991

Reagent Information Log - PHC

Reagent	Reagent/#_or_Manufacturer/Lot	Exp_Date
Fluorocarbon - 113	Virgin 4002809	NA
Spike Solution	GNE11-7141-PHC	12/5/04
Sodium Sulfate	EMD 44121428	NA
Hydromatrix	Varian 28204	NA
Silica Gel	Fisher 037259	NA
ICV	GNE10-7048-PHC	11/24/04
CCV	GNE10-7047-PHC	11/24/04

All standards and stocks were made as described in the SOP for this method (circle one) (Y) or N
If no (N), see attached page for standards prep

ACCUTEST.

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: TPHC

GN or GP Number: 73991

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume used in ml	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
DIL. STD STOCK	GNE10-7045-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04		
DIL. EXT STOCK	GNE10-7046-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04		

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
STD 1	GNE10-7047-PHC	1000 PPM	0.5	FREON	100ML	5.0	11/24/04		
STD 2			1.0			10.0			
STD 3			2.0			20.0			
STD 4			4.0			40.0			
STD 5			6.0			60.0			
STD 6			8.0			80.0			
EXT (ICV)	GNE10-7048-PHC		4.0			40.0			

Form: GN121

ACCUTEST

Prep Log - TPH

Test: **Petroleum Hydrocarbons**
Product: **PHC**
Method: **EPA 418.1 Mod**
Matrix: **Water**
Analytical wavenumber: **2924 cm-1**
Freon Used: midatlantic 400280a
Spike Lot #: gne11-7141-phc

Analyst: **HA**
GN Batch ID: GN73732
GP Batch ID: **GP26003**
Analysis Date: 11/12/04
Prep Date: **11/12/2004 15:36**

	BOT #	Sample ID	pH Check	Sample Vol (ml)	Dilution	Dilution Prep	Appearance	Odor
1		GP26003-MB1	LV	1000				
2		GP26003-B1	LV	1000				
3	V	GP26003-S1(n82903-1)	LV	930			clear, yellow	chemical
4		GP26003-D1(n82913-4a)	LV	970			clear, light yellow	chemical
5		N82692-1	*LV	990	1:50	0.50 mL → 25 mL freon	cloudy, orange brown w/ lots of particles	slight chemical
6		N82692-2 *	LV	1.00	1:5	5.0 mL → 25 mL freon	slightly cloudy, orange brown, oily	strong chemical
7	3	N82903-1 XX	LV	950			clear, yellow	chemical
8	V	N82913-4A XX	LV	990			clear, light yellow	chemical
9		N82923-1	LV	870			clear, dark yellow	chemical
10		N83004-7	LV	990			clear, colorless	none
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

XX - QC.

* pH adjusted to LV, see attached
* sample mixes w/ freon, took 1mL of sample → 90 mL freon

Spike Info: 1.0 mL of 1.50 mg/mL

Analyst: Helen B Akinyemi Date: 11/12/04 QC Reviewer: _____ Date: 11/15/04

Total Petroleum Hydrocarbon - Waters

Test Title: EPA 418.1
Analyst: HA
Prep Date: 11/12/2004 Analysis Date: 11/12/2004
GP Batch #: GP26003 GN Batch: GN73732

Corr. Coef: 0.9988657
Slope: 129.92357
Intercept: -0.782899

	Time	Sample #	X Values(abs)	Y Values Conc (mg/l)	Final Vol.	Sam Vol.	Dilution	Final Conc.	Units	DL	Factor
		Cal Blk	0	0.0							
		STD 1	0.043	5.00							
		STD 2	0.083	10.00							
		STD 3	0.157	20.00							
		STD 4	0.338	40.00							
		STD 5	0.463	60.00	Final Vol. (ml)	Sam Vol (ml)	Dilution	Final Conc.	Units	DL	Factor
		STD 6	0.613	80.00							
	22:39	ICV	0.339	43.26	NA	NA	NA	NA	mg/l	5.0	NA
	22:40	CCV	0.332	42.35	NA	NA	NA	NA	mg/l	5.0	NA
1. MB		GP26003-MB1	0.013	0.91	100.0	1000	1	0.09	mg/l	0.5	1
2. BS		GP26003-B1	0.094	11.43	100.0	1000	1	1.14	mg/l	0.5	1
3. MS		GP26003-S1	0.129	15.98	100.0	930	1	1.72	mg/l	0.5	1.075269
4. DUP		GP26003-D1	0.012	0.78	100.0	920	1	0.08	mg/l	0.5	1.086957
5		N82692-1	OVR	#VALUE!	100.0	990	1			0.5	1.010101
6		N82692-1	0.221	27.93	100.0	990	50	141.06	mg/l	0.5	1.010101
7		N82692-2	OVR	#VALUE!	100.0	1	1			0.5	1000
8		N82692-2	0.316	40.27	100.0	1	5	20136.47	mg/l	0.5	1000
9		N82903-1	0.043	4.80	100.0	950	1	0.51	mg/l	0.5	1.052632
10		N82913-4A	0.014	1.04	100.0	790	1	0.13	mg/l	0.5	1.265823
	20:55	CCV	0.336	42.87	NA	NA	NA	NA	mg/l	5.0	NA
11		N82923-1	0.036	3.89	100.0	820	1	0.47	mg/l	0.5	1.219512
12		N83004-7	0.008	0.26	100.0	990	1	0.03	mg/l	0.5	1.010101
13				#VALUE!	100.0	100	1			0.5	10
14				#VALUE!	100.0	1000	1			0.5	1
				#VALUE!	100.0	1000	1			0.5	1
				#VALUE!	100.0	1000	1			0.5	1
				#VALUE!	100.0	1000	1			0.5	1
18				#VALUE!	100.0	1000	1			0.5	1
19				#VALUE!	100.0	1000	1			0.5	1
20				#VALUE!	100.0	1000	1			0.5	1
	20:59	CCV	0.333	42.48	NA	NA	NA	NA	mg/l	5.0	NA
21				#VALUE!	100.0	1000	1			0.5	1
22				#VALUE!	100.0	1000	1			0.5	1
23				#VALUE!	100.0	1000	1			0.5	1
24				#VALUE!	100.0	1000	1			0.5	1
25				#VALUE!	100.0	1000	1			0.5	1
26				#VALUE!	100.0	1000	1			0.5	1
27				#VALUE!	100.0	1000	1			0.5	1
28				#VALUE!	100.0	1000	1			0.5	1
29				#VALUE!	100.0	1000	1			0.5	1
30				#VALUE!	100.0	1000	1			0.5	1
		CCV		#VALUE!	NA	NA	NA	NA		5.0	NA
31				#VALUE!	100.0	1000	1			0.5	1
32				#VALUE!	100.0	1000	1			0.5	1
33				#VALUE!	100.0	1000	1			0.5	1
34				#VALUE!	100.0	1000	1			0.5	1
35				#VALUE!	100.0	1000	1			0.5	1
36				#VALUE!	100.0	1000	1			0.5	1
37				#VALUE!	100.0	1000	1			0.5	1
38				#VALUE!	100.0	1000	1			0.5	1
39				#VALUE!	100.0	1000	1			0.5	1
40				#VALUE!	100.0	1000	1			0.5	1
		CCV		#VALUE!	NA	NA	NA	NA		5.0	NA
41				#VALUE!	100.0	1000	1			0.5	1
42				#VALUE!	100.0	1000	1			0.5	1
43				#VALUE!	100.0	1000	1			0.5	1
44				#VALUE!	100.0	1000	1			0.5	1

ACCUTEST.

Test: Petroleum Hydrocarbons
Product: PHC
Method: EPA 418.1

Units: mg/l

Analyst: HA
GNBatch ID: 73932
GPBatch ID: 26003
Date: 11/12/04

Preparation Batch QC Summary Units = mg/L

Method Blank ID: GP26003-MB1 Date: 11/12/04 Result: <0.50 DL: 0.50 <DL: yes
Spike Blank ID: -BS1 Date: ↓ Result: 1.14 Spike: 1.30 %Rec.: 87.7%
Duplicate ID: -DUP1 Samp. Result: <0.50 Dup. Result: <0.50 %RPD: 0%
MS ID: ↓ -MS1 Samp. Result: 0.51 MS Result: 1.72 Spike: 1.40 %Rec: 86.4%

Method Blank ID: _____ Date: _____ Result: _____ DL: _____ <DL: _____
Spike Blank ID: _____ Date: _____ Result: _____ Spike: _____ %Rec.: _____
Duplicate ID: _____ Samp. Result: _____ Dup. Result: _____ %RPD: _____
MS ID: _____ Samp. Result: _____ MS Result: _____ Spike: _____ %Rec: _____

Analysis Batch QC Summary Units = mg/mL

ICV (Ext): 11/12/04 Result: 4.33 TV: 4.00 %Rec: 108%

HA 11/12/04

CCV: ↓ Result: 4.234 TV: ↓ %Rec.: 106%
CCV: Result: 4.29 TV: %Rec.: 107%
CCV: Result: 4.25 TV: %Rec.: 106%
CCV: Result: TV: %Rec.:
CCV: Result: TV: %Rec.:
CCV: Result: TV: %Rec.:

CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:
CCB: Result: DL: <DL:

Reagent Reference Numbers:

see attached

Freon Manufacturer: _____ Lot Number: _____
Sodium Sulfate Manufacturer: _____ Lot Number: _____
Silica Gel Manufacturer: _____ Lot Number: _____

Analyst: Helen Rodriguez Date: 11/12/04

Comments: _____

Form: GN-109
Rev. Date:2/15/99

ACCUTEST.

DOCUMENTATION OF IMPROPER SAMPLE PRESERVATION

Sample Number	Test	measured pH/preservative	Added preservative	Final pH	Analyst (Initials)	Date
N82692-1	pHC	7.0	2.0 ml of conc. HCl	<2.0	HA	11/17/04

Form: GN-175
Rev. date:2/10/04

QC Review: 37

ACCUTEST.

GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product: TPHC

GN or GP Number: 73732

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock volume used in ml	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Expiration Date	Analyst	Date
DIL. STD STOCK	GNE10-7045-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	HA	11/17/04
DIL. EXT STOCK	GNE10-7046-PHC	10 000 PPM	10	FREON	100ml	1000 PPM	11/24/04	HA	11/17/04

Standard Description	Intermediate or Stock used to prepare standard	Intermediate or Stock concentration	Intermediate or Stock volume used in ml	Diluent	Final Volume	Final Conc. of Standard (mg/l)	Expiration Date	Analyst	Date
STD 1	GNE10-7047-PHC	1000 PPM	0.5	FREON	100ML	5.0	11/24/04	HA	11/17/04
STD 2			1.0			10.0			
STD 3			2.0			20.0			
STD 4			4.0			40.0			
STD 5			6.0			60.0			
STD 6			8.0			80.0			
EXT (ICV)	GNE10-7048-PHC		4.0			40.0			

ACCUTEST.

GN73732

Reagent Information Log - PHC

Reagent	Reagent#_or_Manufacturer/Lot	Exp_Date
Fluorocarbon - 113	MIDATLANTIC 400280A	NA
Spike Solution	GNE11-7141-PHC	12/5/04
Sodium Sulfate	EMD 44121428	NA
Hydromatrix	Varian 28204	NA
Silica Gel	Fisher 037259	NA
ICV	GNE10-7048-PHC	11/24/04
CCV	GNE10-7047-PHC	11/24/04

All standards and stocks were made as described in the SOP for this method (circle one) (Y) or N
If no (N), see attached page for standards prep

Appendix C

Well Records, Well Completion Details and Boring Logs

ARCADIS

Sample/Core Log

Boring/Well: Well AU | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000603.0001 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 11/9/2004 | Drilling Completed: 11/9/2004

Total Depth Drilled: 7.0 Feet | Hole Diameter: 12 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: 12 inch diameter vacuum extraction flex-pipe | Sampling Interval: NA feet

Land-Surface Elev.: ____ feet | [X] Surveyed [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: Water | Drilling Method: Vacuum Extraction

Drilling Contractor: Unitech Drilling and Jetline Services | Driller: Rich | Helper: Jim

Prepared By: Deric Kearns | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	4.0	--	--	--	SAND, medium, tan, some silt, moist, loose.
4.0	7.0	--	--	--	SAND, medium, tan, some silt, wet, strong hydrocarbon odor.
					Description of cuttings based on visual observations during vacuum extraction.
					Borehole completed as Monitoring Well AU.

ARCADIS

Sample/Core Log

Boring/Well: Well AV | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000603.0001 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 11/8/2004 | Drilling Completed: 11/8/2004

Total Depth Drilled: 10.0 Feet | Hole Diameter: 12 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: 12 inch diameter vacuum extraction flex-pipe | Sampling Interval: 3.5 - 4.0 feet

Land-Surface Elev.: _____ feet | [X] Surveyed [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: Water | Drilling Method: Vacuum Extraction

Drilling Contractor: Unitech Drilling and Jetline Services | Driller: Rich | Helper: Jim

Prepared By: Deric Kearns | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	4.0	--	--	--	SAND, medium, tan, some silt, moist, loose.
4.0	10.0	--	--	--	SAND, medium, tan, some silt, wet, moderate hydrocarbon odor.
					Description of cuttings based on visual observations during vacuum extraction.
					Borehole completed as Monitoring Well AV.

ARCADIS

Sample/Core Log

Boring/Well: Well AW | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000603.0001 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 11/8/2004 | Drilling Completed: 11/8/2004

Total Depth Drilled: 10.0 Feet | Hole Diameter: 12 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: 12 inch diameter vacuum extraction flex-pipe | Sampling Interval: 3.5 - 4.0 feet

Land-Surface Elev.: feet | [X] Surveyed | [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: Water | Drilling Method: Vacuum Extraction

Drilling Contractor: Unitech Drilling and Jetline Services | Driller: Rich | Helper: Jim

Prepared By: Deric Kearns | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	4.0	--	--	--	SAND, medium, tan, some silt, moist, loose.
4.0	10.0	--	--	--	SAND, medium, tan, some silt, wet, moderate hydrocarbon odor.
					Description of cuttings based on visual observations during vacuum extraction.
					Borehole completed as Monitoring Well AW.

ARCADIS

Sample/Core Log

Boring/Well: Well AY | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000603.0001 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 11/8/2004 | Drilling Completed: 11/8/2004

Total Depth Drilled: 9.0 Feet | Hole Diameter: 12 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: 12 inch diameter vacuum extraction flex-pipe | Sampling Interval: 3.5-4.0 / 9.0-9.5 feet

Land-Surface Elev.: ____ feet | [X] Surveyed [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: Water | Drilling Method: Vacuum Extraction

Drilling Contractor: Unitech Drilling and Jetline Services | Driller: Rich | Helper: Jim

Prepared By: Deric Kearns | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	4.0	--	--	--	SAND, medium, tan, some silt, moist, loose.
4.0	9.0	--	--	--	SAND, medium, tan, some silt, wet, no hydrocarbon odor.
					Description of cuttings based on visual observations during vacuum extraction.
					Borehole completed as Monitoring Well AY.

ARCADIS

Sample/Core Log

Boring/Well: Well AZ | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000603.0001 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 11/8/2004 | Drilling Completed: 11/8/2004

Total Depth Drilled: 10.0 Feet | Hole Diameter: 12 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: 12 inch diameter vacuum extraction flex-pipe | Sampling Interval: 3.5 - 4.0 feet

Land-Surface Elev.: ____ feet | [X] Surveyed | [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: Water | Drilling Method: Vacuum Extraction

Drilling Contractor: Unitech Drilling and Jetline Services | Driller: Rich | Helper: Jim

Prepared By: Deric Kearns | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	4.0	--	--	--	SAND, medium, tan, some silt, moist, loose.
4.0	10.0	--	--	--	SAND, medium, tan, some silt, wet, no hydrocarbon odor.
					Description of cuttings based on visual observations during vacuum extraction.
					Borehole completed as Monitoring Well AZ.

ARCADIS

Sample/Core Log

Boring/Well: Well X | Project/No.: PSEG Nuclear, LLC Salem Generrating Station/NP000571.0002 | Page: 1 of 1

Site Location: Artificial Island, Hancock's Bridge, New Jersey | Drilling Started: 6/11/2003 | Drilling Completed: 6/11/2003

Total Depth Drilled: 10.0 Feet | Hole Diameter: 8 inches | Type of Sample/ Coring Device: NA

Length and Diameter of Coring Device: NA | Sampling Interval: NA feet

Land-Surface Elev.: 99.39 feet [X] Surveyed [ ] Estimated | Datum: Plant Datum

Drilling Fluid Used: None | Drilling Method: Vacuum Excavation

Drilling Contractor: CT&E Environmental Services, Inc. | Driller: Jeff | Helper: NA

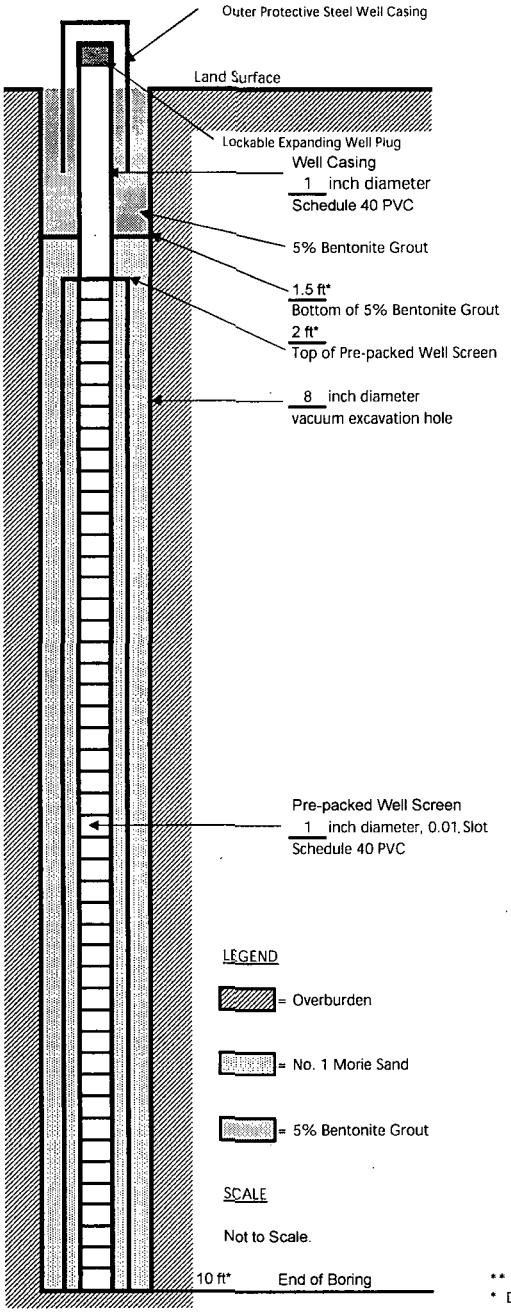
Prepared By: Jon Rutledge | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Blow Counts	PID Reading (ppm)	Sample/Core Description
0.0	10.0	--	--	--	Borehole advanced to 10.0 feet below ground surface using vacuum excavation.
					A sample/core desription was unable to be observed due to
					the nature of the vacuum excavation process.
10.0					End of boring. Boring completed as Monitoring Well X.

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well X

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.: 3400007018

Land-Surface Elevation: 9.17 feet [X] Surveyed

Top-of-Casing Elevation: 8.82 feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): June 11, 2003

Drilling Method: Vacuum Excavation

Drilling Contractor: CT&E Environmental Services, Inc

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Peristaltic pump on June 11, 2003. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: 5 gallons

Static Depth to Water: 8.7 feet below M.P.**

Pumping Depth to Water: NA feet below M.P.**

Pumping Duration: 0.2 hours

Yield: NA gpm Date: NA

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to monitor groundwater quality.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

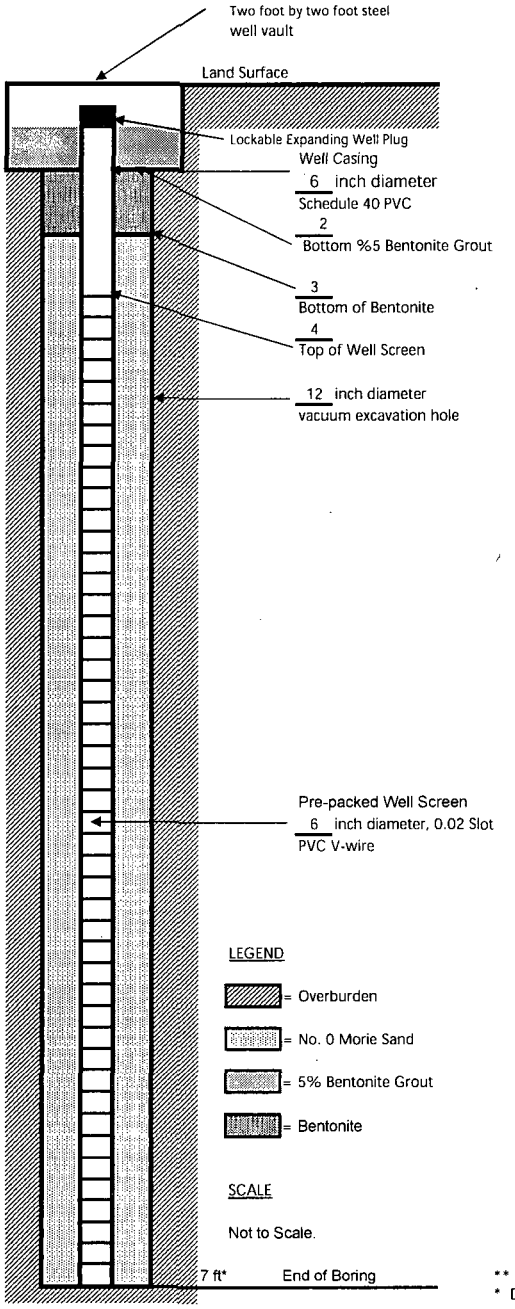
Prepared by: Jon Rutledge

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well AU

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.: 3400007375

Land-Surface Elevation: 9.44 feet [X] Surveyed

Top-of-Casing Elevation: 8.46 feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): November 9, 2004

Drilling Method: Vacuum Excavation

Drilling Contractor: Uni - Tech Drilling Co., Inc.

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Surge block and submerisble pump on November 10, 2004. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: ~10 gallons

Static Depth to Water: 5.21 feet below M.P.**

Pumping Depth to Water: NA feet below M.P.**

Pumping Duration: 0.2 hours

Yield: NA gpm Date: 11/10//04

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to facilitate separate phase product recovery.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

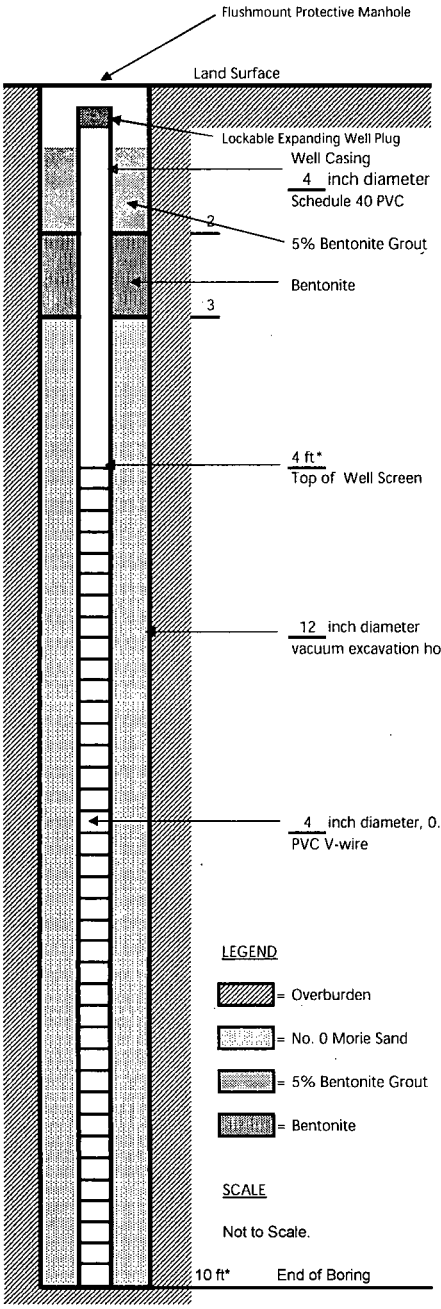
Prepared by: Deric Kearns

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well AV

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.:

Land-Surface Elevation: ____ feet [X] Surveyed

Top-of-Casing Elevation: ____ feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): November 8, 2004

Drilling Method: Vacuum Excavation

Drilling Contractor: Uni-Tech Drilling Co., Inc.

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Surge block and submerisble pump on November 10, 2004. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: 15 gallons

Static Depth to Water: 5.36 feet below M.P.**

Pumping Depth to Water: 9.0 feet below M.P.**

Pumping Duration: 0.25 hours

Yield: NA gpm Date: November 10, 2004

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to monitor groundwater quality.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

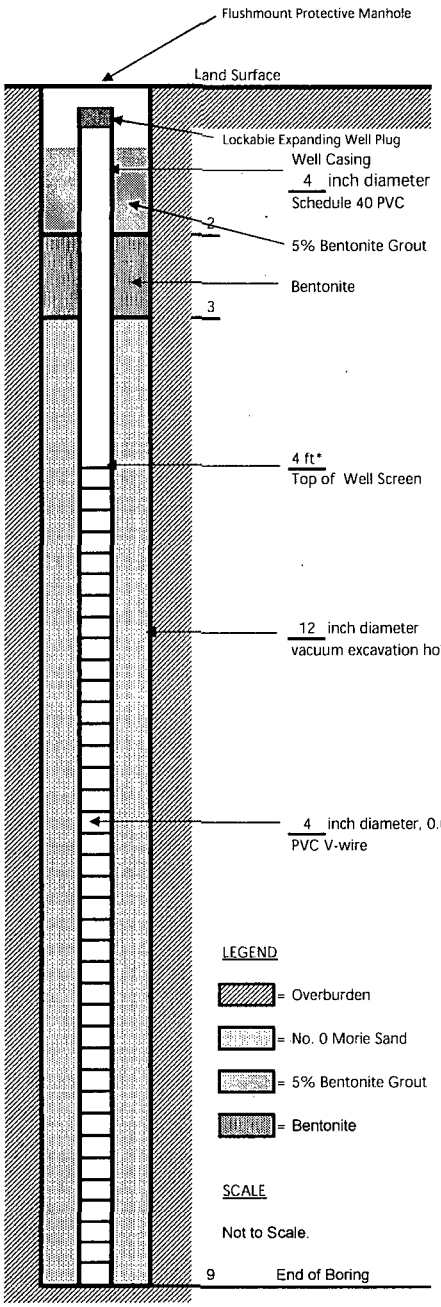
Prepared by: Deric Kearns

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well AW

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.:

Land-Surface Elevation: ____ feet [X] Surveyed

Top-of-Casing Elevation: ____ feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): November 8, 2004

Drilling Method: Vacuum Excavation

Drilling Contractor: Uni-Tech Drilling Co., Inc.

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Surge block and submerisble pump on November 10, 2004. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: ~22 gallons

Static Depth to Water: 5.42 - Product / 6.60 - Water feet below M.P.**

Pumping Depth to Water: 9.0 feet below M.P.**

Pumping Duration: 0.25 hours

Yield: NA gpm Date: November 10, 2004

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to monitor groundwater quality.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

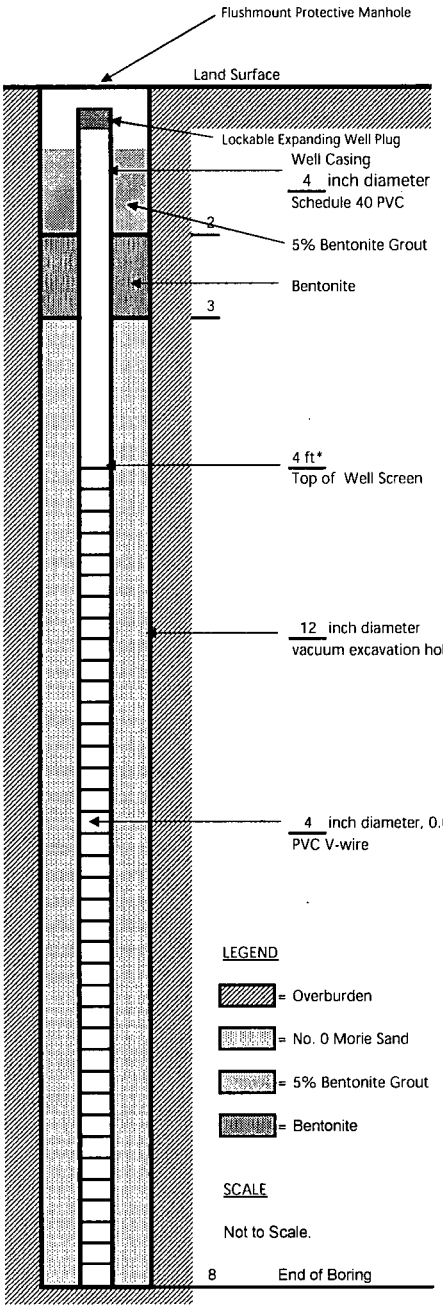
Prepared by: Deric Kearns

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well AY

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.:

Land-Surface Elevation: ____ feet [X] Surveyed

Top-of-Casing Elevation: ____ feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): November 8, 2004

Drilling Method: Vacuum Excavation

Drilling Contractor: Uni-Tech Drilling Co., Inc.

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Surge block and submerisble pump on November 10, 2004. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: ~15 gallons

Static Depth to Water: 5.51 feet below M.P.**

Pumping Depth to Water: 9.0 feet below M.P.**

Pumping Duration: 0.25 hours

Yield: NA gpm Date: November 10, 2004

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to monitor groundwater quality.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

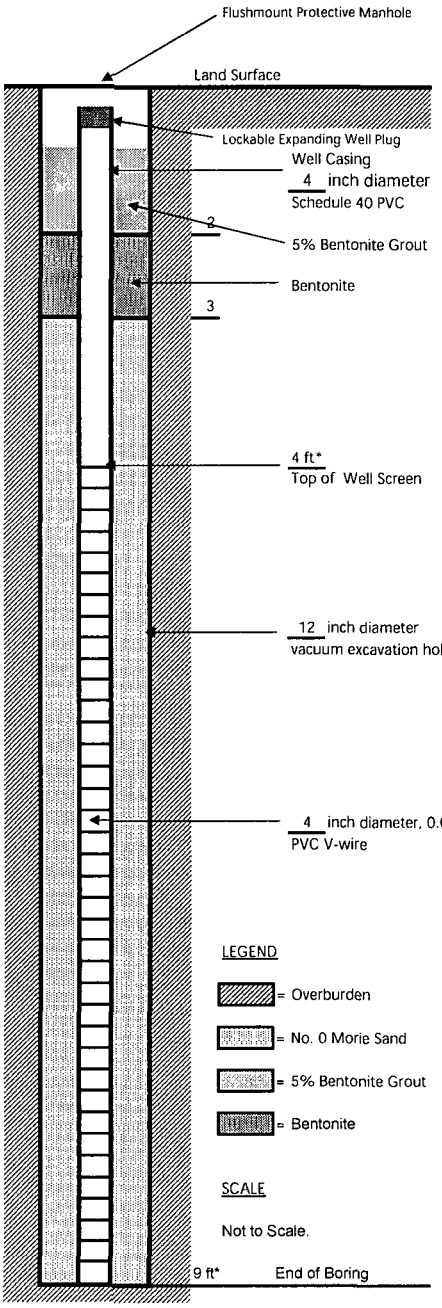
Prepared by: Deric Kearns

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

ARCADIS

Well Construction Log

(Unconsolidated)



Well Identification: Well AZ

Project/No.: PSEG Nuclear, LLC - Salem Generating Station/NP000603.0001

Site Location: Salem Generating Station - Artificial Island

Town/City: Hancock's Bridge

County: Salem State: New Jersey

Permit No.:

Land-Surface Elevation: ____ feet [X] Surveyed

Top-of-Casing Elevation: ____ feet [ ] Estimated

Datum: NAVD 1988

Installation Date(s): November 8, 2004

Drilling Method: Vacuum Excavation

Drilling Contractor: Uni-Tech Drilling Co., Inc.

Drilling Fluid: Not Applicable (NA)

Development Technique(s) and Date(s): Surge block and submerisble pump on November 10, 2004. Development was considered complete when turbidity in discharge was reduced/eliminated.

Fluid Loss During Drilling: 0 gallons

Water Removed During Development: ~20 gallons

Static Depth to Water: 5.21 feet below M.P.**

Pumping Depth to Water: 9.0 feet below M.P.**

Pumping Duration: 0.5 hours

Yield: NA gpm Date: November 10, 2004

Specific Capacity: NA gpm/ft

Well Purpose: Well installed to monitor groundwater quality.

Remarks: Due to extensive underground utilities within the location of the monitoring well, vacuum excavation equipment was used to advance the well boring.

Prepared by: Deric Kearns

** M.P. Measuring Point. Top of 2-inch PVC well casing unless otherwise noted.
* Depth Below Land Surface

Appendix D

Monitoring Well Form Bs

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: _____ SRP Case No.: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Owners Well Number (As shown on application or plans) MW-AU

Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 11.06" Latitude: North 39° 27' 45.45"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,867.61 East 199,525.52

Elevation of Top of Inner Casing (Cap off) at Reference mark (to nearest 0.01' in relation to permanent on-site datum) Rim 99.36 PVC 98.38

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false, inaccurate, and incomplete information and that I am committing a crime in the fourth degree if I make a false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE 12/10/04 DATE

RICHARD C. MATHEWS GS29353

PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230

PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: SRP Case No.:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
This number must be permanently affixed to the well casing.
Owners Well Number (As shown on application or plans) MW-AW
Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 11.17" Latitude: North 39° 27' 45.15"
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,837.74 East 199,516.37
Elevation of Top of Inner Casing (Cap off) at
Reference mark (to nearest 0.01' in relation to permanent
on-site datum) Rim 99.40 PVC 99.08

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes:

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false, inaccurate, and incomplete information and that I am committing a crime in the fourth degree if I make a false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE 12/10/04 DATE

RICHARD C. MATHEWS GS29353
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: _____ SRP Case No.: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Owners Well Number (As shown on application or plans) MW-AV

Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 11.76" Latitude: North 39° 27' 45.08"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,831.11 East 199,469.71

Elevation of Top of Inner Casing (Cap off) at Reference mark (to nearest 0.01' in relation to permanent on-site datum) Rim 99.09 PVC 98.74

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes: _____

AUTHENTICATION

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SEAL

Richard C Martin

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/10/04
DATE

RICHARD C. MATHEWS GS29353
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: _____ SRP Case No.: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Owners Well Number (As shown on application or plans) MW-AY

Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 11.10" Latitude: North 39° 27' 44.84"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,805.92 East 199,521.42

Elevation of Top of Inner Casing (Cap off) at Reference mark (to nearest 0.01' in relation to permanent on-site datum) Rim 99.32 PVC 98.96

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes: _____

AUTHENTICATION

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SEAL

Richard C Mathews

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/10/04
DATE

RICHARD C. MATHEWS GS29353
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: _____ SRP Case No.: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Owners Well Number (As shown on application or plans) MW-AZ

Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 10.72" Latitude: North 39° 27' 44.43"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,764.41 East 199,551.16

Elevation of Top of Inner Casing (Cap off) at Reference mark (to nearest 0.01' in relation to permanent on-site datum) Rim 99.25 PVC 98.58

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes: _____

AUTHENTICATION

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SEAL

Richard C. Mathews

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/10/04
DATE

RICHARD C. MATHEWS GS29353

PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230

PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B
LOCATION CERTIFICATION

Name of Owner PSE&G Salem Generating Facility

Name of Facility PSE&G Salem Generating Facility

Location Lower Alloways Creek, Salem County

UST Number: _____ SRP Case No.: _____

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

This number must be permanently affixed to the well casing.

Owners Well Number (As shown on application or plans) MW-X

Geographic Coordinates NAD 83 (to the nearest 1/10 of second)

Longitude: West 75° 32' 10.68" Latitude: North 39° 27' 45.24"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 230,845.66 East 199,554.29

Elevation of Top of Inner Casing (Cap off) at Reference mark (to nearest 0.01' in relation to permanent on-site datum) Rim 99.09 PVC 98.74

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximate actual elevation. Please note that, if information from the well is to be submitted electronically, the EDSA manual specifies the well elevation to be reported according to NAVD 1988 to an accuracy of 0.2'.)

Site Monument N 5+0, E 2+0 Elevation 102.78 scaled actual elevation 10

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false, inaccurate, and incomplete information and that I am committing a crime in the fourth degree if I make a false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

SEAL

_____ 12/10/04

PROFESSIONAL LAND SURVEYOR'S SIGNATURE DATE

RICHARD C. MATHEWS GS29353

PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

43 WEST HIGH STREET, SOMERVILLE, NEW JERSEY 908 725 0230

PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

Appendix E

Groundwater Sampling Logs

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 Well ID Well X Date 12/13/2004

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. Weather Sunny

Measuring Pt. Description: TOC
Screen Setting (ft-bgs): 7.47 to -2.53
Casing Diameter (in.): 1
Well Material: X PVC ___ SS

Static Water Level (ft-bmp): 6.71
Total Depth (ft-bmp): 13.03
Water Column/ Gallons in Well: --

MP Elevation: 12.00
Pump Intake (ft-bmp): 10
Purge Method: Centrifugal ___ Submersible ___ Other Bladder
Sample Method: Low-flow

Pump On/Off: --
Volumes Purged: --

Sample Time: Label 17:15 Start ___ End ___
Replicate/ Code No.: Well AX

Sampled by R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
16:45	5	150	6.91	--	6.57	0.217	37.6	7.53	13.7	31.3	--	--
16:50	10	125	7.01	--	6.49	0.217	15.6	6.63	14.32	34.4	--	--
16:55	15	125	7.08	--	6.47	0.217	12.7	6.16	14.44	32.6	--	--
17:00	20	125	7.14	--	6.45	0.218	11.0	5.74	14.34	28.7	--	--
17:05	25	100	7.16	--	6.43	0.219	10.5	5.46	14.29	24.9	--	--
17:10	30	100	7.18	--	6.42	0.219	12.8	5.29	14.19	22.6	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	6	Hcl
SVOCs by 8270	1 liter amber	4	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AV | Date 12/13/2004

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Overcast

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.17 to -0.83 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.49 | Total Depth (ft-bmp): 9.66 | Water Column/ Gallons in Well: --

MP Elevation: 9.17 | Pump Intake (ft-bmp): 7 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: -- | Sample Time: Label 15:35, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
15:08	8	75	4.51	--	6.71	0.278	89.8	8.09	10.61	-26.5	--	--
15:13	13	75	4.51	--	6.62	0.270	88.6	5.73	11.09	-26.8	--	--
15:18	18	75	4.51	--	6.60	0.267	85.3	4.38	11.4	-27.2	--	--
15:23	23	75	4.51	--	6.59	0.265	81.2	3.69	11.47	-27.8	--	--
15:28	28	75	4.51	--	6.59	0.266	78.3	3.51	11.35	-28.7	--	--
15:33	33	75	4.51	--	6.60	0.265	75.7	3.40	11.24	-29.0	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AY | Date 12/13/2004

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Sunny

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.40 to 1.40 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.39 | Total Depth (ft-bmp): 7.30 | Water Column/ Gallons in Well: --

MP Elevation: 9.04 | Pump Intake (ft-bmp): 6.50 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: --

Sample Time: Label 13:55, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:48	5	--	4.39	--	7.06	0.572	88.0	9.46	11.42	154.3	--	--
12:53	10	75	4.40	--	7.07	1.067	87.5	8.37	11.49	154.8	--	--
12:58	15	50	4.40	--	7.06	1.063	88.3	8.22	11.2	141.2	--	--
13:03	20	75	4.41	--	7.06	1.052	89.0	8.15	10.82	119.4	--	--
13:08	25	75	4.41	--	7.06	1.034	88.1	8.17	10.54	81.7	--	--
13:13	30	75	4.41	--	7.06	1.019	87.8	8.28	10.54	63.2	--	--
13:18	35	75	4.41	--	7.04	0.995	84.8	8.50	10.61	48.7	--	--
13:23	40	75	4.42	--	7.04	0.974	80.0	8.71	10.63	41.5	--	--
13:28	45	75	4.42	--	7.04	0.953	72.5	8.94	10.72	58.0	--	--
13:33	50	75	4.42	--	7.04	0.951	71.6	8.95	10.74	50.1	--	--
13:38	55	75	4.43	--	7.04	0.950	70.8	8.96	10.65	42.2	--	--
13:43	60	75	4.43	--	7.04	0.949	66.9	8.97	10.63	32.6	--	--
13:48	65	75	4.43	--	7.04	0.951	63.7	8.93	10.56	26.9	--	--
13:53	70	75	4.43	--	7.05	0.952	61.5	8.92	10.74	23.6	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	6	Hcl
SVOCs by 8270	1 liter amber	4	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AZ | Date 12/10/2004

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Light Rain

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.33 to 0.33 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.09 | Total Depth (ft-bmp): 9.07 | Water Column/ Gallons in Well: --

MP Elevation: 8.66 | Pump Intake (ft-bmp): 6.50 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: -- | Sample Time: Label, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:55	5	250	4.20	--	6.58	0.566	104.7	7.71	14.35	148.8	--	--
14:00	10	250	4.26	--	6.61	0.453	93.0	7.31	14.42	129.0	--	--
14:05	15	150	4.26	--	6.52	0.453	77.3	7.15	14.3	138.8	--	--
14:10	20	150	4.26	--	6.55	0.454	75.0	7.13	14.24	136.0	--	--
14:15	25	150	4.26	--	6.56	0.457	62.8	7.04	14.26	137.0	--	--
14:20	30	150	4.26	--	6.56	0.458	59.5	6.96	14.25	142.1	--	--
14:25	35	150	4.26	--	6.60	0.460	56.4	6.89	14.33	137.5	--	--
14:30	40	150	4.26	--	6.59	0.461	53.5	6.84	14.28	142.4	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well X | Date 3/15/2005

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Sunny 30s

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 7.47 to -2.53 | Casing Diameter (in.): 1 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 8.02 | Total Depth (ft-bmp): 13.03 | Water Column/ Gallons in Well: --

MP Elevation: 12.00 | Pump Intake (ft-bmp): 10.5 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: --

Sample Time: Label 13:12, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
12:09	5	200	8.25	--	6.91	0.379	+999	15.38	10.23	163	lt brown	--
12:14	10	200	8.46	--	6.68	0.379	690	14.07	10.02	120	lt brown	--
12:19	15	200	8.56	--	6.59	0.373	130	12.97	10.12	121	lt brown	--
12:24	20	200	8.64	--	6.56	0.374	71	12.2	10.18	108	clear	--
12:29	25	200	8.70	--	6.54	0.391	51	11.47	10.24	96	clear	--
12:34	30	200	8.75	--	6.53	0.428	50	11.00	10.28	83	clear	--
12:39	35	200	8.79	--	6.52	0.477	36	10.45	10.3	56	clear	--
12:44	40	200	8.85	--	6.51	0.496	32	10.29	10.32	37	clear	--
12:49	45	200	8.89	--	6.51	0.494	34	9.80	10.28	26	clear	--
12:54	50	200	8.96	--	6.52	0.496	41	9.55	10.27	16	clear	--
12:59	55	200	9.03	--	6.52	0.497	56	9.48	10.38	10	clear	--
13:04	60	200	9.25	--	6.52	0.496	60	9.77	10.44	5.0	clear	--
13:09	65	200	9.34	--	6.52	0.499	61	9.36	10.59	6.0	clear	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AV | Date 3/15/2005

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Sunny 30s

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.17 to -0.83 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.88 | Total Depth (ft-bmp): 9.66 | Water Column/ Gallons in Well: --

MP Elevation: 9.17 | Pump Intake (ft-bmp): 7.5 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: --

Sample Time: Label 14:25, Start, End | Replicate/ Code No.: Well AVD | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
13:53	5	250	4.93	--	6.33	0.365	41	4.27	7.74	-50	--	--
13:58	10	250	4.93	--	6.3	0.364	19	9.18	7.72	-57	--	--
14:03	15	250	4.95	--	6.31	0.357	120	4.13	7.76	-62	--	--
14:08	20	250	4.95	--	6.31	0.364	400	3.88	7.74	-66	--	--
14:13	25	250	4.95	--	6.31	0.369	4.8	3.84	7.78	-70	--	--
14:18	30	250	4.96	--	6.32	0.369	3.7	4.20	7.74	-72	--	--
14:23	35	250	4.96	--	6.32	0.367	3.1	4.22	7.79	-76	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AY | Date 3/15/2005

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Sunny 30s

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.40 to 1.40 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.39 | Total Depth (ft-bmp): 7.30 | Water Column/ Gallons in Well: --

MP Elevation: 9.04 | Pump Intake (ft-bmp): 6.50 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: -- | Sample Time: Label 11:00, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
9:50	5	250	4.9	--	6.60	5.41	640.0	18.21	6.33	172	lt brown	--
9:55	10	250	4.94	--	6.87	5.35	650	17.43	6.27	171	lt brown	--
10:00	15	250	4.96	--	7.00	5.24	520	17.31	6.25	172	lt brown	--
10:05	20	250	4.98	--	7.07	5.16	420.0	17.17	6.26	173	lt brown	--
10:10	25	250	4.99	--	7.13	5.1	330	16.97	6.24	173	lt brown	--
10:15	30	250	5.01	--	7.19	5.02	250	16.42	6.32	173	lt brown	--
10:20	35	250	5.02	--	7.22	4.98	200	16.32	6.32	173	lt brown	--
10:25	40	250	5.03	--	7.25	4.95	130.0	15.09	6.33	172	lt brown	--
10:30	45	250	5.04	--	7.28	4.91	90	15.95	6.33	171.0	lt brown	--
10:35	50	250	5.06	--	7.3	4.88	51	15.8	6.36	170	clear	--
10:40	55	250	5.07	--	7.31	4.860	26	15.69	6.37	169	clear	--
10:45	60	250	5.08	--	7.32	4.84	10	15.64	6.42	167	clear	--
10:50	65	250	5.09	--	7.34	4.82	3	15.29	6.47	167	clear	--
10:55	70	250	5.10	--	7.34	4.80	1.5	15.76	6.48	166	clear	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Groundwater Sampling Form

Project No. NP000603.0001.00004 | Well ID Well AZ | Date 3/15/2005

Project Name/Location PSEG Nuclear, LLC, Salem Generating Station, Hancock's Bridge, New Jersey. | Weather Sunny 30s

Measuring Pt. Description: TOC | Screen Setting (ft-bgs): 5.33 to 0.33 | Casing Diameter (in.): 4 | Well Material: X PVC, SS

Static Water Level (ft-bmp): 4.18 | Total Depth (ft-bmp): 9.07 | Water Column/ Gallons in Well: --

MP Elevation: 8.66 | Pump Intake (ft-bmp): 6.50 | Purge Method: Centrifugal, Submersible, Other: Bladder | Sample Method: Low-flow

Pump On/Off: -- | Volumes Purged: -- | Sample Time: Label 9:05, Start, End | Replicate/ Code No.: -- | Sampled by: R. McKinney

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox (mV)	Appearance	
											Color	Odor
8:25	5	225	4.28	--	5.66	1.12	5.0	15.84	7.84	247	--	--
8:30	10	225	Recalibrated water quality meter due to high DO readings								--	--
8:35	15	225	4.38	--	5.34	1.15	1.5	17.16	7.76	256	--	--
8:40	20	225	4.42	--	5.8	1.13	1.5	16.46	8	244	--	--
8:45	25	225	4.41	--	5.86	1.11	2.0	17.54	7.65	238	--	--
8:50	30	225	4.46	--	5.89	1.11	1.5	17.08	7.93	236	--	--
8:55	35	225	4.49	--	5.91	1.12	1.5	16.72	7.96	237	--	--
9:00	40	225	4.5	--	5.93	1.12	1.5	16.79	8.01	237	--	--

Constituents Sampled	Container	Number	Preservative
VOCs by 8260	40 ml VOA	3	Hcl
SVOCs by 8270	1 liter amber	2	--

Well Casing Volumes

Gallons/Foot: 1" = 0.04; 1.25" = 0.06; 1.5" = 0.09; 2" = 0.16; 2.5" = 0.26; 3" = 0.37; 3.5" = 0.50; 4" = 0.65; 6" = 1.47

Well Information

Well Location:	Adjacent to Unit One Reactor	Well Locked at Arrival:	Yes
Condition of Well:	Good	Well Locked at Departure:	Yes
Well Completion:	Flush Mount	Key Number To Well:	American Lock

ARCADIS

Appendix F

Groundwater Analytical Results

December 2004 & March 2005

New Jersey
ACCUTEST.
Laboratories

01/07/05

Technical Report for

Arcadis Geraghty & Miller

PSEG-Salem, Artificial Island, Salem, NJ

NP000571

Accutest Job Number: N85893

Sampling Date: 12/10/04

Report to:

Arcadis Geraghty & Miller
6 Terry Drive
Newtown, PA 18940

ATTN: Brad Pierce

Total number of pages in report: 98

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Sample Summary

Arcadis Geraghty & Miller

Job No: N85893

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
N85893-1	12/10/04	00:00	RPM	12/13/04	AQ	Ground Water	WELL AZ
N85893-2	12/10/04	00:00	RPM	12/13/04	AQ	Field Blank Water	FB-1
N85893-3	12/10/04	00:00	RPM	12/13/04	AQ	Trip Blank Water	TRIP BLANK

ACCUTEST

Table Of Contents
Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

RESULTS

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL AZ		
Lab Sample ID:	N85893-1	**Date Sampled:**	12/10/04
Matrix:	AQ - Ground Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C1396.D	1	12/19/04	KNV	n/a	n/a	V2C63
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AZ		
Lab Sample ID:	N85893-1	**Date Sampled:**	12/10/04
Matrix:	AQ - Ground Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-119%
17060-07-0	1,2-Dichloroethane-D4	96%		68-129%
2037-26-5	Toluene-D8	88%		83-118%
460-00-4	4-Bromofluorobenzene	106%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AZ		
Lab Sample ID:	N85893-1	**Date Sampled:**	12/10/04
Matrix:	AQ - Ground Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47282.D	1	12/31/04	NAP	12/14/04	OP19011	EF2503
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

7

Report of Analysis

Client Sample ID:	WELL AZ		
Lab Sample ID:	N85893-1	**Date Sampled:**	12/10/04
Matrix:	AQ - Ground Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-88%
4165-62-2	Phenol-d5	28%		10-71%
118-79-6	2,4,6-Tribromophenol	86%		45-134%
4165-60-0	Nitrobenzene-d5	70%		32-128%
321-60-8	2-Fluorobiphenyl	66%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AZ		
Lab Sample ID:	N85893-1	**Date Sampled:**	12/10/04
Matrix:	AQ - Ground Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	84%		41-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N85893-2	**Date Sampled:**	12/10/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C1397.D	1	12/19/04	KNV	n/a	n/a	V2C63
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

10

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N85893-2	**Date Sampled:**	12/10/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-119%
17060-07-0	1,2-Dichloroethane-D4	97%		68-129%
2037-26-5	Toluene-D8	89%		83-118%
460-00-4	4-Bromofluorobenzene	105%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N85893-2	**Date Sampled:**	12/10/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47283.D	1	12/31/04	NAP	12/14/04	OP19011	EF2503
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated val
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N85893-2	**Date Sampled:**	12/10/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-88%
4165-62-2	Phenol-d5	34%		10-71%
118-79-6	2,4,6-Tribromophenol	89%		45-134%
4165-60-0	Nitrobenzene-d5	85%		32-128%
321-60-8	2-Fluorobiphenyl	79%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	N85893-2	**Date Sampled:**	12/10/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/13/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		41-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N85893-3	**Date Sampled:**	12/10/04
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C1398.D	1	12/19/04	KNV	n/a	n/a	V2C63
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N85893-3	**Date Sampled:**	12/10/04
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-119%
17060-07-0	1,2-Dichloroethane-D4	96%		68-129%
2037-26-5	Toluene-D8	90%		83-118%
460-00-4	4-Bromofluorobenzene	105%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

CHAIN OF CUSTODY

ACCUTEST Laboratories
2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: M85893

Client / Reporting Information

Company Name: Arcadis
Address: 6 Terry Drive Suite 300
City: Newtown State: PA Zip: 18940
Project Contact: Brad Pierce E-mail: bpierce@arcadis-us.com
Phone #: 267-685-1800 Fax #: 267-685-1801
Sampler's Name: Ryan McKinney

Project Information

Project Name: PSEG
Street:
City: State:
Project #:
Client Purchase Order #:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles: HCl	MeOH	HNO3	H2SO4	NONE	NaHSO4	MeOH	ENCORE	8260 BTEX	624 MTBE	8021 624 MTBE	602 NAP	PALG	8260 624 TBA	624 NAP	PPL +10	STARS MTBE	TCL +15	8270 625 ABN	625 PAH	PPL PADF	STARS +NO3	TCL	VOC 8260B	SVOC 8270C	LAB USE ONLY
-1	Well AZ		12/10/24		RDM	GW	5	3				2																			X	X	22591
-2	FB-1		↓		RDM	—	5	3				2																			X	X	22592
-3	Trip Blnk		↓		—	—	2	2				2																			X		

Turnaround Time (Business Days)

- ☐ Std. 15 Business Days
- ☐ 10 Day *RUSH*
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*
- ☐ Other: 0

Approved By: / Date:

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other _____
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format _____

Commercial "A" = Results Only

Comments / Remarks

TB Filled in lab at 0830

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1		12-10-24 1830	FedX	2 FedX	12/10/24 @ 1000	2
3		Date Time:	Received by:	6	Date Time:	4
5		Date Time:	Received by:	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 3.8

1A

Internal Sample Tracking Chronicle

Arcadis Geraghty & Miller

Job No: N85893

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
N85893-1 Collected: 10-DEC-04 00:00 By: RPM Received: 13-DEC-04 By: MP WELL AZ						
N85893-1	SW846 8260B	19-DEC-04 20:42	KNV			V8260TCL
N85893-1	SW846 8270C	31-DEC-04 06:05	NAP	14-DEC-04	VDT	AB8270TCL
N85893-2 Collected: 10-DEC-04 00:00 By: RPM Received: 13-DEC-04 By: MP FB-1						
N85893-2	SW846 8260B	19-DEC-04 21:13	KNV			V8260TCL
N85893-2	SW846 8270C	31-DEC-04 06:41	NAP	14-DEC-04	VDT	AB8270TCL
N85893-3 Collected: 10-DEC-04 00:00 By: RPM Received: 13-DEC-04 By: MP TRIP BLANK						
N85893-3	SW846 8260B	19-DEC-04 21:44	KNV			V8260TCL

GC/MS

VOLATILE

ACCUTEST

GC/MS Analysis Case Narrative/Conformance/Non-Conformance Summary

Fraction Volatile

	NO	YES
1. Chromatograms Labeled/Compounds Identified *(Field Samples and Method Blanks)*		✓
2. GC/MS Tune Meet Criteria		✓
3. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series.		✓
4. GC/MS Calibration – Initial and Continuing Calibration Meet Method Requirements		✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds		✓
b. System Performance Check Compounds		✓
6. Blank Contamination	✓	
If yes, the sample result is qualified with a "B".		
7. Surrogate Recoveries Meet Criteria		✓
If the requirement is not met, refer to the Surrogate Summary for comment.		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓
If the requirement is not met, refer to MS/MSD Summary for comment.		
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓
If the requirement is not met, refer to the Internal Standard Summary for comment.		
10. Extraction Holding Time Met		N/A
If the holding time is not met, refer to the Sample Result page for comment.		
11. Analysis Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		

12. Volatile Sample Preservation – pH should be < 2. *List any non-compliant samples below:*

Additional Comments:

QC Review Signature: Signature Fang Date: 1/6/05

Form: RG04
Rev. Date: 2/9/00

Method Blank Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2C63-MB1	2C1383.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: **Method:** SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2C63-MB1	2C1383.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: Method: SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	79-119%
17060-07-0	1,2-Dichloroethane-D4	98%	68-129%
2037-26-5	Toluene-D8	88%	83-118%
460-00-4	4-Bromofluorobenzene	105%	82-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2C63-BS	2C1384.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: **Method:** SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	41.6	83	53-153
71-43-2	Benzene	50	49.6	99	77-119
75-27-4	Bromodichloromethane	50	54.3	109	82-126
75-25-2	Bromoform	50	56.3	113	73-135
74-83-9	Bromomethane	50	55.4	111	61-138
78-93-3	2-Butanone (MEK)	50	50.9	102	58-142
75-15-0	Carbon disulfide	50	55.5	111	60-130
56-23-5	Carbon tetrachloride	50	60.2	120	72-140
108-90-7	Chlorobenzene	50	51.0	102	81-117
75-00-3	Chloroethane	50	56.8	114	69-135
67-66-3	Chloroform	50	53.5	107	80-122
74-87-3	Chloromethane	50	65.8	132	59-132
124-48-1	Dibromochloromethane	50	59.0	118	80-125
75-34-3	1,1-Dichloroethane	50	53.6	107	78-121
107-06-2	1,2-Dichloroethane	50	60.1	120	66-137
75-35-4	1,1-Dichloroethene	50	55.1	110	73-124
156-59-2	cis-1,2-Dichloroethene	50	47.8	96	76-120
156-60-5	trans-1,2-Dichloroethene	50	51.0	102	73-119
78-87-5	1,2-Dichloropropane	50	50.9	102	82-117
10061-01-5	cis-1,3-Dichloropropene	50	47.6	95	81-120
10061-02-6	trans-1,3-Dichloropropene	50	49.9	100	81-125
100-41-4	Ethylbenzene	50	51.7	103	79-120
591-78-6	2-Hexanone	50	44.6	89	66-140
108-10-1	4-Methyl-2-pentanone(MIBK)	50	51.6	103	70-134
75-09-2	Methylene chloride	50	55.6	111	75-122
100-42-5	Styrene	50	50.9	102	80-125
79-34-5	1,1,2,2-Tetrachloroethane	50	53.4	107	76-117
127-18-4	Tetrachloroethene	50	50.2	100	69-130
108-88-3	Toluene	50	47.4	95	81-120
71-55-6	1,1,1-Trichloroethane	50	53.5	107	77-132
79-00-5	1,1,2-Trichloroethane	50	49.5	99	85-117
79-01-6	Trichloroethene	50	51.9	104	83-119
75-01-4	Vinyl chloride	50	62.0	124	65-135
1330-20-7	Xylene (total)	150	150	100	81-119

Blank Spike Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2C63-BS	2C1384.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: **Method:** SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	79-119%
17060-07-0	1,2-Dichloroethane-D4	98%	68-129%
2037-26-5	Toluene-D8	91%	83-118%
460-00-4	4-Bromofluorobenzene	104%	82-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N85524-33MS	2C1401.D	1	12/19/04	KNV	n/a	n/a	V2C63
N85524-33MSD	2C1402.D	1	12/19/04	KNV	n/a	n/a	V2C63
N85524-33	2C1385.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: **Method:** SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Compound	N85524-33 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	45.2	90	46.2	92	2	47-163/22
71-43-2	Benzene	ND		50	48.6	97	49.5	99	2	51-138/10
75-27-4	Bromodichloromethane	ND		50	53.1	106	54.3	109	2	80-128/10
75-25-2	Bromoform	ND		50	54.5	109	54.8	110	1	68-137/10
74-83-9	Bromomethane	ND		50	51.8	104	51.0	102	2	61-141/17
78-93-3	2-Butanone (MEK)	ND		50	43.0	86	41.2	82	4	55-149/22
75-15-0	Carbon disulfide	ND		50	56.6	113	57.6	115	2	59-128/14
56-23-5	Carbon tetrachloride	ND		50	59.6	119	62.3	125	4	71-143/13
108-90-7	Chlorobenzene	ND		50	50.0	100	50.8	102	2	78-120/10
75-00-3	Chloroethane	ND		50	54.5	109	54.9	110	1	67-139/16
67-66-3	Chloroform	ND		50	53.2	106	53.9	108	1	78-126/11
74-87-3	Chloromethane	ND		50	57.0	114	55.7	111	2	57-134/17
124-48-1	Dibromochloromethane	ND		50	58.5	117	59.1	118	1	79-127/10
75-34-3	1,1-Dichloroethane	ND		50	53.5	107	54.3	109	1	75-125/11
107-06-2	1,2-Dichloroethane	ND		50	56.2	112	57.3	115	2	63-142/12
75-35-4	1,1-Dichloroethene	ND		50	55.5	111	57.0	114	3	69-129/12
156-59-2	cis-1,2-Dichloroethene	0.82	J	50	50.0	98	50.4	99	1	73-127/10
156-60-5	trans-1,2-Dichloroethene	ND		50	50.5	101	50.9	102	1	71-123/11
78-87-5	1,2-Dichloropropane	ND		50	50.0	100	51.3	103	3	81-120/10
10061-01-5	cis-1,3-Dichloropropene	ND		50	44.2	88	45.6	91	3	78-121/10
10061-02-6	trans-1,3-Dichloropropene	ND		50	45.9	92	47.4	95	3	77-128/11
100-41-4	Ethylbenzene	ND		50	49.9	100	51.0	102	2	51-142/11
591-78-6	2-Hexanone	ND		50	43.5	87	44.2	88	2	64-145/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	48.7	97	49.3	99	1	66-140/12
75-09-2	Methylene chloride	ND		50	54.5	109	55.4	111	2	73-126/10
100-42-5	Styrene	ND		50	47.2	94	48.7	97	3	79-130/10
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	51.0	102	51.9	104	2	74-121/10
127-18-4	Tetrachloroethene	ND		50	49.7	99	51.2	102	3	70-128/12
108-88-3	Toluene	ND		50	45.3	91	47.7	95	5	49-147/10
71-55-6	1,1,1-Trichloroethane	ND		50	53.5	107	54.8	110	2	74-136/13
79-00-5	1,1,2-Trichloroethane	ND		50	49.0	98	50.0	100	2	83-121/10
79-01-6	Trichloroethene	ND		50	51.5	103	53.1	106	3	75-128/10
75-01-4	Vinyl chloride	ND		50	59.4	119	59.3	119	0	60-141/16
1330-20-7	Xylene (total)	ND		150	146	97	151	101	3	44-146/11

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N85524-33MS	2C1401.D	1	12/19/04	KNV	n/a	n/a	V2C63
N85524-33MSD	2C1402.D	1	12/19/04	KNV	n/a	n/a	V2C63
N85524-33	2C1385.D	1	12/19/04	KNV	n/a	n/a	V2C63

The QC reported here applies to the following samples: **Method:** SW846 8260B

N85893-1, N85893-2, N85893-3

CAS No.	Surrogate Recoveries	MS	MSD	N85524-33	Limits
1868-53-7	Dibromofluoromethane	103%	102%	100%	79-119%
17060-07-0	1,2-Dichloroethane-D4	95%	95%	97%	68-129%
2037-26-5	Toluene-D8	90%	92%	88%	83-118%
460-00-4	4-Bromofluorobenzene	103%	104%	106%	82-120%

Instrument Performance Check (BFB)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	V2C1-BFB	**Injection Date:**	11/15/04
Lab File ID:	2C0021.D	**Injection Time:**	13:30
Instrument ID:	GCMS2C		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2341	17.2		Pass
75	30.0 - 60.0% of mass 95	6185	45.3		Pass
95	Base peak, 100% relative abundance	13642	100.0		Pass
96	5.0 - 9.0% of mass 95	1065	7.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	14402	105.6		Pass
175	5.0 - 9.0% of mass 174	1049	7.7	(7.3) [a]	Pass
176	95.0 - 101.0% of mass 174	14331	105.1	(99.5) [a]	Pass
177	5.0 - 9.0% of mass 176	957	7.0	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2C1-IC001	2C0022.D	11/15/04	14:04	00:34	Initial cal 1
V2C1-IC001	2C0023.D	11/15/04	14:35	01:05	Initial cal 2
V2C1-IC001	2C0024.D	11/15/04	15:06	01:36	Initial cal 5
V2C1-IC001	2C0025.D	11/15/04	15:38	02:08	Initial cal 20
V2C1-ICC001	2C0026.D	11/15/04	16:09	02:39	Initial cal 50
V2C1-IC001	2C0027.D	11/15/04	16:40	03:10	Initial cal 100
V2C1-IC001	2C0028.D	11/15/04	17:11	03:41	Initial cal 200

Instrument Performance Check (BFB)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	V2C63-BFB	**Injection Date:**	12/19/04
Lab File ID:	2C1381.D	**Injection Time:**	12:06
Instrument ID:	GCMS2C		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	1396	20.8		Pass
75	30.0 - 60.0% of mass 95	3512	52.2		Pass
95	Base peak, 100% relative abundance	6725	100.0		Pass
96	5.0 - 9.0% of mass 95	499	7.4		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	6353	94.5		Pass
175	5.0 - 9.0% of mass 174	454	6.8	(7.1) [a]	Pass
176	95.0 - 101.0% of mass 174	6123	91.0	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	418	6.2	(6.8) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2C63-CC001	2C1382.D	12/19/04	13:22	01:16	Continuing cal 20
V2C63-MB1	2C1383.D	12/19/04	13:53	01:47	Method Blank
V2C63-BS	2C1384.D	12/19/04	14:25	02:19	Blank Spike
N85524-33	2C1385.D	12/19/04	14:56	02:50	(used for QC only; not part of job N85893)
ZZZZZZ	2C1386.D	12/19/04	15:28	03:22	(unrelated sample)
ZZZZZZ	2C1387.D	12/19/04	15:59	03:53	(unrelated sample)
ZZZZZZ	2C1388.D	12/19/04	16:31	04:25	(unrelated sample)
ZZZZZZ	2C1389.D	12/19/04	17:02	04:56	(unrelated sample)
ZZZZZZ	2C1390.D	12/19/04	17:33	05:27	(unrelated sample)
ZZZZZZ	2C1391.D	12/19/04	18:05	05:59	(unrelated sample)
ZZZZZZ	2C1392.D	12/19/04	18:36	06:30	(unrelated sample)
ZZZZZZ	2C1393.D	12/19/04	19:08	07:02	(unrelated sample)
ZZZZZZ	2C1394.D	12/19/04	19:39	07:33	(unrelated sample)
ZZZZZZ	2C1395.D	12/19/04	20:10	08:04	(unrelated sample)
N85893-1	2C1396.D	12/19/04	20:42	08:36	WELL AZ
N85893-2	2C1397.D	12/19/04	21:13	09:07	FB-1
N85893-3	2C1398.D	12/19/04	21:44	09:38	TRIP BLANK
ZZZZZZ	2C1399.D	12/19/04	22:16	10:10	(unrelated sample)
ZZZZZZ	2C1400.D	12/19/04	22:47	10:41	(unrelated sample)
N85524-33MS	2C1401.D	12/19/04	23:19	11:13	Matrix Spike
N85524-33MSD	2C1402.D	12/19/04	23:50	11:44	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	V2C63-CC001	**Injection Date:**	12/19/04
Lab File ID:	2C1382.D	**Injection Time:**	13:22
Instrument ID:	GCMS2C	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	27362	8.24	109121	10.68	139460	11.61	104982	14.62	61983	16.78
Upper Limit [a]	54724	8.74	218242	11.18	278920	12.11	209964	15.12	123966	17.28
Lower Limit [b]	13681	7.74	54561	10.18	69730	11.11	52491	14.12	30992	16.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2C63-MB1	27688	8.24	107086	10.68	134740	11.61	100625	14.62	56677	16.78
V2C63-BS	28768	8.23	115515	10.67	147219	11.61	111299	14.61	64843	16.78
N85524-33	29678	8.23	116263	10.68	144551	11.61	108119	14.61	61031	16.78
ZZZZZZ	29734	8.24	116268	10.68	145428	11.61	107593	14.61	61102	16.78
ZZZZZZ	28541	8.24	113113	10.68	142202	11.61	104845	14.61	59025	16.78
ZZZZZZ	27870	8.23	111428	10.68	138503	11.61	102843	14.61	58374	16.78
ZZZZZZ	28809	8.23	115438	10.67	146863	11.61	107960	14.61	61339	16.78
ZZZZZZ	27862	8.23	111479	10.67	142041	11.61	104850	14.61	58229	16.78
ZZZZZZ	28733	8.23	114082	10.67	144557	11.61	106169	14.61	60498	16.78
ZZZZZZ	27754	8.24	108957	10.68	137253	11.61	101925	14.61	58083	16.78
ZZZZZZ	28790	8.23	113853	10.68	143662	11.61	107559	14.61	60023	16.78
ZZZZZZ	29356	8.23	113463	10.68	145460	11.61	107978	14.61	60588	16.78
ZZZZZZ	26779	8.24	110001	10.67	140123	11.61	103947	14.61	59717	16.78
N85893-1	28847	8.24	112901	10.68	143489	11.61	106439	14.61	59636	16.78
N85893-2	29612	8.23	112704	10.68	143678	11.61	107329	14.61	59647	16.78
N85893-3	29328	8.23	112490	10.68	143200	11.61	106559	14.61	60579	16.78
ZZZZZZ	28487	8.23	110962	10.67	143008	11.61	105533	14.61	59236	16.78
ZZZZZZ	28776	8.23	112189	10.68	142549	11.61	106684	14.61	59984	16.78
N85524-33MS	31121	8.23	117683	10.68	150643	11.61	113333	14.61	66557	16.78
N85524-33MSD	31928	8.24	123303	10.67	155678	11.61	119553	14.61	69473	16.78

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
N85893-1	2C1396.D	103.0	96.0	88.0	106.0
N85893-2	2C1397.D	102.0	97.0	89.0	105.0
N85893-3	2C1398.D	102.0	96.0	90.0	105.0
N85524-33MS	2C1401.D	103.0	95.0	90.0	103.0
N85524-33MSD	2C1402.D	102.0	95.0	92.0	104.0
V2C63-BS	2C1384.D	102.0	98.0	91.0	104.0
V2C63-MB1	2C1383.D	102.0	98.0	88.0	105.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-119%
S2 = 1,2-Dichloroethane-D4	68-129%
S3 = Toluene-D8	83-118%
S4 = 4-Bromofluorobenzene	82-120%

Initial Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: V2C1-ICC001
Lab FileID: 2C0026.D

Response Factor Report MS2C

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Initial Calibration

Calibration Files
1 =2C0022.D 2 =2C0023.D 100 =2C0027.D 50 =2C0026.D
20 =2C0025.D 200 =2C0028.D 5 =2C0024.D

Compound	1	2	100	50	20	200	5	Avg	%RSD
1) I Tert Butyl Alcohol-d9	ISTD								
2)M tertiary butyl al			0.991	1.006	0.951	1.038	0.960	0.989	3.57
For special project Tertiary butyl alcohol RL = 10 ppb.									
2)M tertiary butyl al	0.335	0.991	1.006	0.951	1.038	0.960	0.880		30.57
----- Linear regression ----- Coefficient = 0.9996									
Response Ratio = -0.01692 + 1.03889 *A									
3)M 1,4-dioxane			0.088	0.091	0.081	0.097	0.071	0.086	11.72
4) I pentafluorobenzene	ISTD								
5)M chlorodifluoromet	0.936	0.783	0.875	0.826	0.832	0.858	0.865	0.854	5.55
6)M dichlorodifluorom	0.391	0.402	0.561	0.530	0.520	0.567	0.503	0.496	14.48
7)M chloromethane	0.636	0.641	0.629	0.599	0.601	0.621	0.631	0.623	2.67
8)M vinyl chloride	0.508	0.567	0.631	0.601	0.601	0.631	0.600	0.591	7.19
9)M bromomethane	0.394	0.403	0.385	0.378	0.381	0.363	0.392	0.385	3.38
10)M chloroethane	0.237	0.301	0.299	0.299	0.298	0.288	0.299	0.289	8.03
11)M trichlorofluorome	0.647	0.679	0.778	0.759	0.741	0.793	0.761	0.737	7.30
12)M ethyl ether		0.187	0.224	0.213	0.204	0.228	0.203	0.210	7.26
13)M acrolein			0.006	0.006	0.004	0.006	0.002	0.005#	35.29
----- Linear regression ----- Coefficient = 0.9995									
Response Ratio = -0.00752 + 0.00653 *A									
14)M 1,1-dichloroethen	0.381	0.451	0.425	0.428	0.401	0.440	0.433	0.423	5.65
15)M acetone		0.126	0.118	0.122	0.119	0.110	0.134	0.121	6.78
16)M allyl chloride	1.558	1.503	1.373	1.353	1.305	1.360	1.432	1.412	6.41
17)M acetonitrile		0.041	0.035	0.034	0.034	0.033	0.040	0.036	9.60
18)M iodomethane	0.665	0.810	0.890	0.864	0.807	0.902	0.838	0.825	9.67
19)M iso-butyl alcohol			0.005	0.005	0.004	0.005		0.005#	12.01
20)M carbon disulfide	1.362	1.480	1.540	1.522	1.425	1.548	1.480	1.480	4.54
21)M methylene chlorid	0.368	0.489	0.481	0.473	0.450	0.487	0.479	0.461	9.37
22)M methyl acetate	0.221	0.259	0.297	0.289	0.276	0.294	0.310	0.278	10.76
23)M methyl tert butyl	1.100	1.180	1.212	1.154	1.095	1.188	1.162	1.156	3.81
24)M trans-1,2-dichlor	0.574	0.533	0.478	0.468	0.457	0.489	0.554	0.508	9.01
25)M di-isopropyl ethe	1.693	1.595	1.755	1.722	1.631	1.736	1.716	1.692	3.46
26)M 2-butanone	0.352	0.396	0.489	0.470	0.446	0.478	0.471	0.443	11.41
27)M 1,1-dichloroethan	0.756	0.848	0.885	0.871	0.827	0.902	0.880	0.852	5.78
28)M chloroprene	0.537	0.517	0.628	0.610	0.574	0.641	0.591	0.585	7.86
29)M acrylonitrile	0.090	0.110	0.127	0.120	0.114	0.127	0.117	0.115	10.99
30)M vinyl acetate			0.054	0.051	0.045	0.055	0.036	0.048	16.24
----- Linear regression ----- Coefficient = 0.9998									
Response Ratio = -0.00377 + 0.05624 *A									

Initial Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: V2C1-ICC001
Lab FileID: 2C0026.D

31)M ethyl tert-butyl	1.471	1.312	1.549	1.485	1.416	1.527	1.467	1.461	5.38
32)M ethyl acetate			0.047	0.046	0.041	0.046	0.036	0.043	10.25
33)M 2,2-dichloropropa	0.727	0.787	0.798	0.779	0.747	0.799	0.794	0.776	3.62
34)M cis-1,2-dichloroe	0.517	0.563	0.540	0.598	0.538	0.556	0.587	0.557	5.10
35)M propionitrile		0.036	0.045	0.043	0.040	0.045	0.041	0.042	8.43
36)M bromochloromethan		0.232	0.255	0.245	0.233	0.260	0.236	0.243	4.91
37)M tetrahydrofuran			0.101	0.096	0.087	0.101	0.069	0.091	14.68
38)M chloroform	0.738	0.847	0.856	0.846	0.801	0.881	0.829	0.828	5.64
39)S dibromofluorometh	0.359	0.420	0.467	0.446	0.443	0.485	0.447	0.438	9.21
40)S 1,2-dichloroethan	0.416	0.422	0.462	0.444	0.444	0.464	0.453	0.443	4.21
41)M freon 113	0.350	0.325	0.447	0.430	0.420	0.452	0.421	0.406	12.10
42)M methacrylonitrile	0.261	0.253	0.230	0.223	0.212	0.232	0.224	0.233	7.48
43)M 1,1,1-trichloroet	0.670	0.789	0.814	0.792	0.756	0.826	0.796	0.778	6.75
44)M Cyclohexane	0.637	0.708	0.771	0.734	0.704	0.786	0.721	0.723	6.76
45) I 1,4-difluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------	
46)M Di-isobutylene	0.824	0.827	0.994	0.953	0.863	1.036	0.876	0.910	9.24
47)M epichlorohydrin			0.021	0.020	0.018	0.021	0.018	0.019	7.46
48)M n-butyl alcohol	0.005	0.005	0.004	0.004	0.007	0.004	0.007	0.005#	23.59
----- Linear regression ----- Coefficient = 0.9951									
Response Ratio = 0.01353 + 0.00427 *A									
49)M carbon tetrachlor	0.424	0.498	0.550	0.535	0.500	0.560	0.507	0.511	8.88
50)M 1,1-dichloroprope	0.410	0.453	0.471	0.461	0.439	0.484	0.469	0.455	5.39
51)M hexane	0.507	0.401	0.438	0.437	0.419	0.454	0.444	0.443	7.49
52)M tert amyl alcohol								0.000#	-1.00
53)M iso-octane								0.000#	-1.00
54)M benzene	1.488	1.475	1.371	1.358	1.292	1.388	1.393	1.395	4.88
55)M tert-amyl methyl	1.052	0.936	0.984	0.959	0.918	0.941	0.976	0.967	4.59
56)M heptane	0.236	0.184	0.210	0.209	0.200	0.219	0.214	0.210	7.58
57)M isopropyl acetate	0.447	0.413	0.475	0.459	0.442	0.466	0.479	0.454	5.07
58)M 1,2-dichloroethan	0.340	0.396	0.416	0.411	0.393	0.405	0.410	0.396	6.50
59)M trichloroethene	0.318	0.338	0.357	0.349	0.333	0.367	0.340	0.343	4.70
60)M 2-nitropropane		0.146	0.151	0.161	0.152	0.142	0.152	0.151	4.29
61)M 2-chloroethyl vin	0.142	0.133	0.165	0.160	0.149	0.161	0.157	0.152	7.59
62)M methyl methacryla		0.120	0.160	0.148	0.135	0.167	0.139	0.145	11.91
63)M 1,2-dichloropropa	0.291	0.336	0.356	0.352	0.328	0.361	0.341	0.338	7.04
64)M dibromomethane	0.128	0.170	0.189	0.183	0.175	0.193	0.173	0.173	12.39
65)M methylcyclohexane	0.561	0.504	0.570	0.551	0.529	0.578	0.540	0.547	4.66
66)M bromodichlorometh	0.362	0.395	0.450	0.434	0.396	0.462	0.404	0.415	8.48
67)M cis-1,3-dichlorop	0.442	0.491	0.543	0.528	0.489	0.558	0.501	0.507	7.70
68)S toluene-d8 (s)	1.095	1.086	1.144	1.103	1.095	1.182	1.114	1.117	3.09
69)M 4-methyl-2-pentan	0.228	0.278	0.306	0.304	0.281	0.302	0.294	0.285	9.57
70)M toluene	0.726	0.752	0.800	0.784	0.722	0.828	0.747	0.765	5.18
71)M 3-methyl-1-butano			0.007	0.008	0.007	0.007	0.006	0.007#	10.26
72)M trans-1,3-dichlor	0.382	0.403	0.455	0.436	0.406	0.464	0.419	0.424	6.93
73)M ethyl methacrylat		0.227	0.303	0.284	0.254	0.309	0.252	0.271	11.97
74)M 1,1,2-trichloroet	0.150	0.189	0.207	0.199	0.187	0.213	0.194	0.191	10.71
75)M 2-hexanone		0.116	0.132	0.136	0.127	0.126	0.129	0.128	5.23
76) I chlorobenzene-d5	----------	----------	ISTD	----------	----------	----------	----------	----------	
77)M tetrachloroethene	0.337	0.373	0.395	0.387	0.365	0.401	0.378	0.376	5.70
78)M 1,3-dichloropropa	0.368	0.438	0.467	0.450	0.426	0.458	0.457	0.438	7.68
79)M butyl acetate		0.097	0.148	0.144	0.137	0.146	0.141	0.135	14.05
80)M dibromochlorometh	0.271	0.312	0.386	0.359	0.332	0.397	0.320	0.340	13.05
81)M 1,2-dibromoethane	0.209	0.250	0.290	0.275	0.263	0.292	0.269	0.264	10.73
82)M chlorobenzene	0.955	1.000	1.069	1.047	0.989	1.086	1.033	1.025	4.56
83)M 1,1,1,2-tetrachlo	0.322	0.391	0.448	0.427	0.405	0.444	0.399	0.405	10.51
84)M ethylbenzene	1.597	1.624	1.676	1.658	1.575	1.688	1.629	1.635	3.53
85)M m,p-xylene	0.641	0.657	0.682	0.670	0.631	0.687	0.650	0.660	3.17

Initial Calibration Summary

Job Number: N85893 **Sample:** V2C1-ICC001
Account: AGMPAL Arcadis Geraghty & Miller **Lab FileID:** 2C0026.D
Project: PSEG-Salem, Artificial Island, Salem, NJ

86)M o-xylene	0.615	0.666	0.709	0.687	0.659	0.712	0.673	0.674	4.92
87)M styrene	0.844	0.936	1.076	1.035	0.961	1.099	0.971	0.989	8.91
88)M bromoform		0.187	0.258	0.234	0.210	0.271	0.198	0.227	14.85
89) I 1,4-dichlorobenzene-d	----------	----------	ISTD	----------	----------	----------	----------	----------	
90)M isopropylbenzene	2.479	2.483	2.820	2.747	2.540	2.809	2.573	2.636	5.74
91)S 4-bromofluorobenz	0.830	0.792	0.834	0.809	0.804	0.837	0.826	0.819	2.11
92)M cyclohexanone			0.030	0.032	0.028	0.028	0.024	0.029	10.44
93)M bromobenzene	0.772	0.806	0.870	0.844	0.801	0.861	0.836	0.827	4.31
94)M 1,1,2,2-tetrachlo	0.464	0.483	0.553	0.528	0.500	0.539	0.508	0.511	6.21
95)M trans-1,4-dichlor			0.145	0.141	0.132	0.144	0.125	0.138	6.23
96)M 1,2,3-trichloropr			0.149	0.144	0.138	0.143	0.138	0.142	3.47
97)M n-propylbenzene	3.132	3.240	3.359	3.325	3.158	3.315	3.286	3.259	2.65
98)M 2-chlorotoluene	2.302	2.316	2.356	2.352	2.205	2.326	2.302	2.308	2.19
99)M 4-chlorotoluene	2.065	2.096	2.083	2.070	1.955	2.082	2.080	2.062	2.33
100)M 1,3,5-trimethylbe	2.357	2.305	2.561	2.488	2.313	2.570	2.348	2.420	4.79
101)M tert-butylbenzene	1.368	1.437	1.521	1.484	1.383	1.517	1.393	1.443	4.47
102)M pentachloroethane	0.373	0.403	0.544	0.502	0.457	0.552	0.439	0.467	14.71
103)M 1,2,4-trimethylbe	2.411	2.443	2.616	2.553	2.393	2.680	2.444	2.506	4.44
104)M sec-butylbenzene	3.021	3.070	3.354	3.232	2.995	3.402	3.032	3.158	5.36
105)M 1,3-dichlorobenze	1.618	1.648	1.685	1.652	1.547	1.701	1.635	1.641	3.06
106)M p-isopropyltoluen	2.711	2.658	2.917	2.810	2.610	3.001	2.631	2.762	5.48
107)M 1,4-dichlorobenze	1.607	1.691	1.704	1.654	1.559	1.722	1.621	1.651	3.56
108)M 1,2-dichlorobenze	1.492	1.527	1.624	1.565	1.475	1.646	1.542	1.553	4.10
109)M n-butylbenzene	2.642	2.476	2.550	2.492	2.351	2.630	2.433	2.511	4.18
110)M 1,2-dibromo-3-chl			0.110	0.102	0.098	0.110	0.108	0.106	5.04
111)M 1,2,4-trichlorobe	1.555	1.415	1.580	1.444	1.391	1.542	1.408	1.476	5.38
112)M hexachlorobutadie	0.851	0.750	0.810	0.750	0.710	0.790	0.739	0.771	6.24
113)M naphthalene	2.435	2.333	2.593	2.368	2.292	2.413	2.327	2.394	4.22
114)M 1,2,3-trichlorobe	1.498	1.285	1.395	1.288	1.245	1.295	1.274	1.326	6.72
115)M hexachloroethane			0.644	0.585	0.505	0.681	0.444	0.572	17.04

----- Linear regression ----- Coefficient = 0.9990
Response Ratio = -0.07087 + 0.69292 *A

(#) = Out of Range

M2C001.M Thu Dec 02 21:37:01 2004 MS2C

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: V2C63-CC001
Lab FileID: 2C1382.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\2C1382.D
Acq On : 19 Dec 2004 1:22 pm
Sample : CC001-20
Misc : MS8372,V2C063,W,,,,1
MS Integration Params: rteint.p

Vial: 2
Operator: KANYAV
Inst : ms2C
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	75	-0.03	8.24
2	M	tertiary butyl alcohol	0.989	0.998	-0.9	79	-0.02	8.38
3	M	1,4-dioxane	0.086	0.075	12.8	69	-0.02	12.32
4	I	pentafluorobenzene	1.000	1.000	0.0	79	-0.02	10.68
5	M	chlorodifluoromethane	0.854	0.982	-15.0	93	-0.01	4.22
6	M	dichlorodifluoromethane	0.496	0.626	-26.2#	95	-0.02	4.18
7	M	chloromethane	0.623	0.685	-10.0	90	-0.03	4.60
8	M	vinyl chloride	0.591	0.670	-13.4	88	-0.02	4.90
9	M	bromomethane	0.385	0.406	-5.5	84	-0.02	5.68
10	M	chloroethane	0.289	0.313	-8.3	83	-0.01	5.89
11	M	trichlorofluoromethane	0.737	0.897	-21.7#	95	-0.01	6.42
12	M	ethyl ether	0.210	0.217	-3.3	84	-0.02	6.93
			True	Calc.	% Drift			
13	M	acrolein	200.000	1294.533	-547.3#	709	-0.02	7.24
			AvgRF	CCRF	% Dev			
14	M	1,1-dichloroethene	0.423	0.444	-5.0	87	-0.01	7.41
15	M	acetone	0.121	0.098	19.0	65	-0.03	7.51
16	M	allyl chloride	1.412	1.443	-2.2	87	-0.02	8.03
17	M	acetonitrile	0.036	0.040	-11.1	94	-0.02	8.02
18	M	iodomethane	0.825	0.941	-14.1	92	-0.02	7.73
19	M	iso-butyl alcohol	0.005	0.004#	20.0	77	-0.02	10.97
20	M	carbon disulfide	1.480	1.450	2.0	80	-0.02	7.87
21	M	methylene chloride	0.461	0.505	-9.5	88	-0.02	8.26
22	M	methyl acetate	0.278	0.269	3.2	77	-0.02	8.03
23	M	methyl tert butyl ether	1.156	1.160	-0.3	83	-0.02	8.63
24	M	trans-1,2-dichloroethene	0.508	0.487	4.1	84	-0.02	8.68
25	M	di-isopropyl ether	1.692	1.649	2.5	80	-0.02	9.29
26	M	2-butanone	0.443	0.443	0.0	78	-0.02	10.12
27	M	1,1-dichloroethane	0.852	0.905	-6.2	86	-0.02	9.32
28	M	chloroprene	0.585	0.556	5.0	76	-0.02	9.43
29	M	acrylonitrile	0.115	0.134	-16.5	93	-0.02	8.65
			True	Calc.	% Drift			
30	M	vinyl acetate	20.000	21.109	-5.5	87	-0.02	9.31
			AvgRF	CCRF	% Dev			
31	M	ethyl tert-butyl ether	1.461	1.400	4.2	78	-0.02	9.80
32	M	ethyl acetate	0.043	0.039	9.3	74	-0.01	10.12
33	M	2,2-dichloropropane	0.776	0.821	-5.8	87	-0.02	10.12

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: V2C63-CC001
Lab FileID: 2C1382.D

34	M	cis-1,2-dichloroethene	0.557	0.527	5.4	77	-0.02	10.13
35	M	propionitrile	0.042	0.046	-9.5	92	-0.02	10.21
36	M	bromochloromethane	0.243	0.263	-8.2	89	-0.02	10.47
37	M	tetrahydrofuran	0.091	0.083	8.8	75	-0.02	10.52
38	M	chloroform	0.828	0.882	-6.5	87	-0.02	10.53
39	S	dibromofluoromethane (s)	0.438	0.457	-4.3	81	-0.02	10.74
40	S	1,2-dichloroethane-d4 (s)	0.443	0.443	0.0	79	-0.02	11.17
41	M	freon 113	0.406	0.511	-25.9#	96	0.00	7.38
42	M	methacrylonitrile	0.233	0.212	9.0	79	-0.02	10.41
43	M	1,1,1-trichloroethane	0.778	0.824	-5.9	86	-0.02	10.79
44	M	Cyclohexane	0.723	0.678	6.2	76	-0.02	10.85
45	I	1,4-difluorobenzene	1.000	1.000	0.0	75	-0.02	11.61
46	M	Di-isobutylene	0.910	0.793	12.9	69	-0.02	11.82
47	M	epichlorohydrin	0.019	0.018	5.3	75	-0.01	12.84
			True	Calc.	% Drift			
48	M	n-butyl alcohol	1000.000	604.289	39.6#	34	-0.02	11.76
			AvgRF	CCRF	% Dev			
49	M	carbon tetrachloride	0.511	0.598	-17.0	89	-0.02	10.99
50	M	1,1-dichloropropene	0.455	0.462	-1.5	79	-0.02	10.97
51	M	hexane	0.443	0.434	2.0	77	-0.02	9.01
52	M	tert amyl alcohol	0.000	0.000#	0.0	77	-0.02	11.94
53	M	iso-octane	0.000	0.017	0.0	0#	-0.19	12.15
54	M	benzene	1.395	1.304	6.5	75	-0.02	11.24
55	M	tert-amyl methyl ether	0.967	0.942	2.6	77	-0.02	11.27
56	M	heptane	0.210	0.199	5.2	74	-0.02	11.40
57	M	isopropyl acetate	0.454	0.439	3.3	74	-0.02	11.16
58	M	1,2-dichloroethane	0.396	0.468	-18.2	89	-0.02	11.26
59	M	trichloroethene	0.343	0.345	-0.6	78	-0.02	11.94
60	M	2-nitropropane	0.151	0.145	4.0	72	-0.01	13.03
61	M	2-chloroethyl vinyl ether	0.152	0.152	0.0	76	-0.02	12.70
62	M	methyl methacrylate	0.145	0.130	10.3	72	-0.02	12.21
63	M	1,2-dichloropropane	0.338	0.334	1.2	76	-0.02	12.21
64	M	dibromomethane	0.173	0.198	-14.5	85	-0.02	12.36
65	M	methylcyclohexane	0.547	0.519	5.1	73	-0.02	12.15
66	M	bromodichloromethane	0.415	0.444	-7.0	84	-0.02	12.49
67	M	cis-1,3-dichloropropene	0.507	0.477	5.9	73	-0.02	12.92
68	S	toluene-d8 (s)	1.117	1.016	9.0	69	-0.02	13.19
69	M	4-methyl-2-pentanone	0.285	0.270	5.3	72	-0.02	13.01
70	M	toluene	0.765	0.673	12.0	70	-0.01	13.26
71	M	3-methyl-1-butanol	0.007	0.006#	14.3	64	-0.02	13.03
72	M	trans-1,3-dichloropropene	0.424	0.423	0.2	78	-0.02	13.45
73	M	ethyl methacrylate	0.271	0.220	18.8	65	-0.01	13.43
74	M	1,1,2-trichloroethane	0.191	0.192	-0.5	77	-0.02	13.65
75	M	2-hexanone	0.128	0.100	21.9#	59	0.00	13.82
76	I	chlorobenzene-d5	1.000	1.000	0.0	68	-0.01	14.62
77	M	tetrachloroethene	0.376	0.384	-2.1	71	-0.02	13.81
78	M	1,3-dichloropropane	0.438	0.495	-13.0	79	-0.02	13.83
79	M	butyl acetate	0.135	0.136	-0.7	67	-0.01	13.87
80	M	dibromochloromethane	0.340	0.388	-14.1	79	-0.02	14.08
81	M	1,2-dibromoethane	0.264	0.291	-10.2	75	-0.02	14.22
82	M	chlorobenzene	1.025	1.023	0.2	70	-0.02	14.64
83	M	1,1,1,2-tetrachloroethane	0.405	0.451	-11.4	75	-0.02	14.70
84	M	ethylbenzene	1.635	1.597	2.3	69	-0.02	14.69
85	M	m,p-xylene	0.660	0.635	3.8	68	-0.01	14.79
86	M	o-xylene	0.674	0.636	5.6	65	-0.02	15.18
87	M	styrene	0.989	0.868	12.2	61	-0.01	15.19

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: V2C63-CC001
Lab FileID: 2C1382.D

88	M	bromoform	0.227	0.233	-2.6	75	-0.02	15.45
89	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	69	-0.02	16.78
90	M	isopropylbenzene	2.636	2.426	8.0	66	-0.01	15.49
91	S	4-bromofluorobenzene (s)	0.819	0.852	-4.0	73	-0.02	15.69
92	M	cyclohexanone	0.029	0.026	10.3	64	-0.02	13.03
93	M	bromobenzene	0.827	0.826	0.1	71	-0.01	15.88
94	M	1,1,2,2-tetrachloroethane	0.511	0.542	-6.1	74	-0.02	15.79
95	M	trans-1,4-dichloro-2-bute	0.138	0.099	28.3#	51	-0.02	15.82
96	M	1,2,3-trichloropropane	0.142	0.164	-15.5	82	-0.02	15.86
97	M	n-propylbenzene	3.259	3.115	4.4	68	-0.02	15.87
98	M	2-chlorotoluene	2.308	2.298	0.4	72	-0.02	16.02
99	M	4-chlorotoluene	2.062	2.012	2.4	71	-0.01	16.11
100	M	1,3,5-trimethylbenzene	2.420	2.252	6.9	67	-0.02	16.01
101	M	tert-butylbenzene	1.443	1.431	0.8	71	-0.01	16.34
102	M	pentachloroethane	0.467	0.547	-17.1	82	-0.02	16.43
103	M	1,2,4-trimethylbenzene	2.506	2.372	5.3	68	-0.01	16.38
104	M	sec-butylbenzene	3.158	2.884	8.7	66	-0.01	16.54
105	M	1,3-dichlorobenzene	1.641	1.551	5.5	69	-0.01	16.73
106	M	p-isopropyltoluene	2.762	2.520	8.8	66	-0.01	16.65
107	M	1,4-dichlorobenzene	1.651	1.584	4.1	70	-0.02	16.80
108	M	1,2-dichlorobenzene	1.553	1.467	5.5	68	-0.02	17.19
109	M	n-butylbenzene	2.511	2.339	6.8	68	-0.02	17.04
110	M	1,2-dibromo-3-chloropropa	0.106	0.111	-4.7	78	-0.02	17.96
111	M	1,2,4-trichlorobenzene	1.476	1.401	5.1	69	-0.02	18.79
112	M	hexachlorobutadiene	0.771	0.757	1.8	73	-0.02	18.90
113	M	naphthalene	2.394	2.323	3.0	70	-0.02	19.08
114	M	1,2,3-trichlorobenzene	1.326	1.308	1.4	72	-0.02	19.33
			True	Calc.	% Drift			
115	M	hexachloroethane	20.000	20.701	-3.5	73	-0.01	17.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2C0025.D M2C001.M Mon Dec 20 08:54:03 2004 MS2C

Data File : C:\MSDCHEM\1\DATA\MS2C\2C1396.D Vial: 16
Acq On : 19 Dec 2004 8:42 pm Operator: KANYAV
Sample : N85893-1 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 19 21:07:38 2004 Quant Results File: M2C001.RES

Quant Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Initial Calibration
DataAcq Meth : M2C001

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.24	65	28847	500.00	ug/L	-0.03
4) pentafluorobenzene	10.68	168	112901	50.00	ug/L	-0.02
45) 1,4-difluorobenzene	11.61	114	143489	50.00	ug/L	-0.02
76) chlorobenzene-d5	14.61	117	106439	50.00	ug/L	-0.02
89) 1,4-dichlorobenzene-d4	16.78	152	59636	50.00	ug/L	-0.02
System Monitoring Compounds						
39) dibromofluoromethane (s)	10.73	113	50795	51.33	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 102.66%			
40) 1,2-dichloroethane-d4 (s)	11.17	65	48063	48.00	ug/L	-0.02
Spiked Amount 50.000	Range 68 - 129		Recovery = 96.00%			
68) toluene-d8 (s)	13.19	98	141202	44.04	ug/L	-0.02
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.08%			
91) 4-bromofluorobenzene (s)	15.69	95	51820	53.07	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 106.14%			

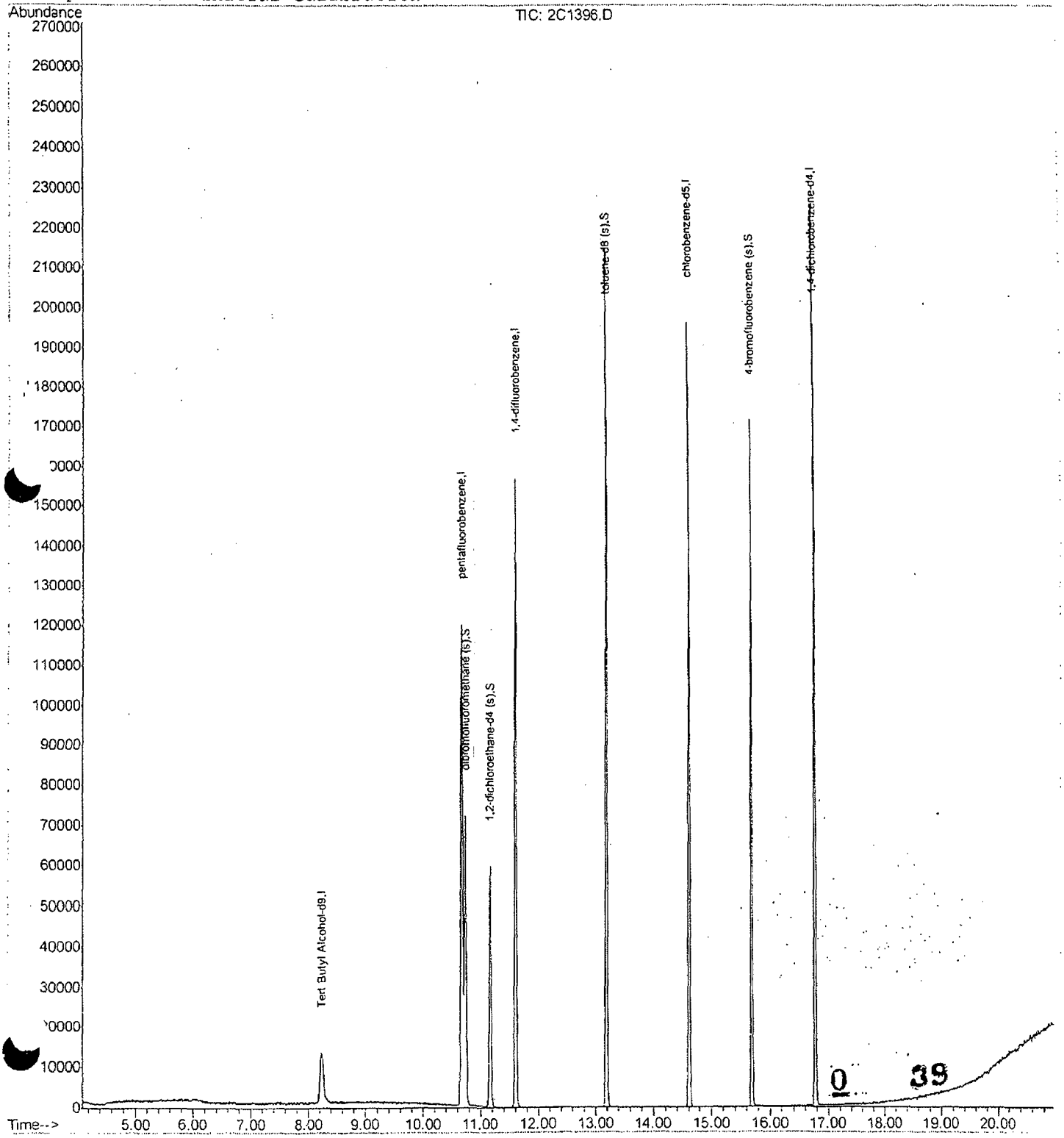
Target Compounds Qvalue

DF 12/21/04

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\MS2C\2C1396.D Vial: 16
Acq On : 19 Dec 2004 8:42 pm Operator: KANYAV
Sample : N85893-1 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 21 10:57 2004 Quant Results File: M2C001.RES

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Nov 15 19:32:24 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\MS2C\2C1397.D Vial: 17
Acq On : 19 Dec 2004 9:13 pm Operator: KANYAV
Sample : N85893-2 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Q t Time: Dec 19 21:39:06 2004 Quant Results File: M2C001.RES

nt Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Initial Calibration
DataAcq Meth : M2C001

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.23	65	29612	500.00	ug/L	-0.04
4) pentafluorobenzene	10.68	168	112704	50.00	ug/L	-0.02
45) 1,4-difluorobenzene	11.61	114	143678	50.00	ug/L	-0.02
76) chlorobenzene-d5	14.61	117	107329	50.00	ug/L	-0.02
89) 1,4-dichlorobenzene-d4	16.78	152	59647	50.00	ug/L	-0.02
System Monitoring Compounds						
39) dibromofluoromethane (s)	10.73	113	50348	50.96	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 101.92%			
40) 1,2-dichloroethane-d4 (s)	11.17	65	48297	48.31	ug/L	-0.02
Spiked Amount 50.000	Range 68 - 129		Recovery = 96.62%			
68) toluene-d8 (s)	13.19	98	142818	44.49	ug/L	-0.02
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.98%			
91) 4-bromofluorobenzene (s)	15.69	95	51090	52.32	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 104.64%			

Target Compounds Qvalue

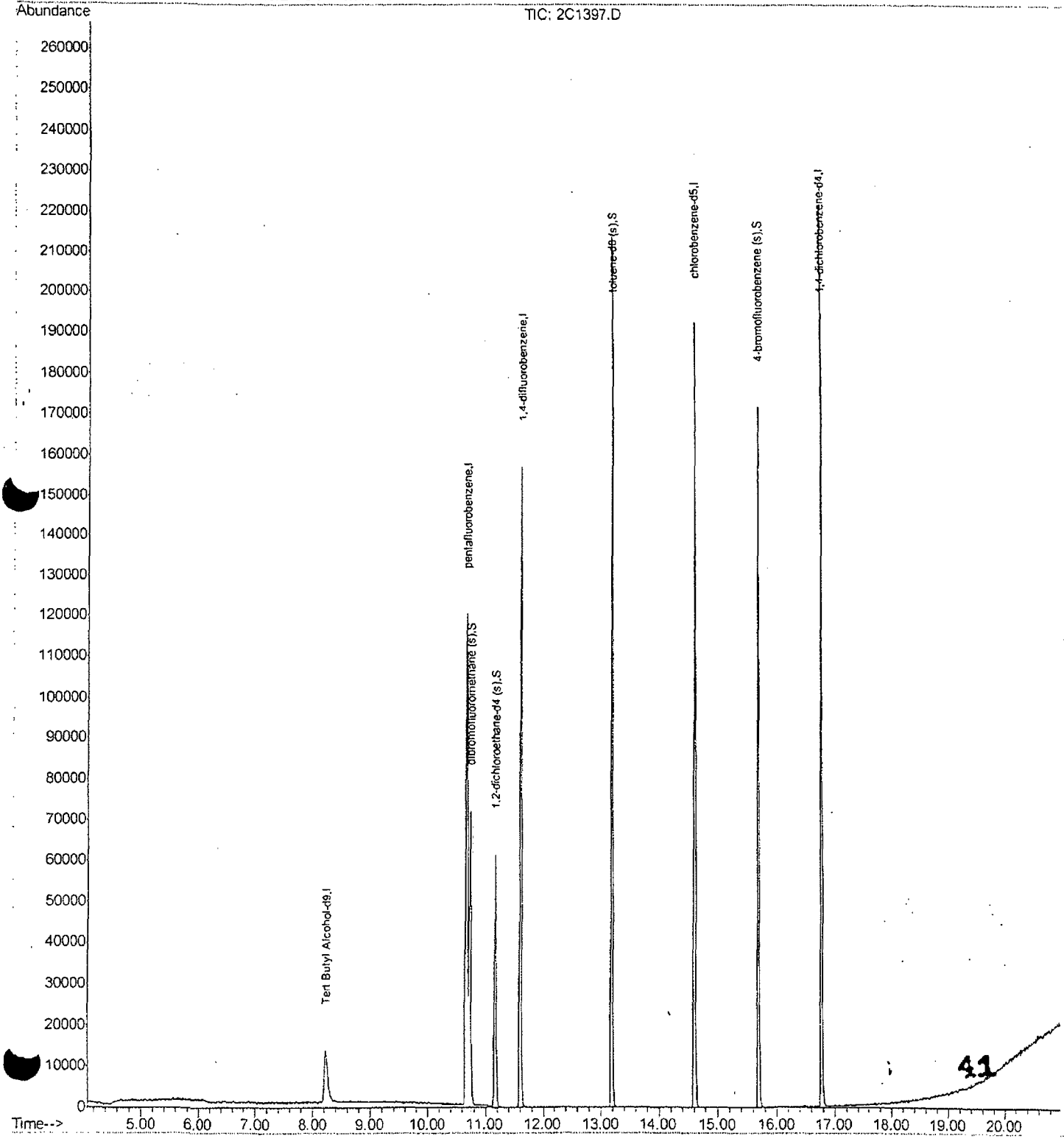
DP 12/21/04

0 40

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\MS2C\2C1397.D Vial: 17
Acq On : 19 Dec 2004 9:13 pm Operator: KANYAV
Sample : N85893-2 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 21 10:57 2004 Quant Results File: M2C001.RES

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Nov 15 19:32:24 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\MS2C\2C1398.D Vial: 18
Acq On : 19 Dec 2004 9:44 pm Operator: KANYAV
Sample : N85893-3 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 19 22:10:27 2004 Quant Results File: M2C001.RES

Quant Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Initial Calibration
DataAcq Meth : M2C001

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.23	65	29328	500.00	ug/L	-0.04
4) pentafluorobenzene	10.68	168	112490	50.00	ug/L	-0.02
45) 1,4-difluorobenzene	11.61	114	143200	50.00	ug/L	-0.02
76) chlorobenzene-d5	14.61	117	106559	50.00	ug/L	-0.02
89) 1,4-dichlorobenzene-d4	16.78	152	60579	50.00	ug/L	-0.02
System Monitoring Compounds						
39) dibromofluoromethane (s)	10.73	113	50496	51.21	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 102.42%			
40) 1,2-dichloroethane-d4 (s)	11.17	65	48000	48.11	ug/L	-0.02
Spiked Amount 50.000	Range 68 - 129		Recovery = 96.22%			
68) toluene-d8 (s)	13.19	98	143862	44.96	ug/L	-0.02
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.92%			
91) 4-bromofluorobenzene (s)	15.69	95	51910	52.34	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 104.68%			

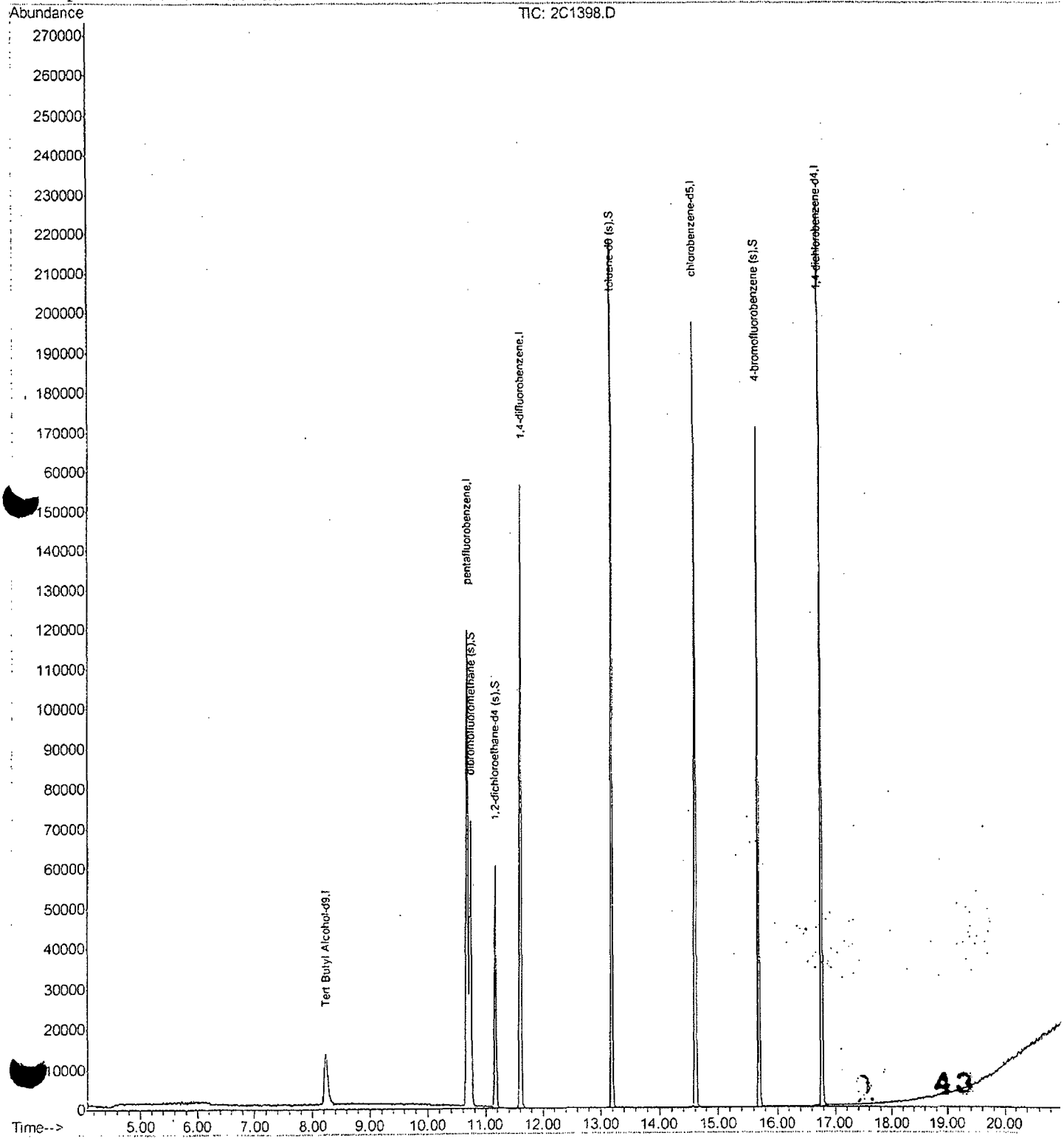
Target Compounds Qvalue

DF 12/21/04

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\MS2C\2C1398.D Vial: 18
Acq On : 19 Dec 2004 9:44 pm Operator: KANYAV
Sample : N85893-3 Inst : ms2C
Misc : MS8569,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 21 10:57 2004 Quant Results File: M2C001.RES

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Nov 15 19:32:24 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\MS2C\2C1383.D Vial: 3
Acq On : 19 Dec 2004 1:53 pm Operator: KANYAV
Sample : MB1 Inst : ms2C
Misc : MS8206,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 19 14:19:29 2004 Quant Results File: M2C001.RES

Quant Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Nov 18 10:21:14 2004
Response via : Initial Calibration
DataAcq Meth : M2C001

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	8.24	65	27688	500.00	ug/L	-0.03
4) pentafluorobenzene	10.68	168	107086	50.00	ug/L	-0.02
45) 1,4-difluorobenzene	11.61	114	134740	50.00	ug/L	-0.02
76) chlorobenzene-d5	14.62	117	100625	50.00	ug/L	-0.01
89) 1,4-dichlorobenzene-d4	16.78	152	56677	50.00	ug/L	-0.02
System Monitoring Compounds						
39) dibromofluoromethane (s)	10.73	113	47749	50.87	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 101.74%			
40) 1,2-dichloroethane-d4 (s)	11.17	65	46643	49.11	ug/L	-0.02
Spiked Amount 50.000	Range 68 - 129		Recovery = 98.22%			
68) toluene-d8 (s)	13.19	98	133001	44.18	ug/L	-0.02
Spiked Amount 50.000	Range 83 - 118		Recovery = 88.36%			
91) 4-bromofluorobenzene (s)	15.69	95	48839	52.63	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 105.26%			

Target Compounds Qvalue

AP 12/21/04

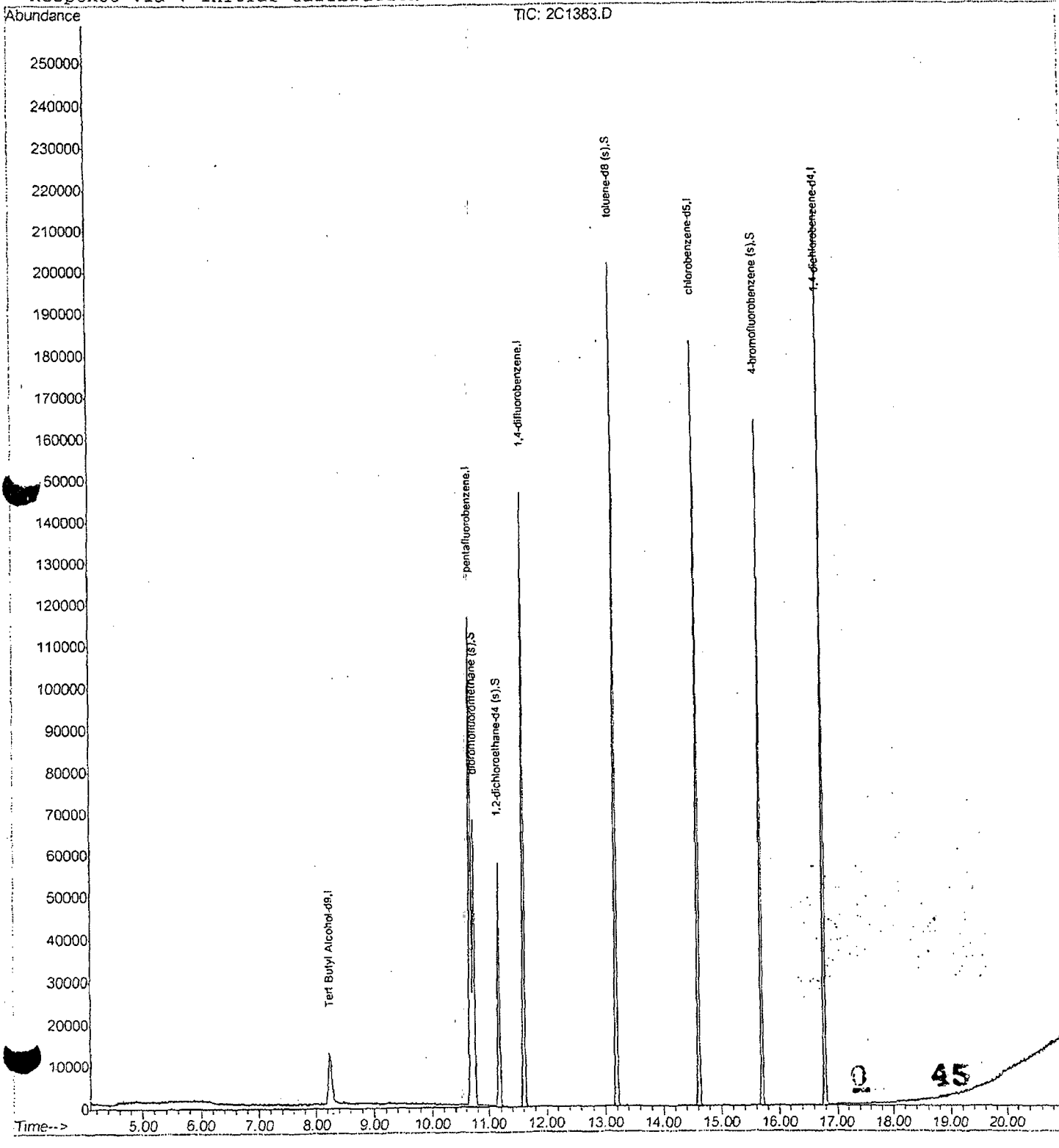
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\MS2C\2C1383.D
Acq On : 19 Dec 2004 1:53 pm
Sample : MB1
Misc : MS8206,V2C063,W,,,,1
MS Integration Params: rteint.p
Quant Time: Dec 21 10:50 2004

Vial: 3
Operator: KANYAV
Inst : ms2C
Multiplr: 1.00

Quant Results File: M2C001.RES

Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Mon Nov 15 19:32:24 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\MS2C\2C1383.D Vial: 3
Acq On : 19 Dec 2004 1:53 pm Operator: KANYAV
Sample : MB1 Inst : ms2C
Misc : MS8206,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

M[illegible]od : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
T[illegible]le : SW-846 Method 8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

Peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.216	16	26	43	rVB3	485	2319	0.67%	0.094%
2	4.441	64	69	78	rBV2	379	1118	0.32%	0.045%
3	4.535	78	87	88	rBV2	469	817	0.24%	0.033%
4	4.567	88	93	95	rVV3	550	764	0.22%	0.031%
5	4.583	95	96	100	rVV3	531	667	0.19%	0.027%
6	4.609	100	101	107	rVV3	467	785	0.23%	0.032%
7	4.719	114	122	124	rBV2	392	735	0.21%	0.030%
8	4.845	143	146	149	rVB3	732	549	0.16%	0.022%
9	4.881	149	153	172	rBV2	724	2545	0.74%	0.103%
.0	5.023	178	180	188	rVB2	473	770	0.22%	0.031%
.1	5.081	188	191	199	rBV4	568	1150	0.33%	0.046%
.2	5.138	199	202	206	rVB2	401	500	0.15%	0.020%
.3	5.186	210	211	223	rBV3	509	1023	0.30%	0.041%
.4	5.275	223	228	233	rVB2	434	513	0.15%	0.021%
.5	5.317	235	236	242	rVB	492	606	0.18%	0.024%
.6	5.401	247	252	257	rVB3	446	862	0.25%	0.035%
.7	5.432	257	258	266	rBV3	468	881	0.26%	0.036%
.8	5.484	266	268	274	rVV2	442	601	0.17%	0.024%
.9	5.521	274	275	280	rVV3	573	536	0.16%	0.022%
:0	5.563	280	283	293	rVV4	550	1168	0.34%	0.047%
:1	5.642	293	298	304	rVV3	499	908	0.26%	0.037%
:2	5.715	310	312	323	rVV3	446	970	0.28%	0.039%
:3	5.794	323	327	333	rVB3	464	875	0.25%	0.035%
:4	5.883	343	344	351	rVB2	612	603	0.17%	0.024%
:5	5.925	351	352	359	rVB2	682	714	0.21%	0.029%
:6	5.988	361	364	366	rBV2	550	577	0.17%	0.023%
:7	6.087	381	383	387	rVB	603	645	0.19%	0.026%
:8	6.140	387	393	398	rBV3	646	1027	0.30%	0.042%
:9	6.239	410	412	425	rVB2	479	945	0.27%	0.038%
;0	6.323	425	428	434	rVV2	410	639	0.19%	0.026%
;1	6.376	434	438	445	rVV2	381	668	0.19%	0.027%
;2	6.439	445	450	468	rVV3	391	1359	0.39%	0.055%
;3	7.078	567	572	578	rBV3	434	650	0.19%	0.026%
;4	7.183	590	592	613	rVV3	347	1282	0.37%	0.052%
;5	7.330	613	620	623	rVV2	440	745	0.22%	0.030%
;6	7.351	623	624	633	rVB2	469	852	0.25%	0.034%
;7	7.424	636	638	645	rVB	336	539	0.16%	0.022%
;8	7.482	645	649	651	rVB	605	571	0.17%	0.023%

0	7.555	662	663	668	rBV2	525	497	0.14%	0.020%
1	7.597	668	671	678	rVV2	486	816	0.24%	0.033%
2	7.639	678	679	687	rVV	454	725	0.21%	0.029%
3	7.707	691	692	696	rVB	593	572	0.17%	0.023%
4	8.012	745	750	762	rVB	390	660	0.19%	0.027%
5	8.090	762	765	770	rBV2	577	618	0.18%	0.025%
6	8.153	774	777	782	rBV2	392	604	0.18%	0.024%
7	8.237	782	793	826	rBV	12213	51774	15.02%	2.093%
8	8.515	845	846	853	rVB	602	849	0.25%	0.034%
9	8.588	853	860	863	rBV2	457	898	0.26%	0.036%
0	8.614	863	865	876	rVB2	391	790	0.23%	0.032%
1	8.683	876	878	884	rBV2	255	466	0.14%	0.019%
2	8.756	890	892	900	rVV	325	626	0.18%	0.025%
3	8.814	900	903	917	rVV2	469	1158	0.34%	0.047%
4	8.898	917	919	926	rVV2	412	771	0.22%	0.031%
5	8.940	926	927	933	rVB	439	567	0.16%	0.023%
6	9.034	944	945	954	rVV2	628	880	0.26%	0.036%
7	9.128	960	963	966	rVB2	451	519	0.15%	0.021%
8	9.186	973	974	978	rVB2	459	475	0.14%	0.019%
9	9.254	978	987	989	rBV2	557	1050	0.30%	0.042%
0	9.333	1000	1002	1013	rVB2	391	705	0.20%	0.028%
1	9.453	1023	1025	1030	rBV2	348	502	0.15%	0.020%
2	9.511	1035	1036	1043	rBV2	476	742	0.22%	0.030%
3	9.637	1056	1060	1065	rVV	423	590	0.17%	0.024%
4	9.763	1079	1084	1092	rVV	273	558	0.16%	0.023%
5	9.862	1098	1103	1107	rVB	327	491	0.14%	0.020%
6	10.282	1179	1183	1196	rVV	239	584	0.17%	0.024%
7	10.675	1247	1258	1264	rVV	116082	258981	75.14%	10.467%
8	0.733	1264	1269	1286	rVV	67730	153632	44.57%	6.209%
9	0.832	1286	1288	1296	rVV	234	553	0.16%	0.022%
0	10.879	1296	1297	1306	rVV	285	623	0.18%	0.025%
1	10.953	1306	1311	1313	rVV	268	472	0.14%	0.019%
2	10.969	1313	1314	1327	rVV	283	815	0.24%	0.033%
3	11.053	1327	1330	1337	rVV	262	544	0.16%	0.022%
4	11.168	1341	1352	1368	rVB	57843	122653	35.58%	4.957%
5	11.608	1427	1436	1452	rBB	146841	289149	83.89%	11.686%
6	13.186	1728	1737	1751	rBB	201681	344681	100.00%	13.931%
7	13.375	1769	1773	1778	rBB	365	567	0.16%	0.023%
8	14.613	2001	2009	2023	rBB	182928	294281	85.38%	11.894%
9	15.693	2207	2215	2227	rBB	163900	243378	70.61%	9.836%
0	16.448	2353	2359	2363	rBB	261	506	0.15%	0.020%
1	16.537	2373	2376	2382	rVB	277	596	0.17%	0.024%
2	16.783	2415	2423	2437	rVV	215679	326878	94.83%	13.211%
3	17.208	2502	2504	2510	rVV2	390	627	0.18%	0.025%
4	18.010	2639	2657	2661	rBV	242	656	0.19%	0.027%
5	18.246	2699	2702	2706	rBV2	389	545	0.16%	0.022%
6	18.304	2706	2713	2719	rVV2	290	784	0.23%	0.032%
7	18.419	2732	2735	2744	rVV	379	669	0.19%	0.027%
8	18.477	2744	2746	2753	rBV	224	466	0.14%	0.019%
9	18.587	2759	2767	2769	rBV2	468	842	0.24%	0.034%
0	18.655	2774	2780	2787	rBV3	426	1044	0.30%	0.042%
1	8.807	2806	2809	2812	rBV2	564	470	0.14%	0.019%
2	8.849	2815	2817	2825	rBV2	370	796	0.23%	0.032%
3	19.064	2832	2858	2859	rBV2	832	4182	1.21%	0.169%
4	19.080	2859	2861	2871	rBV3	682	1250	0.36%	0.051%
5	19.184	2871	2881	2885	rBV4	564	1462	0.42%	0.059%

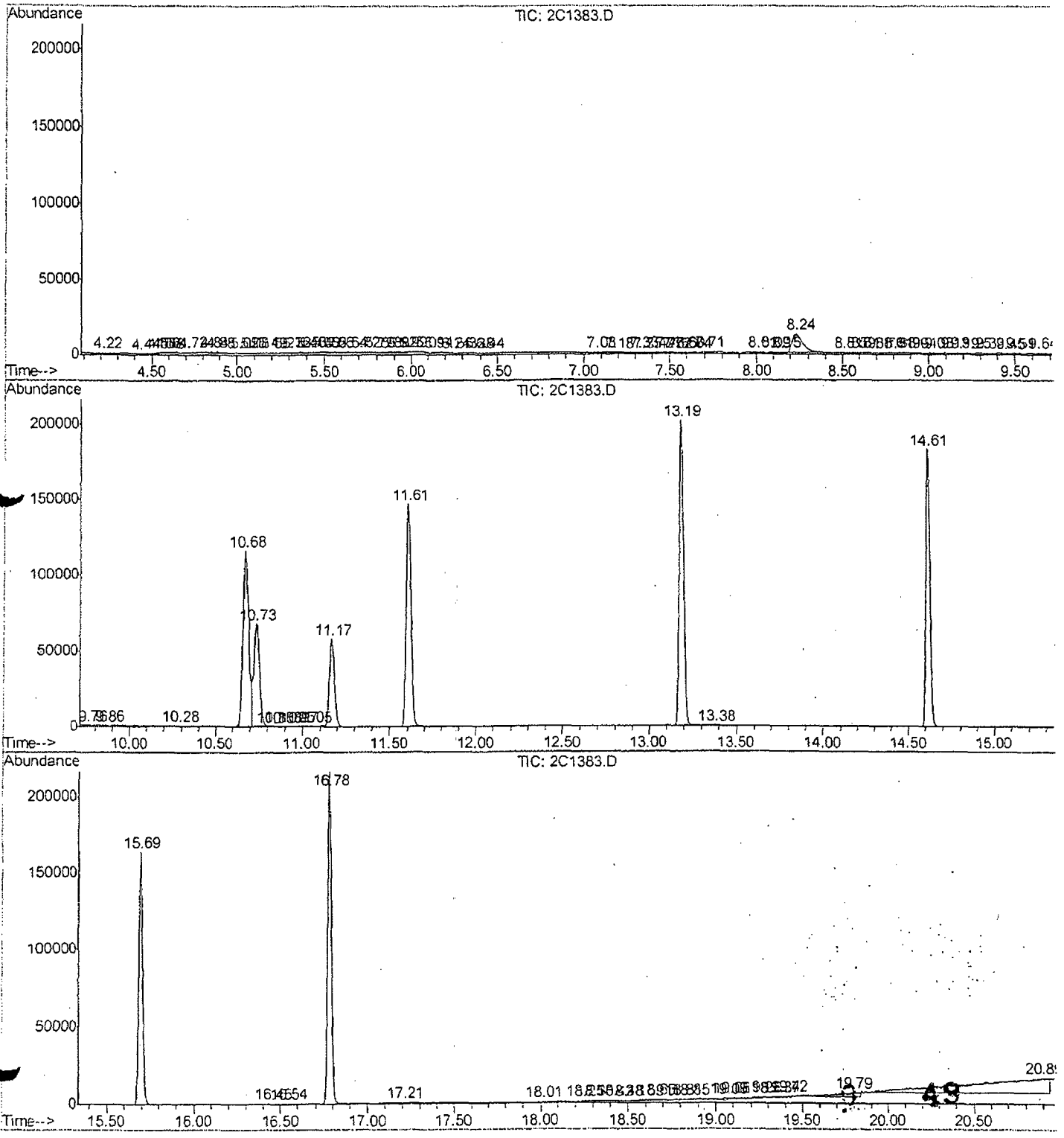
47

6	19.258	2885	2895	2897	rBV3	899	1529	0.44%	0.062%
7	19.368	2905	2916	2919	rBV5	765	1917	0.56%	0.077%
8	19.415	2919	2925	2929	rBV5	491	998	0.29%	0.040%
9	19.787	2929	2996	3006	rBV4	2729	32174	9.33%	1.300%
10	20.894	3021	3207	3216	rBV5	9266	281937	81.80%	11.395%

Sum of corrected areas: 2474250

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\MS2C\2C1383.D
Operator : KANYAV
Acquired : 19 Dec 2004 1:53 pm using AcqMethod M2C001
Instrument : ms2C
Sample Name: MB1
Misc Info : MS8206,V2C063,W,,,,1
Vial Number: 3
Quant File :M2C001.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\MS2C\2C1383.D Vial: 3
Acq On : 19 Dec 2004 1:53 pm Operator: KANYAV
Sample : MB1 Inst : ms2C
Misc : MS8206,V2C063,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

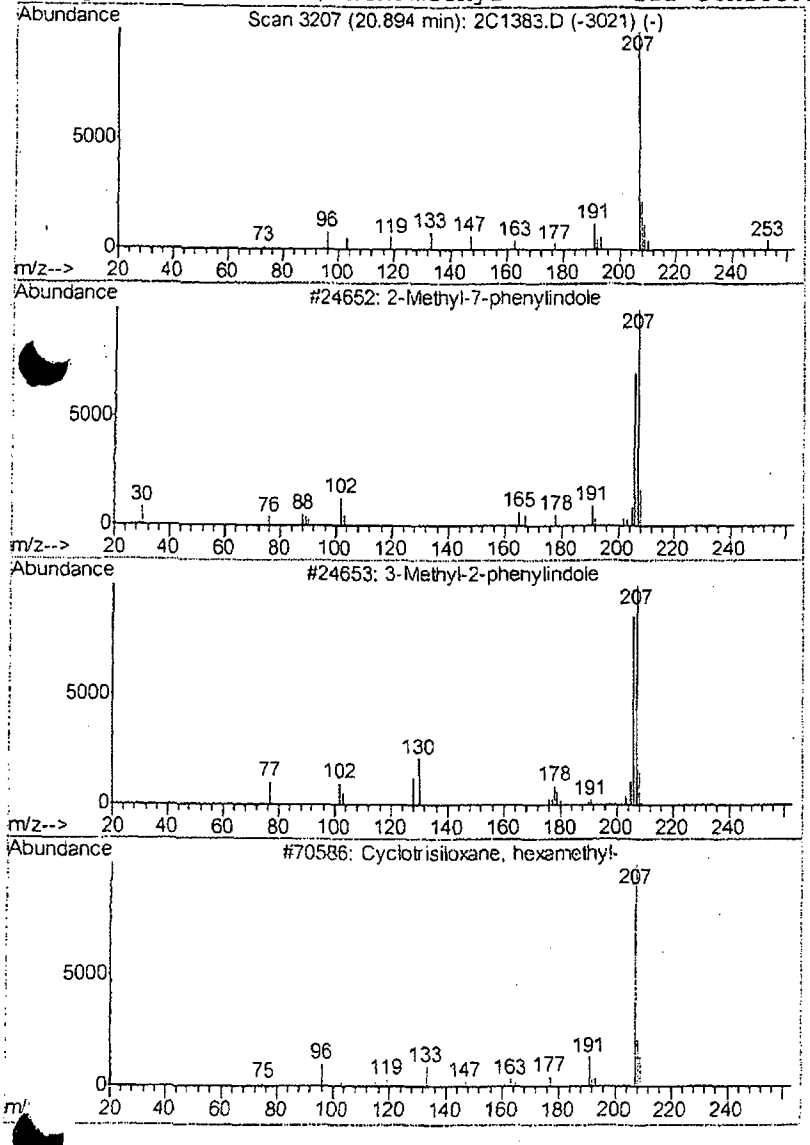
Qu Method : C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
Pl e : SW-846 Method 8260
Library : C:\DATABASE\NBS75K.L

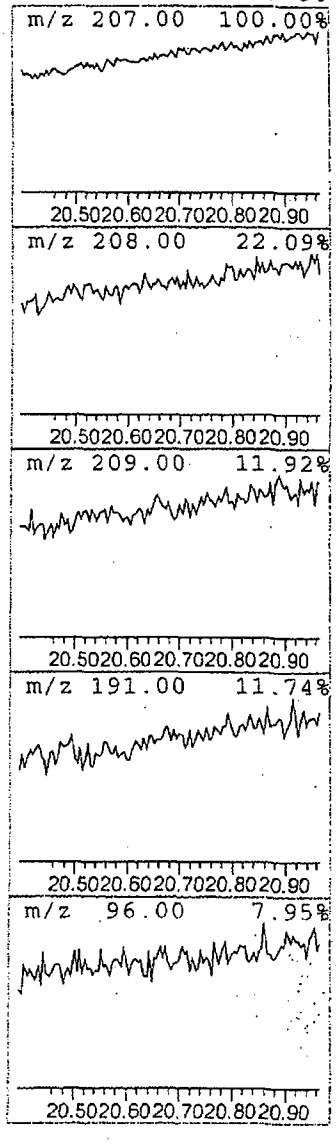
****

Peak Number 1 2-Methyl-7-phenylindole Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.89	43.13 ug/L	281937	1,4-dichlorobenzene-d4	16.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-phenylindole	207	C15H13N	000000-00-0	59
2	3-Methyl-2-phenylindole	207	C15H13N	010257-92-8	42
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	40
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	38





perator ID: KANYAV Date Acquired: 19 Dec 2004 1:53 pm
ata File: C:\MSDCHEM\1\DATA\MS2C\2C1383.D
ame: MB1
isc: MS8206,V2C063,W,,,,1
ethod: C:\MSDCHEM\1\METHODS\M2C001.M (RTE Integrator)
itle: SW-846 Method 8260
i y Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
-Methyl-7-phenyl...	20.89	43.1	ug/L	281937	5	16.78	326878	50.0

SEMI-VOLATILE

ACCUTEST.

GC/MS Analysis Case Narrative/Conformance/Non-Conformance Summary

Fraction Semi - Volatile

	NO	YES
1. Chromatograms Labeled/Compounds Identified *(Field Samples and Method Blanks)*		✓
2. GC/MS Tune Meet Criteria		✓
3. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series.		✓
4. GC/MS Calibration – Initial and Continuing Calibration Meet Method Requirements		✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds		✓
b. System Performance Check Compounds		✓
6. Blank Contamination	✓	
If yes, the sample result is qualified with a "B".		
7. Surrogate Recoveries Meet Criteria		✓
If the requirement is not met, refer to the Surrogate Summary for comment.		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓
If the requirement is not met, refer to MS/MSD Summary for comment.		
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓
If the requirement is not met, refer to the Internal Standard Summary for comment.		
10. Extraction Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		
11. Analysis Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		

12. Volatile Sample Preservation – pH should be < 2. *List any non-compliant samples below:*

Additional Comments:

QC Review Signature: Xiaohua Fang Date: 1/6/05

Form: RG04
Rev. Date: 2/9/00

Method Blank Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MB1	F46968.D	1	12/15/04	NAP	12/14/04	OP19011	EF2492

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	

Method Blank Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MB1	F46968.D	1	12/15/04	NAP	12/14/04	OP19011	EF2492

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	37%	10-88%
4165-62-2	Phenol-d5	31%	10-71%
118-79-6	2,4,6-Tribromophenol	72%	45-134%
4165-60-0	Nitrobenzene-d5	70%	32-128%

Method Blank Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MB1	F46968.D	1	12/15/04	NAP	12/14/04	OP19011	EF2492

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	69%	34-121%
1718-51-0	Terphenyl-d14	83%	41-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	4.05	4.4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-BS1	F47332.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.4	73	49-101
59-50-7	4-Chloro-3-methyl phenol	50	42.7	85	52-111
120-83-2	2,4-Dichlorophenol	50	41.4	83	54-110
105-67-9	2,4-Dimethylphenol	50	39.0	78	40-108
51-28-5	2,4-Dinitrophenol	100	83.6	84	32-129
534-52-1	4,6-Dinitro-o-cresol	50	46.8	94	49-125
95-48-7	2-Methylphenol	50	29.0	58	40-98
	3&4-Methylphenol	50	26.3	53	32-97
88-75-5	2-Nitrophenol	50	44.7	89	50-112
100-02-7	4-Nitrophenol	50	12.5	25	1-88
87-86-5	Pentachlorophenol	50	39.6	79	37-121
108-95-2	Phenol	50	14.8	30	1-84
95-95-4	2,4,5-Trichlorophenol	50	42.1	84	57-118
88-06-2	2,4,6-Trichlorophenol	50	40.6	81	55-114
83-32-9	Acenaphthene	50	38.4	77	53-109
208-96-8	Acenaphthylene	50	35.7	71	48-101
120-12-7	Anthracene	50	40.9	82	61-113
56-55-3	Benzo(a)anthracene	50	41.5	83	62-115
50-32-8	Benzo(a)pyrene	50	42.3	85	60-118
205-99-2	Benzo(b)fluoranthene	50	48.2	96	58-122
191-24-2	Benzo(g,h,i)perylene	50	34.0	68	52-131
207-08-9	Benzo(k)fluoranthene	50	39.9	80	51-131
101-55-3	4-Bromophenyl phenyl ether	50	43.8	88	57-115
85-68-7	Butyl benzyl phthalate	50	44.4	89	61-124
91-58-7	2-Chloronaphthalene	50	38.2	76	50-109
106-47-8	4-Chloroaniline	50	32.3	65	27-115
86-74-8	Carbazole	50	44.1	88	60-133
218-01-9	Chrysene	50	41.0	82	61-118
111-91-1	bis(2-Chloroethoxy)methane	50	42.0	84	50-115
111-44-4	bis(2-Chloroethyl)ether	50	41.8	84	45-113
108-60-1	bis(2-Chloroisopropyl)ether	50	41.1	82	46-109
7005-72-3	4-Chlorophenyl phenyl ether	50	42.3	85	54-115
95-50-1	1,2-Dichlorobenzene	50	39.1	78	41-106
541-73-1	1,3-Dichlorobenzene	50	36.9	74	38-102
106-46-7	1,4-Dichlorobenzene	50	38.2	76	39-103
121-14-2	2,4-Dinitrotoluene	50	45.4	91	62-118

Blank Spike Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-BS1	F47332.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	45.0	90	57-118
91-94-1	3,3'-Dichlorobenzidine	50	41.5	83	39-131
53-70-3	Dibenzo(a,h)anthracene	50	36.5	73	53-130
132-64-9	Dibenzofuran	50	40.4	81	55-115
84-74-2	Di-n-butyl phthalate	50	48.1	96	61-125
117-84-0	Di-n-octyl phthalate	50	55.6	111	55-140
84-66-2	Diethyl phthalate	50	44.7	89	57-118
131-11-3	Dimethyl phthalate	50	43.8	88	45-123
117-81-7	bis(2-Ethylhexyl)phthalate	50	47.2	94	57-128
206-44-0	Fluoranthene	50	43.5	87	60-122
86-73-7	Fluorene	50	42.0	84	54-112
118-74-1	Hexachlorobenzene	50	44.1	88	58-114
87-68-3	Hexachlorobutadiene	50	41.8	84	41-116
77-47-4	Hexachlorocyclopentadiene	100	62.4	62	19-107
67-72-1	Hexachloroethane	50	40.2	80	36-104
193-39-5	Indeno(1,2,3-cd)pyrene	50	36.7	73	52-131
78-59-1	Isophorone	50	42.3	85	46-113
91-57-6	2-Methylnaphthalene	50	40.3	81	47-109
88-74-4	2-Nitroaniline	50	47.1	94	53-122
99-09-2	3-Nitroaniline	50	38.6	77	43-127
100-01-6	4-Nitroaniline	50	44.3	89	47-140
91-20-3	Naphthalene	50	38.3	77	44-105
98-95-3	Nitrobenzene	50	39.9	80	46-108
621-64-7	N-Nitroso-di-n-propylamine	50	42.5	85	50-117
86-30-6	N-Nitrosodiphenylamine	50	39.9	80	60-121
85-01-8	Phenanthrene	50	39.6	79	59-110
129-00-0	Pyrene	50	39.4	79	60-115
120-82-1	1,2,4-Trichlorobenzene	50	39.6	79	44-103

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	35%	10-88%
4165-62-2	Phenol-d5	22%	10-71%
118-79-6	2,4,6-Tribromophenol	88%	45-134%
4165-60-0	Nitrobenzene-d5	76%	32-128%

Blank Spike Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-BS1	F47332.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	71%	34-121%
1718-51-0	Terphenyl-d14	76%	41-129%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MS	F47334.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
OP19011-MSD	F47335.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
N85706-1	F47333.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	N85706-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	88.7	89	84.7	85	5	30-117/28
59-50-7	4-Chloro-3-methyl phenol	ND		100	103	103	97.4	97	6	36-129/25
120-83-2	2,4-Dichlorophenol	ND		100	96.2	96	92.0	92	4	37-124/27
105-67-9	2,4-Dimethylphenol	ND		100	94.1	94	89.9	90	5	28-121/28
51-28-5	2,4-Dinitrophenol	ND		200	207	104	198	99	4	8-144/32
534-52-1	4,6-Dinitro-o-cresol	ND		100	113	113	105	105	7	24-142/29
95-48-7	2-Methylphenol	ND		100	78.5	79	74.3	74	5	30-114/28
	3&4-Methylphenol	ND		100	73.8	74	71.3	71	3	21-122/28
88-75-5	2-Nitrophenol	ND		100	103	103	98.4	98	5	34-123/27
100-02-7	4-Nitrophenol	ND		100	51.4	51	49.7	50	3	1-129/33
87-86-5	Pentachlorophenol	ND		100	97.4	97	89.1	89	9	36-143/24
108-95-2	Phenol	ND		100	51.0	51	48.4	48	5	1-102/32
95-95-4	2,4,5-Trichlorophenol	ND		100	99.8	100	95.0	95	5	41-131/24
88-06-2	2,4,6-Trichlorophenol	ND		100	96.6	97	92.6	93	4	43-121/25
83-32-9	Acenaphthene	ND		100	90.1	90	86.0	86	5	40-114/30
208-96-8	Acenaphthylene	ND		100	83.5	84	80.0	80	4	36-106/31
120-12-7	Anthracene	ND		100	96.0	96	89.6	90	7	54-119/23
56-55-3	Benzo(a)anthracene	ND		100	98.9	99	94.7	95	4	57-122/22
50-32-8	Benzo(a)pyrene	ND		100	102	102	96.7	97	5	53-126/23
205-99-2	Benzo(b)fluoranthene	ND		100	118	118	113	113	4	50-135/26
191-24-2	Benzo(g,h,i)perylene	ND		100	80.3	80	76.7	77	5	35-141/29
207-08-9	Benzo(k)fluoranthene	ND		100	97.0	97	90.7	91	7	37-144/24
101-55-3	4-Bromophenyl phenyl ether	ND		100	103	103	94.7	95	8	49-121/25
85-68-7	Butyl benzyl phthalate	ND		100	107	107	102	102	5	56-132/23
91-58-7	2-Chloronaphthalene	ND		100	89.9	90	86.1	86	4	34-115/30
106-47-8	4-Chloroaniline	ND		100	68.8	69	66.5	67	3	10-108/37
86-74-8	Carbazole	ND		100	104	104	96.4	96	8	49-146/22
218-01-9	Chrysene	ND		100	98.4	98	94.1	94	4	55-125/23
111-91-1	bis(2-Chloroethoxy)methane	ND		100	95.2	95	90.9	91	5	37-119/32
111-44-4	bis(2-Chloroethyl)ether	ND		100	95.5	96	91.1	91	5	32-122/37
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	94.1	94	88.9	89	6	34-112/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	98.7	99	94.2	94	5	43-118/27
95-50-1	1,2-Dichlorobenzene	ND		100	89.6	90	86.2	86	4	31-110/31
541-73-1	1,3-Dichlorobenzene	ND		100	84.7	85	81.6	82	4	27-107/32
106-46-7	1,4-Dichlorobenzene	ND		100	87.8	88	84.9	85	3	29-108/31
121-14-2	2,4-Dinitrotoluene	ND		100	108	108	102	102	6	50-125/31

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MS	F47334.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
OP19011-MSD	F47335.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
N85706-1	F47333.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Compound	N85706-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		100	106	106	101	101	5	45-124/28
91-94-1	3,3'-Dichlorobenzidine	ND		100	95.0	95	91.9	92	3	1-145/37
53-70-3	Dibenzo(a,h)anthracene	ND		100	86.8	87	82.2	82	5	40-138/27
132-64-9	Dibenzofuran	ND		100	94.3	94	90.3	90	4	42-119/28
84-74-2	Di-n-butyl phthalate	ND		100	113	113	104	104	8	54-131/22
117-84-0	Di-n-octyl phthalate	ND		100	136	136	126	126	8	49-151/25
84-66-2	Diethyl phthalate	ND		100	106	106	99.9	100	6	49-123/24
131-11-3	Dimethyl phthalate	ND		100	102	102	97.7	98	4	39-124/27
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	113	113	108	108	5	51-140/29
206-44-0	Fluoranthene	ND		100	103	103	95.1	95	8	52-129/22
86-73-7	Fluorene	ND		100	98.7	99	94.1	94	5	43-116/26
118-74-1	Hexachlorobenzene	ND		100	104	104	95.5	96	9	49-121/24
87-68-3	Hexachlorobutadiene	ND		100	97.5	98	94.4	94	3	30-126/33
77-47-4	Hexachlorocyclopentadiene	ND		200	148	74	140	70	6	1-109/41
67-72-1	Hexachloroethane	ND		100	92.7	93	89.8	90	3	22-113/34
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	87.2	87	82.7	83	5	40-139/28
78-59-1	Isophorone	ND		100	97.3	97	92.8	93	5	34-116/37
91-57-6	2-Methylnaphthalene	ND		100	92.6	93	88.7	89	4	28-123/32
88-74-4	2-Nitroaniline	ND		100	110	110	105	105	5	30-135/33
99-09-2	3-Nitroaniline	ND		100	86.5	87	83.3	83	4	15-134/35
100-01-6	4-Nitroaniline	ND		100	103	103	99.4	99	4	18-153/32
91-20-3	Naphthalene	ND		100	87.7	88	84.2	84	4	22-120/30
98-95-3	Nitrobenzene	ND		100	90.8	91	88.2	88	3	31-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		100	95.2	95	92.4	92	3	32-125/33
86-30-6	N-Nitrosodiphenylamine	ND		100	92.9	93	86.7	87	7	49-131/24
85-01-8	Phenanthrene	ND		100	93.3	93	86.7	87	7	51-117/23
129-00-0	Pyrene	ND		100	94.5	95	90.3	90	5	54-122/22
120-82-1	1,2,4-Trichlorobenzene	ND		100	90.4	90	87.3	87	3	27-115/31

CAS No.	Surrogate Recoveries	MS	MSD	N85706-1	Limits
367-12-4	2-Fluorophenol	54%	52%	37%	10-88%
4165-62-2	Phenol-d5	41%	38%	22%	10-71%
118-79-6	2,4,6-Tribromophenol	104%	97%	98%	45-134%
4165-60-0	Nitrobenzene-d5	86%	83%	88%	32-128%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19011-MS	F47334.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
OP19011-MSD	F47335.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504
N85706-1	F47333.D	1	01/04/05	NAP	12/14/04	OP19011	EF2504

The QC reported here applies to the following samples: **Method:** SW846 8270C

N85893-1, N85893-2

CAS No.	Surrogate Recoveries	MS	MSD	N85706-1	Limits
321-60-8	2-Fluorobiphenyl	83%	80%	83%	34-121%
1718-51-0	Terphenyl-d14	92%	89%	98%	41-129%

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2491-DFTPP	**Injection Date:**	12/14/04
Lab File ID:	F46939.D	**Injection Time:**	16:21
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	4643	45.7	Pass
68	Less than 2.0% of mass 69	52	0.51 (1.1) [a]	Pass
69	Mass 69 relative abundance	4650	45.8	Pass
70	Less than 2.0% of mass 69	0	0.0 (0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	5573	54.9	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	10149	100.0	Pass
199	5.0 - 9.0% of mass 198	607	6.0	Pass
275	10.0 - 30.0% of mass 198	2337	23.0	Pass
365	1.0 - 100.0% of mass 198	192	1.9	Pass
441	Present, but less than mass 443	1092	10.8 (77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	7223	71.2	Pass
443	17.0 - 23.0% of mass 442	1414	13.9 (19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2491-ICC2491	F46940.D	12/14/04	16:45	00:24	Initial cal 50
EF2491-IC2491	F46941.D	12/14/04	17:22	01:01	Initial cal 100
EF2491-IC2491	F46942.D	12/14/04	17:59	01:38	Initial cal 80
EF2491-IC2491	F46943.D	12/14/04	18:36	02:15	Initial cal 25
EF2491-IC2491	F46944.D	12/14/04	19:12	02:51	Initial cal 10
EF2491-IC2491	F46945.D	12/14/04	19:49	03:28	Initial cal 5
EF2491-IC2491	F46946.D	12/14/04	20:26	04:05	Initial cal 2
OP18875-MB1	F46948.D	12/14/04	21:39	05:18	Method Blank
ZZZZZZ	F46949.D	12/14/04	22:15	05:54	(unrelated sample)
ZZZZZZ	F46950.D	12/14/04	22:52	06:31	(unrelated sample)
ZZZZZZ	F46951.D	12/14/04	23:29	07:08	(unrelated sample)
ZZZZZZ	F46952.D	12/15/04	00:05	07:44	(unrelated sample)
ZZZZZZ	F46953.D	12/15/04	00:42	08:21	(unrelated sample)
ZZZZZZ	F46954.D	12/15/04	01:19	08:58	(unrelated sample)
ZZZZZZ	F46955.D	12/15/04	01:56	09:35	(unrelated sample)
ZZZZZZ	F46956.D	12/15/04	02:32	10:11	(unrelated sample)
ZZZZZZ	F46957.D	12/15/04	03:09	10:48	(unrelated sample)
ZZZZZZ	F46958.D	12/15/04	03:47	11:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2492-DFTPP	**Injection Date:**	12/15/04
Lab File ID:	F46960.D	**Injection Time:**	08:40
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	3544	40.4		Pass
68	Less than 2.0% of mass 69	17	0.19	(0.48) [a]	Pass
69	Mass 69 relative abundance	3552	40.5		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	4398	50.1		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	8780	100.0		Pass
199	5.0 - 9.0% of mass 198	657	7.5		Pass
275	10.0 - 30.0% of mass 198	2002	22.8		Pass
365	1.0 - 100.0% of mass 198	193	2.2		Pass
441	Present, but less than mass 443	1018	11.6	(80.8) [b]	Pass
442	40.0 - 100.0% of mass 198	6686	76.2		Pass
443	17.0 - 23.0% of mass 442	1260	14.4	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2492-CC2491	F46961.D	12/15/04	08:54	00:14	Continuing cal 50
OP18822-MB1	F46962.D	12/15/04	09:31	00:51	Method Blank
OP18822-BS1	F46966.D	12/15/04	10:08	01:28	Blank Spike
ZZZZZZ	F46963.D	12/15/04	10:44	02:04	(unrelated sample)
ZZZZZZ	F46964.D	12/15/04	11:21	02:41	(unrelated sample)
ZZZZZZ	F46965.D	12/15/04	11:57	03:17	(unrelated sample)
OP18958-MB1	F46967.D	12/15/04	12:34	03:54	Method Blank
OP19011-MB1	F46968.D	12/15/04	13:11	04:31	Method Blank
ZZZZZZ	F46969.D	12/15/04	13:47	05:07	(unrelated sample)
OP18902-MB1	F46970.D	12/15/04	14:25	05:45	Method Blank
OP18902-BS1	F46971.D	12/15/04	15:01	06:21	Blank Spike
ZZZZZZ	F46972.D	12/15/04	15:37	06:57	(unrelated sample)
ZZZZZZ	F46973.D	12/15/04	16:14	07:34	(unrelated sample)
N85098-8	F46974.D	12/15/04	16:51	08:11	(used for QC only; not part of job N85893)
OP18902-MS	F46975.D	12/15/04	17:27	08:47	Matrix Spike
OP18902-MSD	F46976.D	12/15/04	18:04	09:24	Matrix Spike Duplicate
ZZZZZZ	F46977.D	12/15/04	18:41	10:01	(unrelated sample)
ZZZZZZ	F46978.D	12/15/04	19:17	10:37	(unrelated sample)
ZZZZZZ	F46979.D	12/15/04	19:54	11:14	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2492-DFTPP	**Injection Date:**	12/15/04
Lab File ID:	F46960.D	**Injection Time:**	08:40
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F46980.D	12/15/04	20:31	11:51	(unrelated sample)
N85602-1	F46983.D	12/15/04	23:35	14:55	(used for QC only; not part of job N85893)
OP18980-MS	F46984.D	12/16/04	00:12	15:32	Matrix Spike
OP18980-MSD	F46985.D	12/16/04	00:49	16:09	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2503-DFTPP	**Injection Date:**	12/31/04
Lab File ID:	F47278.D	**Injection Time:**	03:27
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	6762	40.3		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	6499	38.7		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	8341	49.7		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	16785	100.0		Pass
199	5.0 - 9.0% of mass 198	1155	6.9		Pass
275	10.0 - 30.0% of mass 198	4170	24.8		Pass
365	1.0 - 100.0% of mass 198	425	2.5		Pass
441	Present, but less than mass 443	2120	12.6	(78.4) [b]	Pass
442	40.0 - 100.0% of mass 198	14427	86.0		Pass
443	17.0 - 23.0% of mass 442	2704	16.1	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2503-CC2491	F47279.D	12/31/04	03:41	00:14	Continuing cal 50
OP19078-MB1	F47280.D	12/31/04	04:53	01:26	Method Blank
ZZZZZZ	F47281.D	12/31/04	05:29	02:02	(unrelated sample)
N85893-1	F47282.D	12/31/04	06:05	02:38	WELL AZ
N85893-2	F47283.D	12/31/04	06:41	03:14	FB-1
ZZZZZZ	F47284.D	12/31/04	07:17	03:50	(unrelated sample)
ZZZZZZ	F47285.D	12/31/04	07:53	04:26	(unrelated sample)
ZZZZZZ	F47286.D	12/31/04	08:29	05:02	(unrelated sample)
ZZZZZZ	F47287.D	12/31/04	09:05	05:38	(unrelated sample)
ZZZZZZ	F47288.D	12/31/04	09:41	06:14	(unrelated sample)
ZZZZZZ	F47289.D	12/31/04	10:16	06:49	(unrelated sample)
ZZZZZZ	F47290.D	12/31/04	10:52	07:25	(unrelated sample)
ZZZZZZ	F47291.D	12/31/04	11:27	08:00	(unrelated sample)
ZZZZZZ	F47292.D	12/31/04	12:03	08:36	(unrelated sample)
ZZZZZZ	F47293.D	12/31/04	12:39	09:12	(unrelated sample)
ZZZZZZ	F47294.D	12/31/04	13:15	09:48	(unrelated sample)
ZZZZZZ	F47295.D	12/31/04	13:50	10:23	(unrelated sample)
ZZZZZZ	F47296.D	12/31/04	14:27	11:00	(unrelated sample)
ZZZZZZ	F47297.D	12/31/04	15:03	11:36	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2503-DFTPP	**Injection Date:**	12/31/04
Lab File ID:	F47278.D	**Injection Time:**	03:27
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F47302.D	12/31/04	20:24	16:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2504-DFTPP	**Injection Date:**	01/04/05
Lab File ID:	F47324.D	**Injection Time:**	08:28
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	4630	41.0		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	4689	41.5		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	5600	49.6		Pass
197	Less than 1.0% of mass 198	53	0.47		Pass
198	Base peak, 100% relative abundance	11292	100.0		Pass
199	5.0 - 9.0% of mass 198	820	7.3		Pass
275	10.0 - 30.0% of mass 198	2715	24.0		Pass
365	1.0 - 100.0% of mass 198	303	2.7		Pass
441	Present, but less than mass 443	1446	12.8	(73.7) [b]	Pass
442	40.0 - 100.0% of mass 198	9828	87.0		Pass
443	17.0 - 23.0% of mass 442	1961	17.4	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2504-CC2491	F47325.D	01/04/05	09:23	00:55	Continuing cal 25
OP19176-MB1	F47326.D	01/04/05	09:59	01:31	Method Blank
OP19176-BS1	F47327.D	01/04/05	10:35	02:07	Blank Spike
OP19078-BS1	F47328.D	01/04/05	11:11	02:43	Blank Spike
N86593-2	F47329.D	01/04/05	11:46	03:18	(used for QC only; not part of job N85893)
OP19078-MS	F47330.D	01/04/05	12:22	03:54	Matrix Spike
OP19078-MSD	F47331.D	01/04/05	12:58	04:30	Matrix Spike Duplicate
OP19011-BS1	F47332.D	01/04/05	13:35	05:07	Blank Spike
N85706-1	F47333.D	01/04/05	14:10	05:42	(used for QC only; not part of job N85893)
OP19011-MS	F47334.D	01/04/05	14:46	06:18	Matrix Spike
OP19011-MSD	F47335.D	01/04/05	15:21	06:53	Matrix Spike Duplicate
ZZZZZZ	F47336.D	01/04/05	15:57	07:29	(unrelated sample)
OP19014-MS	F47337.D	01/04/05	16:33	08:05	Matrix Spike
OP19014-MSD	F47341.D	01/04/05	17:09	08:41	Matrix Spike Duplicate
N87336-10	F47338.D	01/04/05	17:45	09:17	(used for QC only; not part of job N85893)
OP19176-MS	F47339.D	01/04/05	18:20	09:52	Matrix Spike
OP19176-MSD	F47340.D	01/04/05	18:56	10:28	Matrix Spike Duplicate
OP19128-MS	F47342.D	01/04/05	19:32	11:04	Matrix Spike
OP19128-MSD	F47343.D	01/04/05	20:08	11:40	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2504-DFTPP	**Injection Date:**	01/04/05
Lab File ID:	F47324.D	**Injection Time:**	08:28
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP19072-MB1	F47344.D	01/04/05	22:31	14:03	Method Blank
OP19072-BS1	F47345.D	01/04/05	23:06	14:38	Blank Spike
ZZZZZZ	F47346.D	01/04/05	23:42	15:14	(unrelated sample)
ZZZZZZ	F47347.D	01/05/05	00:18	15:50	(unrelated sample)
ZZZZZZ	F47348.D	01/05/05	00:53	16:25	(unrelated sample)
ZZZZZZ	F47349.D	01/05/05	01:28	17:00	(unrelated sample)
ZZZZZZ	F47350.D	01/05/05	02:04	17:36	(unrelated sample)
ZZZZZZ	F47351.D	01/05/05	02:39	18:11	(unrelated sample)
ZZZZZZ	F47352.D	01/05/05	03:15	18:47	(unrelated sample)
ZZZZZZ	F47353.D	01/05/05	03:51	19:23	(unrelated sample)
ZZZZZZ	F47354.D	01/05/05	04:27	19:59	(unrelated sample)
ZZZZZZ	F47355.D	01/05/05	05:02	20:34	(unrelated sample)
ZZZZZZ	F47356.D	01/05/05	05:38	21:10	(unrelated sample)
N86590-1	F47357.D	01/05/05	06:14	21:46	(used for QC only; not part of job N85893)
OP19072-MS	F47358.D	01/05/05	06:49	22:21	Matrix Spike
OP19072-MSD	F47359.D	01/05/05	07:25	22:57	Matrix Spike Duplicate
ZZZZZZ	F47360.D	01/05/05	08:01	23:33	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2492-CC2491	**Injection Date:**	12/15/04
Lab File ID:	F46961.D	**Injection Time:**	08:54
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	329763	6.51	1237145	9.14	609484	13.24	1023602	16.72	955259	22.22	580571	24.56
Upper Limit [a]	659526	7.01	2474290	9.64	1218968	13.74	2047204	17.22	1910518	22.72	1161142	25.06
Lower Limit [b]	164882	6.01	618573	8.64	304742	12.74	511801	16.22	477630	21.72	290286	24.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP18822-MB1	316069	6.50	1229840	9.13	621513	13.23	1072770	16.71	1007542	22.21	607739	24.56
OP18822-BS1	303460	6.50	1175722	9.14	592964	13.24	1008445	16.72	941666	22.22	566076	24.56
ZZZZZZ	328115	6.50	1246253	9.14	652058	13.25	1051957	16.74	901100	22.22	555843	24.56
ZZZZZZ	321755	6.50	1205661	9.13	597670	13.24	971270	16.71	790814	22.21	443182	24.56
ZZZZZZ	299205	6.50	1164225	9.13	591228	13.23	1019980	16.71	890696	22.21	507244	24.56
OP18958-MB1	348519	6.49	1326745	9.13	671201	13.23	1118445	16.71	985750	22.21	582961	24.56
OP19011-MB1	319360	6.50	1213909	9.13	605159	13.23	1036319	16.71	896441	22.21	517876	24.56
ZZZZZZ	290625	6.50	1116317	9.13	564049	13.23	967309	16.71	875617	22.21	497666	24.56
OP18902-MB1	393804	6.50	1499896	9.13	766870	13.23	1306290	16.71	1195627	22.21	702470	24.56
OP18902-BS1	341453	6.50	1298729	9.14	634915	13.24	1031634	16.71	967424	22.22	602061	24.56
ZZZZZZ	308996	6.49	1154654	9.13	568426	13.23	916569	16.71	815766	22.21	452673	24.56
ZZZZZZ	307620	6.50	1150469	9.13	561329	13.23	896326	16.71	806729	22.20	481754	24.56
N85098-8	301251	6.49	1142244	9.13	565372	13.23	912014	16.71	846194	22.21	485275	24.56
OP18902-MS	342684	6.50	1268736	9.14	606210	13.23	971820	16.71	963618	22.22	530459	24.56
OP18902-MSD	377956	6.50	1405494	9.14	665371	13.24	1060813	16.72	1076893	22.22	553943	24.56
ZZZZZZ	298463	6.50	1051864	9.13	480622	13.22	793939	16.71	496718	22.21	166300*	24.56
ZZZZZZ	281476	6.50	999864	9.14	453816	13.23	729066	16.71	507273	22.20	170102*	24.54
ZZZZZZ	257973	6.51	925524	9.14	420138	13.23	688846	16.71	480621	22.20	166042*	24.54
ZZZZZZ	272051	6.51	930516	9.14	403053	13.23	630672	16.71	426435*	22.20	141205*	24.54
N85602-1	283337	6.50	1024955	9.14	483651	13.23	761971	16.71	549932	22.20	193786*	24.55
OP18980-MS	327824	6.51	1202188	9.14	561897	13.24	896469	16.72	675759	22.22	244223*	24.55
OP18980-MSD	270248	6.50	987409	9.14	462580	13.24	748481	16.71	557504	22.21	186344*	24.55

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2503-CC2491	Injection Date:	12/31/04
Lab File ID:	F47279.D	Injection Time:	03:41
Instrument ID:	GCMSF	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	393671	6.34	1502855	8.96	797227	13.05	1376917	16.53	1379319	22.07	853382	24.39
Upper Limit [a]	787342	6.84	3005710	9.46	1594454	13.55	2753834	17.03	2758638	22.57	1706764	24.89
Lower Limit [b]	196836	5.84	751428	8.46	398614	12.55	688459	16.03	689660	21.57	426691	23.89
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19078-MB1	397709	6.33	1549240	8.95	830963	13.04	1453389	16.52	1434540	22.06	904610	24.38
ZZZZZZ	361641	6.33	1445813	8.95	771303	13.04	1355179	16.52	1352152	22.06	870535	24.38
N85893-1	393345	6.34	1544503	8.96	829676	13.04	1437523	16.52	1405309	22.06	908747	24.38
N85893-2	401821	6.33	1595622	8.96	839326	13.04	1453838	16.52	1429040	22.06	905723	24.38
ZZZZZZ	433467	6.33	1722372	8.95	915096	13.04	1609304	16.52	1630647	22.06	1023757	24.38
ZZZZZZ	403960	6.33	1605282	8.95	859287	13.04	1489886	16.52	1456736	22.06	750045	24.38
ZZZZZZ	1254*	6.50	1759419	8.95	941165	13.04	1629379	16.52	1626388	22.06	1038280	24.38
ZZZZZZ	422722	6.33	1690634	8.95	900866	13.04	1637772	16.52	1608884	22.06	1009821	24.38
ZZZZZZ	404460	6.33	1606256	8.95	864324	13.04	1520495	16.52	1528720	22.06	943447	24.38
ZZZZZZ	445379	6.33	1782272	8.96	972898	13.04	1671985	16.53	1647242	22.06	995740	24.38
ZZZZZZ	398332	6.33	1583617	8.95	846897	13.04	1474179	16.52	1487988	22.06	923638	24.38
ZZZZZZ	390337	6.33	1568343	8.96	842001	13.04	1446713	16.52	1433089	22.06	837623	24.38
ZZZZZZ	418423	6.34	1645497	8.97	895625	13.05	1543768	16.52	1518431	22.06	923737	24.38
ZZZZZZ	421910	6.33	1687721	8.96	917468	13.04	1580669	16.52	1542562	22.06	934714	24.38
ZZZZZZ	519888	6.33	2064770	8.96	1098840	13.04	1916927	16.53	1924936	22.06	1158784	24.39
ZZZZZZ	414841	6.33	1660814	8.95	885401	13.04	1563339	16.52	1506972	22.06	892700	24.38
ZZZZZZ	415847	6.33	1648819	8.95	880949	13.04	1508687	16.52	1434345	22.06	700747	24.38
ZZZZZZ	445802	6.33	1777495	8.95	960569	13.04	1684146	16.53	1644513	22.07	765618	24.40
ZZZZZZ	366774	6.34	1457169	8.96	768980	13.04	1330587	16.52	1309446	22.06	724484	24.38

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2504-CC2491	**Injection Date:**	01/04/05
Lab File ID:	F47325.D	**Injection Time:**	09:23
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	329243	6.32	1272297	8.94	691200	13.03	1219532	16.50	1221144	22.04	738072	24.37
Upper Limit [a]	658486	6.82	2544594	9.44	1382400	13.53	2439064	17.00	2442288	22.54	1476144	24.87
Lower Limit [b]	164622	5.82	636149	8.44	345600	12.53	609766	16.00	610572	21.54	369036	23.87

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19176-MB1	359622	6.32	1387420	8.94	708917	13.03	1300682	16.50	1250516	22.04	764887	24.36
OP19176-BS1	389501	6.32	1495466	8.94	815794	13.03	1423482	16.51	1438661	22.05	865084	24.37
OP19078-BS1	354750	6.32	1374663	8.95	749260	13.03	1303989	16.51	1336642	22.05	809665	24.37
N86593-2	370335	6.32	1409286	8.94	708579	13.03	1287530	16.50	1213707	22.04	725213	24.37
OP19078-MS	392255	6.32	1522798	8.95	829530	13.03	1461301	16.51	1468024	22.05	887098	24.37
OP19078-MSD	380849	6.32	1474268	8.95	804731	13.03	1410721	16.51	1410773	22.05	843445	24.37
OP19011-BS1	379975	6.33	1476576	8.95	813425	13.03	1413349	16.51	1432416	22.05	842340	24.37
N85706-1	330873	6.33	1272627	8.94	647045	13.02	1158089	16.50	1095379	22.04	646358	24.37
OP19011-MS	334118	6.32	1298638	8.95	702401	13.03	1219056	16.51	1215773	22.05	702539	24.37
OP19011-MSD	338685	6.33	1307671	8.95	698902	13.03	1241377	16.51	1200889	22.05	703793	24.37
ZZZZZZ	164254*	6.33	632525*	8.94	318916*	13.02	569326*	16.50	519200*	22.04	284758*	24.36
OP19014-MS	390460	6.32	1527329	8.95	833681	13.03	1467078	16.52	1523094	22.06	911319	24.38
OP19014-MSD	376168	6.32	1464109	8.94	801191	13.03	1398709	16.51	1410952	22.05	834798	24.37
N87336-10	233544	6.33	911983	8.94	475566	13.02	887642	16.50	842035	22.04	455797	24.37
OP19176-MS	257997	6.32	1030538	8.94	528364	13.02	919381	16.50	886113	22.04	467917	24.37
OP19176-MSD	236445	6.32	957568	8.93	496089	13.02	872775	16.50	825244	22.04	383295	24.37
OP19128-MS	371462	6.32	1431909	8.94	799652	13.03	1408724	16.51	1283553	22.05	556898	24.37
OP19128-MSD	360124	6.33	1385749	8.94	775099	13.03	1350156	16.51	1206086	22.05	501323	24.37
OP19072-MB1	330851	6.33	1268437	8.94	657638	13.02	1174147	16.50	1002627	22.04	456682	24.37
OP19072-BS1	332067	6.33	1282695	8.95	689787	13.03	1190827	16.51	1081014	22.05	460474	24.37
ZZZZZZ	314588	6.33	1213576	8.94	620183	13.03	1126371	16.50	977393	22.04	430841	24.37
ZZZZZZ	297021	6.33	1115194	8.94	606628	13.03	1058340	16.50	948714	22.04	415370	24.37
ZZZZZZ	314442	6.34	1252437	8.97	692223	13.13	642101	16.67	1132765	22.08	433172	24.38
ZZZZZZ	293461	6.33	1144853	8.94	618780	13.03	1111461	16.50	969451	22.04	423141	24.37
ZZZZZZ	310876	6.33	1186689	8.94	627374	13.03	1101899	16.50	995478	22.04	434072	24.37
ZZZZZZ	322233	6.33	1261392	8.95	674584	13.03	1122865	16.50	960703	22.04	412882	24.37
ZZZZZZ	325028	6.33	1242533	8.94	638095	13.03	1087624	16.50	998189	22.04	439427	24.37
ZZZZZZ	350247	6.33	1341949	8.94	689474	13.03	1200118	16.51	1009550	22.04	444059	24.37
ZZZZZZ	303037	6.33	1154610	8.94	607138	13.02	1024654	16.50	936393	22.04	401839	24.37
ZZZZZZ	312767	6.33	1202934	8.96	654887	13.03	1167664	16.54	721120	22.08	182607*	24.41
ZZZZZZ	316753	6.33	1227106	8.94	644283	13.03	1168567	16.52	957995	22.06	371693	24.38
N86590-1	310292	6.33	1205772	8.94	650871	13.04	1154411	16.53	899579	22.06	300415*	24.38
OP19072-MS	310721	6.33	1196968	8.95	645344	13.03	1139543	16.53	912094	22.06	331731*	24.38
OP19072-MSD	310316	6.33	1191607	8.95	638445	13.03	1128439	16.52	918682	22.06	348399*	24.38
ZZZZZZ	309893	6.34	1174889	8.96	615804	13.03	1014162	16.51	814251	22.05	319009*	24.37

Semivolatile Internal Standard Area Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2504-CC2491	**Injection Date:**	01/04/05
Lab File ID:	F47325.D	**Injection Time:**	09:23
Instrument ID:	GCMSF	**Method:**	SW846 8270C

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
N85893-1	F47282.D	40.0	28.0	86.0	70.0	66.0	84.0
N85893-2	F47283.D	37.0	34.0	89.0	85.0	79.0	90.0
OP19011-BS1	F47332.D	35.0	22.0	88.0	76.0	71.0	76.0
OP19011-MB1	F46968.D	37.0	31.0	72.0	70.0	69.0	83.0
OP19011-MB1	P11097.D	49.0	31.0	103.0	77.0	71.0	85.0
OP19011-MS	F47334.D	54.0	41.0	104.0	86.0	83.0	92.0
OP19011-MSD	F47335.D	52.0	38.0	97.0	83.0	80.0	89.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-88%
S2 = Phenol-d5	10-71%
S3 = 2,4,6-Tribromophenol	45-134%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	34-121%
S6 = Terphenyl-d14	41-129%

Initial Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration

Calibration Files
2 =F46946.D 5 =F46945.D 25 =F46943.D 80 =F46942.D
100 =F46941.D 50 =F46940.D 10 =F46944.D =

Compound	2	5	25	80	100	50	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2) 1,4-Dioxane	0.829	0.741	0.653	0.583	0.594	0.628	0.708	0.676	13.05
3) Pyridine	1.702	1.719	1.682	1.489	1.514	1.594	1.780	1.640	6.69
4) N-Nitrosodim	0.621	0.550	0.532	0.481	0.488	0.514	0.581	0.538	9.37
5) 2-Fluorophen	1.486	1.528	1.409	1.250	1.257	1.344	1.491	1.395	8.19
6) Indene	2.452	2.509	2.532	2.320	2.349	2.429	2.670	2.466	4.81
7) Cumene	3.078	3.209	3.184	3.030	3.075	3.134	3.361	3.153	3.54
8) Phenol-d5	1.825	1.872	1.724	1.450	1.450	1.605	1.829	1.679	10.69
9) Phenol	1.969	1.989	1.927	1.569	1.567	1.765	2.048	1.833	10.98
10) Aniline	2.140	2.285	2.232	1.837	1.852	2.040	2.380	2.110	9.96
11) bis(2-Chloro	1.345	1.370	1.348	1.213	1.213	1.276	1.418	1.312	6.05
12) Benzaldehyde	0.275	0.361	0.593	0.238	0.181	0.401	0.405	0.351	38.87
13) 2-Chlorophen	1.433	1.462	1.447	1.271	1.281	1.366	1.537	1.399	7.02
14) Decane	1.292	1.363	1.313	1.174	1.166	1.231	1.423	1.280	7.47
15) 1,3-Dichloro	1.535	1.598	1.584	1.468	1.492	1.529	1.669	1.554	4.43
16) 1,4-Dichloro	1.637	1.653	1.595	1.490	1.499	1.552	1.690	1.588	4.87
17) Benzyl alcoh	0.909	0.925	0.949	0.823	0.826	0.901	0.985	0.903	6.67
18) 1,2-Dichloro	1.495	1.533	1.489	1.365	1.382	1.441	1.584	1.470	5.39
19) Acetophenone	1.926	1.959	1.948	1.703	1.731	1.837	2.056	1.880	6.85
20) 2-Methylphen	1.309	1.336	1.303	1.103	1.116	1.210	1.370	1.250	8.60
21) 2,2'-oxybis(	0.460	0.466	0.459	0.419	0.420	0.437	0.490	0.450	5.74
22) 3&4-Methylph	1.348	1.374	1.388	1.150	1.163	1.276	1.455	1.308	8.87
23) n-Nitroso-di	0.758	0.811	0.823	0.717	0.728	0.772	0.850	0.780	6.36
24) Hexachloroet	0.479	0.507	0.525	0.500	0.511	0.515	0.547	0.512	4.14
25) I Naphthalene-d8	ISTD								
26) Nitrobenzene	0.349	0.372	0.390	0.371	0.378	0.383	0.408	0.379	4.84
27) Nitrobenzene	0.161	0.172	0.181	0.172	0.176	0.177	0.188	0.175	4.81
28) Quinoline	0.664	0.679	0.691	0.618	0.640	0.662	0.727	0.669	5.29
29) Isophorone	0.607	0.637	0.645	0.580	0.593	0.614	0.681	0.622	5.56
30) 2-Nitropheno	0.131	0.154	0.183	0.180	0.184	0.181	0.184	0.171	12.07
31) 2,4-Dimethyl	0.317	0.338	0.349	0.313	0.322	0.334	0.355	0.332	4.81
32) Benzoic acid			0.238	0.253	0.263	0.244	0.181	0.236	13.56
33) bis(2-Chloro	0.382	0.398	0.396	0.364	0.370	0.376	0.418	0.386	4.90
34) 2,4-Dichloro	0.251	0.264	0.278	0.256	0.262	0.269	0.289	0.267	4.90
35) 1,3,5-Trichl	0.335	0.343	0.335	0.326	0.331	0.331	0.354	0.337	2.75
36) 1,2,4-Trichl	0.324	0.326	0.322	0.313	0.320	0.318	0.343	0.324	2.94
37) 1,2,3-Trichl	0.310	0.314	0.309	0.297	0.306	0.305	0.329	0.310	3.22
38) alpha-Terpin	0.268	0.278	0.277	0.241	0.240	0.255	0.297	0.265	7.90
39) Naphthalene	1.111	1.110	1.063	0.983	0.998	1.027	1.137	1.061	5.68
40) 4-Chloroanil	0.404	0.441	0.444	0.389	0.396	0.421	0.470	0.423	6.98
41) 2,3-Dichloro	0.311	0.332	0.335	0.299	0.307	0.322	0.352	0.323	5.68
42) Caprolactam	0.100	0.121	0.137	0.117	0.122	0.128	0.139	0.124	10.68
43) Hexachlorobu	0.182	0.183	0.184	0.182	0.186	0.183	0.195	0.185	2.54
44) 4-Chloro-3-m	0.248	0.276	0.296	0.265	0.274	0.284	0.300	0.278	6.47
45) 2-Methylnaph	0.673	0.693	0.702	0.641	0.657	0.675	0.740	0.685	4.77

Initial Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

46)	1-Methylnaph	0.655	0.676	0.678	0.620	0.636	0.659	0.713		0.662	4.56
47)	Dimethylnaph	0.565	0.591	0.601	0.541	0.552	0.578	0.633		0.580	5.38
48)	I Acenaphthene-d10	----------ISTD----------									
49)	Hexachlorocy	0.180	0.209	0.304	0.358	0.369	0.335	0.283		0.291	24.99
	----- Linear regression ----- Coefficient = 0.9984										
	Response Ratio = -0.05128 + 0.37242 *A										
50)	2,4,6-Trichl	0.324	0.369	0.397	0.395	0.405	0.392	0.406		0.384	7.56
51)	2,4,5-Trichl	0.369	0.401	0.438	0.433	0.444	0.435	0.445		0.424	6.68
52)	2-Fluorobiph	1.530	1.522	1.507	1.523	1.537	1.491	1.591		1.529	2.06
53)	2-Chloronaph	1.222	1.229	1.212	1.177	1.183	1.182	1.281		1.212	3.03
54)	Biphenyl	1.692	1.699	1.663	1.598	1.598	1.617	1.763		1.662	3.70
55)	2-Nitroanili	0.239	0.305	0.341	0.297	0.299	0.317	0.349		0.307	11.70
56)	Dimethylphth	1.184	1.256	1.289	1.220	1.250	1.255	1.331		1.255	3.72
57)	Acenaphthyle	1.782	1.899	1.991	1.912	1.961	1.944	2.056		1.935	4.41
58)	2,6-Dinitrot	0.162	0.221	0.278	0.279	0.285	0.275	0.267		0.252	17.95
	----- Linear regression ----- Coefficient = 0.9997										
	Response Ratio = -0.00705 + 0.28508 *A										
59)	3-Nitroanili	0.228	0.287	0.337	0.309	0.316	0.322	0.341		0.306	12.65
60)	Acenaphthene	1.241	1.243	1.226	1.177	1.209	1.203	1.305		1.229	3.31
61)	2,4-Dinitrop	0.064	0.137	0.168	0.175	0.151	0.108			0.134	31.28
	----- Linear regression ----- Coefficient = 0.9975										
	Response Ratio = -0.04432 + 0.17979 *A										
62)	4-Nitropheno	0.141	0.170	0.165	0.170	0.173	0.167			0.164	7.28
63)	Dibenzofuran	1.716	1.734	1.674	1.597	1.629	1.642	1.786		1.683	3.94
64)	2,4-Dinitrot	0.217	0.315	0.381	0.364	0.378	0.371	0.371		0.342	17.45
	----- Linear regression ----- Coefficient = 0.9993										
	Response Ratio = -0.00471 + 0.37513 *A										
65)	2,3,4,6-Tetr	0.220	0.284	0.331	0.325	0.339	0.329	0.328		0.308	13.81
66)	Diethylphtha	1.160	1.241	1.267	1.167	1.195	1.227	1.320		1.225	4.67
67)	Fluorene	1.288	1.341	1.341	1.259	1.288	1.303	1.411		1.319	3.81
68)	4-Chlorophen	0.671	0.674	0.682	0.655	0.675	0.662	0.710		0.676	2.56
69)	4-Nitroanili	0.211	0.286	0.327	0.271	0.267	0.303	0.328		0.285	14.31
70)	I Phenanthrene-d10	----------ISTD----------									
71)	4,6-Dinitro-	0.058	0.106	0.132	0.135	0.117	0.089			0.106	27.52
	----- Linear regression ----- Coefficient = 0.9973										
	Response Ratio = -0.01635 + 0.13942 *A										
72)	Atrazine	0.096	0.121	0.132	0.110	0.106	0.118	0.134		0.117	11.75
73)	n-Nitrosodip	0.533	0.563	0.569	0.556	0.562	0.559	0.595		0.563	3.24
74)	1,2-Diphenyl	0.749	0.772	0.742	0.687	0.716	0.705	0.805		0.739	5.51
75)	2,4,6-Tribro	0.068	0.082	0.089	0.094	0.097	0.090	0.087		0.087	11.21
76)	4-Bromopheny	0.188	0.205	0.209	0.217	0.224	0.210	0.216		0.210	5.52
77)	Hexachlorobe	0.205	0.210	0.205	0.214	0.222	0.209	0.217		0.212	2.88
78)	Pentachlorop	0.146	0.112	0.144	0.155	0.161	0.154	0.136		0.144	11.48
79)	Phenanthrene	1.214	1.210	1.167	1.133	1.169	1.153	1.250		1.185	3.43
80)	Anthracene	1.149	1.228	1.207	1.174	1.202	1.192	1.273		1.204	3.31
81)	Carbazole	0.922	0.993	0.977	0.830	0.810	0.904	1.039		0.925	9.16
82)	Di-n-butylph	0.793	1.063	1.144	1.089	1.114	1.128	1.142		1.068	11.66
83)	Fluoranthene	0.989	1.189	1.170	1.113	1.161	1.181	1.211		1.145	6.56
84)	Octadecane	0.384	0.431	0.420	0.399	0.391	0.397	0.447		0.410	5.63
85)	I Chrysene-d12	----------ISTD----------									
86)	Benzidine	0.127	0.189	0.231	0.165	0.153	0.205	0.221		0.184	20.65
87)	Pyrene	1.205	1.323	1.315	1.313	1.314	1.291	1.357		1.303	5.63

Initial Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

```
 88) Terphenyl-d1 0.815 0.908 0.914 0.919 0.929 0.895 0.934        0.902   4.48
 89) Butylbenzylp 0.262 0.425 0.485 0.479 0.479 0.474 0.464        0.438  18.29
             ----- Linear regression -----  Coefficient =  0.9999
               Response Ratio = -0.00607 + 0.48182 *A

 90) Butyl steara 0.156 0.249 0.280 0.251 0.236 0.255 0.280        0.244  17.27
             ----- Linear regression -----  Coefficient =  0.9966
               Response Ratio = 0.00901 + 0.23987 *A

 91) Benzo[a]anth 0.979 1.142 1.155 1.163 1.184 1.156 1.192        1.139   6.39
 92) 3,3'-Dichlor 0.256 0.313 0.363 0.337 0.320 0.363 0.347        0.329  11.37
 93) Chrysene     1.181 1.187 1.162 1.139 1.156 1.128 1.241        1.171   3.20
 94) bis(2-Ethylh 0.337 0.552 0.629 0.624 0.611 0.608 0.610        0.567  18.49
             ----- Linear regression -----  Coefficient =  0.9997
               Response Ratio = -0.00518 + 0.61819 *A


 95) I   Perylene-d12          ----------------ISTD---------------------
 96) Di-n-octylph 0.477 1.060 1.414 1.439 1.419 1.399 1.238        1.206  28.98
             ----- Linear regression -----  Coefficient =  0.9998
               Response Ratio = -0.04348 + 1.44516 *A

 97) Benzo[b]fluo 1.370 1.553 1.746 1.846 1.780 1.723 1.725        1.677   9.67
 98) Benzo[k]fluo 1.675 1.822 1.811 1.684 1.851 1.848 1.856        1.792   4.40
 99) Benzo[a]pyre 1.196 1.482 1.592 1.630 1.689 1.639 1.604        1.547  10.81
100) Indeno[1,2,3 1.014 1.239 1.441 1.630 1.647 1.570 1.428        1.424  16.11
             ----- Linear regression -----  Coefficient =  0.9994
               Response Ratio = -0.07280 + 1.66364 *A

101) Dibenz(a,h)a 0.683 0.923 1.099 1.275 1.286 1.210 1.065        1.077  20.06
             ----- Linear regression -----  Coefficient =  0.9991
               Response Ratio = -0.06856 + 1.30299 *A

102) Dibenz[a,h]a 0.878 1.058 1.255 1.421 1.441 1.366 1.245        1.238  16.60
             ----- Linear regression -----  Coefficient =  0.9993
               Response Ratio = -0.06637 + 1.45402 *A

103) 7,12-Dimethy 0.544 0.664 0.774 0.770 0.796 0.777 0.756        0.726  12.53
104) 3-Methylchol                                                  0.000# -1.00
105) Benzo[g,h,i] 0.826 1.008 1.164 1.358 1.368 1.309 1.162        1.171  17.04
             ----- Linear regression -----  Coefficient =  0.9992
               Response Ratio = -0.06719 + 1.38666 *A

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

          MF2491.M          Mon Dec 20 16:50:35 2004    RPT1
```

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2492-CC2491
Lab FileID: F46961.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF2492D\F46961.D
Acq On : 15 Dec 2004 8:54 am
Sample : CC2491-50
Misc : OP18812,EF2492,
MS Integration Params: LSCINT.P

Vial: 2
Operator: NINAP
Inst : MSF
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00	6.51
2	t	1,4-Dioxane	0.676	0.607	10.2	119	-0.02	2.70
3	t	Pyridine	1.640	1.550	5.5	119	-0.01	3.02
4	t	N-Nitrosodimethylamine	0.538	0.502	6.7	120	-0.10	2.90
5	S	2-Fluorophenol	1.395	1.344	3.7	123	0.00	4.48
6	t	Indene	2.466	2.429	1.5	123	0.00	7.04
7	t	Cumene	3.153	3.080	2.3	121	0.00	5.22
8	S	Phenol-d5	1.679	1.578	6.0	121	0.00	5.94
9	t	Phenol	1.833	1.732	5.5	120	0.00	5.96
10	t	Aniline	2.110	1.950	7.6	117	0.00	5.99
11	t	bis(2-Chloroethyl)ether	1.312	1.268	3.4	122	0.00	6.09
12	t	Benzaldehyde	0.351	0.430	-22.5#	132	0.00	5.74
13	t	2-Chlorophenol	1.399	1.358	2.9	122	0.00	6.18
14	t	Decane	1.280	1.185	7.4	118	0.00	6.27
15	t	1,3-Dichlorobenzene	1.554	1.530	1.5	123	0.00	6.44
16	t	1,4-Dichlorobenzene	1.588	1.540	3.0	122	0.00	6.54
17	t	Benzyl alcohol	0.903	0.890	1.4	121	0.00	6.82
18	t	1,2-Dichlorobenzene	1.470	1.435	2.4	122	0.00	6.89
19	t	Acetophenone	1.880	1.825	2.9	122	0.00	7.35
20	t	2-Methylphenol	1.250	1.196	4.3	121	0.00	7.09
21	t	2,2'-oxybis(1-Chloropropa	0.450	0.443	1.6	124	0.00	7.13
22	t	3&4-Methylphenol	1.308	1.255	4.1	121	0.00	7.40
23	t	n-Nitroso-di-n-propylamin	0.780	0.765	1.9	122	0.00	7.42
24	t	Hexachloroethane	0.512	0.512	0.0	122	0.00	7.50
25	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	9.14
26	S	Nitrobenzene-d5	0.379	0.369	2.6	118	0.00	7.65
27	t	Nitrobenzene	0.175	0.174	0.6	120	0.00	7.69
28	t	Quinoline	0.669	0.657	1.8	122	0.01	9.97
29	t	Isophorone	0.622	0.615	1.1	123	0.00	8.19
30	t	2-Nitrophenol	0.171	0.174	-1.8	118	0.00	8.37
31	t	2,4-Dimethylphenol	0.332	0.331	0.3	122	0.00	8.51
32	t	Benzoic acid	0.236	0.222	5.9	112	0.02	8.87
33	t	bis(2-Chloroethoxy)methan	0.386	0.374	3.1	122	0.00	8.72
34	t	2,4-Dichlorophenol	0.267	0.272	-1.9	124	0.00	8.88
35		1,3,5-Trichlorobenzene	0.337	0.335	0.6	124	0.00	8.38
36	t	1,2,4-Trichlorobenzene	0.324	0.324	0.0	125	0.00	9.06
37		1,2,3-Trichlorobenzene	0.310	0.311	-0.3	125	0.00	9.60
38	t	alpha-Terpineol	0.265	0.254	4.2	122	0.00	9.23
39	t	Naphthalene	1.061	1.020	3.9	122	0.00	9.18
40	t	4-Chloroaniline	0.423	0.410	3.1	120	0.00	9.39
41	t	2,3-Dichloroaniline	0.323	0.319	1.2	122	0.00	9.51

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2492-CC2491
Lab FileID: F46961.D

42	t	Caprolactam	0.124	0.124	0.0	119	0.02	10.14
43	t	Hexachlorobutadiene	0.185	0.188	-1.6	126	0.00	9.63
44	t	4-Chloro-3-methylphenol	0.278	0.282	-1.4	122	0.00	10.57
45	t	2-Methylnaphthalene	0.683	0.673	1.5	122	0.00	10.76
46	t	1-Methylnaphthalene	0.662	0.653	1.4	122	0.00	11.01
47	t	Dimethylnaphthalene	0.580	0.577	0.5	123	0.00	12.25
48	I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00	13.24
			True	Calc.	% Drift			
49	t	Hexachlorocyclopentadiene	100.000	93.661	6.3	120	0.00	11.32
			AvgRF	CCRF	% Dev			
50	t	2,4,6-Trichlorophenol	0.384	0.399	-3.9	124	0.00	11.52
51	t	2,4,5-Trichlorophenol	0.424	0.432	-1.9	122	0.00	11.60
52	S	2-Fluorobiphenyl	1.529	1.501	1.8	123	0.00	11.71
53	t	2-Chloronaphthalene	1.212	1.180	2.6	122	0.00	11.88
54	t	Biphenyl	1.662	1.602	3.6	121	0.00	11.90
55	t	2-Nitroaniline	0.307	0.290	5.5	112	0.00	12.24
56	t	Dimethylphthalate	1.255	1.271	-1.3	124	0.00	12.81
57	t	Acenaphthylene	1.935	1.943	-0.4	122	0.00	12.86
			True	Calc.	% Drift			
58	t	2,6-Dinitrotoluene	50.000	45.963	8.1	114	0.00	12.93
			AvgRF	CCRF	% Dev			
59	t	3-Nitroaniline	0.306	0.304	0.7	115	0.00	13.24
60	t	Acenaphthene	1.229	1.196	2.7	121	0.00	13.32
			True	Calc.	% Drift			
61	t	2,4-Dinitrophenol	100.000	83.610	16.4	107	0.00	13.48
			AvgRF	CCRF	% Dev			
62	t	4-Nitrophenol	0.164	0.166	-1.2	117	0.00	13.72
63	t	Dibenzofuran	1.683	1.638	2.7	122	0.00	13.70
			True	Calc.	% Drift			
64	t	2,4-Dinitrotoluene	50.000	47.893	4.2	117	0.00	13.84
			AvgRF	CCRF	% Dev			
65		2,3,4,6-Tetrachlorophenol	0.308	0.335	-8.8	124	0.00	14.12
66	t	Diethylphthalate	1.225	1.239	-1.1	123	0.00	14.52
67	t	Fluorene	1.319	1.312	0.5	123	0.00	14.51
68	t	4-Chlorophenyl-phenylethe	0.676	0.678	-0.3	125	0.00	14.57
69	t	4-Nitroaniline	0.285	0.274	3.9	111	0.01	14.71
70	I	Phenanthrene-d10	1.000	1.000	0.0	123	0.00	16.72
			True	Calc.	% Drift			
71	t	4,6-Dinitro-2-methylpheno	50.000	41.807	16.4	109	0.01	14.81
			AvgRF	CCRF	% Dev			
72	t	Atrazine	0.117	0.110	6.0	115	0.00	16.30
73	t	n-Nitrosodiphenylamine	0.563	0.556	1.2	122	0.00	14.89
74	t	1,2-Diphenylhydrazine	0.739	0.689	6.8	120	0.00	14.95
75	S	2,4,6-Tribromophenol	0.087	0.091	-4.6	124	0.00	15.14
76	t	4-Bromophenyl-phenylether	0.210	0.215	-2.4	126	0.00	15.72
77	t	Hexachlorobenzene	0.212	0.214	-0.9	126	0.00	16.02
78	t	Pentachlorophenol	0.144	0.154	-6.9	123	0.00	16.47
79	t	Phenanthrene	1.185	1.158	2.3	123	0.00	16.78

Continuing Calibration Summary

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Sample: EF2492-CC2491
Lab FileID: F46961.D

80	t	Anthracene	1.204	1.190	1.2	123	0.00	16.88
81	t	Carbazole	0.925	0.810	12.4	110	0.00	17.32
82	t	Di-n-butylphthalate	1.068	1.140	-6.7	124	0.00	18.41
83	t	Fluoranthene	1.145	1.173	-2.4	122	0.00	19.48
84	t	Octadecane	0.410	0.388	5.4	120	0.00	16.71
85	I	Chrysene-d12	1.000	1.000	0.0	118	0.00	22.22
86	t	Benzidine	0.184	0.155	15.8	89	0.00	19.82
87	t	Pyrene	1.303	1.315	-0.9	120	0.00	19.92
88	S	Terphenyl-d14	0.902	0.932	-3.3	123	0.00	20.33
			True	Calc.	% Drift			
89	t	Butylbenzylphthalate	50.000	50.279	-0.6	119	0.00	21.37
90		Butyl stearate	50.000	51.902	-3.8	118	0.00	21.48
			AvgRF	CCRF	% Dev			
91	t	Benzo[a]anthracene	1.139	1.173	-3.0	119	0.00	22.19
92	t	3,3'-Dichlorobenzidine	0.329	0.337	-2.4	109	0.00	22.20
93	t	Chrysene	1.171	1.129	3.6	118	0.00	22.26
			True	Calc.	% Drift			
94	t	bis(2-Ethylhexyl)phthalat	50.000	50.320	-0.6	119	0.00	22.47
			AvgRF	CCRF	% Dev			
95	I	Perylene-d12	1.000	1.000	0.0	115	0.00	24.56
			True	Calc.	% Drift			
96	t	Di-n-octylphthalate	50.000	50.942	-1.9	118	0.00	23.45
			AvgRF	CCRF	% Dev			
97	t	Benzo[b]fluoranthene	1.677	1.698	-1.3	113	0.00	23.95
98	t	Benzo[k]fluoranthene	1.792	1.884	-5.1	117	0.00	23.99
99	t	Benzo[a]pyrene	1.547	1.600	-3.4	112	0.00	24.46
			True	Calc.	% Drift			
100	t	Indeno[1,2,3-cd]pyrene	50.000	48.121	3.8	113	0.00	26.63
101	t	Dibenz(a,h)acridine	50.000	46.928	6.1	111	0.00	26.15
102	t	Dibenz[a,h]anthracene	50.000	47.397	5.2	111	0.00	26.67
			AvgRF	CCRF	% Dev			
103	t	7,12-Dimethylbenz(a)anthr	0.726	0.779	-7.3	115	0.00	23.99
104	t	3-Methylcholanthrene		----------NA----------				
			True	Calc.	% Drift			
105	t	Benzo[g,h,i]perylene	50.000	48.237	3.5	112	0.00	27.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F46940.D MF2491.M Mon Dec 20 11:13:59 2004 RPT1

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2503-CC2491
Lab FileID: F47279.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF2503\F47279.D Vial: 2
Acq On : 31 Dec 2004 3:41 am Operator: NINAP
Sample : CC2491-50 Inst : MSF
Misc : OP19139,EF2503,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	146	-0.17	6.34
2	t	1,4-Dioxane	0.676	0.574	15.1	134	-0.25	2.47
3	t	Pyridine	1.640	1.430	12.8	131	-0.22	2.80
4	t	N-Nitrosodimethylamine	0.538	0.522	3.0	149	-0.21	2.79
5	S	2-Fluorophenol	1.395	1.279	8.3	139	-0.12	4.35
6	t	Indene	2.466	2.387	3.2	144	-0.17	6.87
7	t	Cumene	3.153	3.065	2.8	143	-0.17	5.06
8	S	Phenol-d5	1.679	1.514	9.8	138	-0.13	5.80
9	t	Phenol	1.833	1.742	5.0	145	-0.13	5.83
10	t	Aniline	2.110	1.770	16.1	127	-0.15	5.84
11	t	bis(2-Chloroethyl)ether	1.312	1.319	-0.5	151	-0.16	5.93
12	t	Benzaldehyde	0.351	0.401	-14.2	146	-0.15	5.59
13	t	2-Chlorophenol	1.399	1.339	4.3	144	-0.15	6.03
14	t	Decane	1.280	1.268	0.9	151	-0.17	6.11
15	t	1,3-Dichlorobenzene	1.554	1.472	5.3	141	-0.17	6.27
16	t	1,4-Dichlorobenzene	1.588	1.524	4.0	144	-0.17	6.37
17	t	Benzyl alcohol	0.903	0.847	6.2	138	-0.16	6.66
18	t	1,2-Dichlorobenzene	1.470	1.428	2.9	145	-0.17	6.72
19	t	Acetophenone	1.880	1.822	3.1	145	-0.17	7.18
20	t	2-Methylphenol	1.250	1.161	7.1	141	-0.15	6.94
21	t	2,2'-oxybis(1-Chloropropa	0.450	0.436	3.1	146	-0.17	6.97
22	t	3&4-Methylphenol	1.308	1.229	6.0	141	-0.15	7.24
23	t	n-Nitroso-di-n-propylamin	0.780	0.791	-1.4	150	-0.18	7.25
24	t	Hexachloroethane	0.512	0.534	-4.3	152	-0.18	7.32
25	I	Naphthalene-d8	1.000	1.000	0.0	149	-0.18	8.96
26	S	Nitrobenzene-d5	0.379	0.385	-1.6	150	-0.17	7.48
27	t	Nitrobenzene	0.175	0.171	2.3	144	-0.17	7.52
28	t	Quinoline	0.669	0.668	0.1	150	-0.16	9.79
29	t	Isophorone	0.622	0.632	-1.6	154	-0.17	8.02
30	t	2-Nitrophenol	0.171	0.187	-9.4	154	-0.17	8.20
31	t	2,4-Dimethylphenol	0.332	0.340	-2.4	152	-0.16	8.35
32	t	Benzoic acid	0.236	0.231	2.1	141	-0.11	8.74
33	t	bis(2-Chloroethoxy)methan	0.386	0.374	3.1	148	-0.17	8.54
34	t	2,4-Dichlorophenol	0.267	0.275	-3.0	152	-0.16	8.72
35		1,3,5-Trichlorobenzene	0.337	0.337	0.0	152	-0.18	8.21
36	t	1,2,4-Trichlorobenzene	0.324	0.326	-0.6	153	-0.17	8.89
37		1,2,3-Trichlorobenzene	0.310	0.315	-1.6	154	-0.18	9.42
38	t	alpha-Terpineol	0.265	0.269	-1.5	158	-0.17	9.06
39	t	Naphthalene	1.061	1.008	5.0	146	-0.18	9.00
40	t	4-Chloroaniline	0.423	0.397	6.1	141	-0.17	9.22
41	t	2,3-Dichloroaniline	0.323	0.342	-5.9	158	-0.18	11.33

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2503-CC2491
Lab FileID: F47279.D

42	t	Caprolactam	0.124	0.133	-7.3	154	-0.13	9.98
43	t	Hexachlorobutadiene	0.185	0.197	-6.5	161	-0.18	9.45
44	t	4-Chloro-3-methylphenol	0.278	0.294	-5.8	155	-0.14	10.42
45	t	2-Methylnaphthalene	0.683	0.687	-0.6	152	-0.18	10.58
46	t	1-Methylnaphthalene	0.662	0.674	-1.8	153	-0.18	10.83
47	t	Dimethylnaphthalene	0.580	0.606	-4.5	156	-0.18	12.06
48	I	Acenaphthene-d10	1.000	1.000	0.0	160	-0.18	13.05
			True	Calc.	% Drift			
49	t	Hexachlorocyclopentadiene	100.000	89.908	10.1	150	-0.19	11.13
			AvgRF	CCRF	% Dev			
50	t	2,4,6-Trichlorophenol	0.384	0.393	-2.3	160	-0.17	11.35
51	t	2,4,5-Trichlorophenol	0.424	0.435	-2.6	160	-0.15	11.45
52	S	2-Fluorobiphenyl	1.529	1.464	4.3	157	-0.18	11.53
53	t	2-Chloronaphthalene	1.212	1.155	4.7	156	-0.18	11.70
54	t	Biphenyl	1.662	1.567	5.7	155	-0.18	11.71
55	t	2-Nitroaniline	0.307	0.332	-8.1	168	-0.17	12.07
56	t	Dimethylphthalate	1.255	1.277	-1.8	163	-0.18	12.63
57	t	Acenaphthylene	1.935	1.892	2.2	155	-0.19	12.67
			True	Calc.	% Drift			
58	t	2,6-Dinitrotoluene	50.000	52.751	-5.5	171	-0.17	12.75
			AvgRF	CCRF	% Dev			
59	t	3-Nitroaniline	0.306	0.299	2.3	148	-0.16	13.07
60	t	Acenaphthene	1.229	1.172	4.6	156	-0.19	13.12
			True	Calc.	% Drift			
61	t	2,4-Dinitrophenol	100.000	109.621	-9.6	190	-0.15	13.32
			AvgRF	CCRF	% Dev			
62	t	4-Nitrophenol	0.164	0.164	0.0	151	-0.13	13.59
63	t	Dibenzofuran	1.683	1.621	3.7	158	-0.18	13.51
			True	Calc.	% Drift			
64	t	2,4-Dinitrotoluene	50.000	53.311	-6.6	171	-0.16	13.68
			AvgRF	CCRF	% Dev			
65		2,3,4,6-Tetrachlorophenol	0.308	0.344	-11.7	168	-0.17	13.95
66	t	Diethylphthalate	1.225	1.270	-3.7	165	-0.19	14.34
67	t	Fluorene	1.319	1.306	1.0	160	-0.19	14.32
68	t	4-Chlorophenyl-phenylethe	0.676	0.679	-0.4	164	-0.18	14.39
69	t	4-Nitroaniline	0.285	0.257	9.8	136	-0.17	14.54
70	I	Phenanthrene-d10	1.000	1.000	0.0	165	-0.18	16.53
			True	Calc.	% Drift			
71	t	4,6-Dinitro-2-methylpheno	50.000	54.938	-9.9	199	-0.15	14.65
			AvgRF	CCRF	% Dev			
72	t	Atrazine	0.117	0.113	3.4	159	-0.17	16.12
73	t	n-Nitrosodiphenylamine	0.563	0.526	6.6	156	-0.18	14.71
74	t	1,2-Diphenylhydrazine	0.739	0.667	9.7	157	-0.18	14.76
75	S	2,4,6-Tribromophenol	0.087	0.095	-9.2	174	-0.18	14.95
76	t	4-Bromophenyl-phenylether	0.210	0.217	-3.3	171	-0.19	15.53
77	t	Hexachlorobenzene	0.212	0.220	-3.8	174	-0.18	15.83
78	t	Pentachlorophenol	0.144	0.156	-8.3	166	-0.17	16.30
79	t	Phenanthrene	1.185	1.109	6.4	159	-0.18	16.58

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2503-CC2491
Lab FileID: F47279.D

80	t	Anthracene	1.204	1.149	4.6	159	-0.19	16.69
81	t	Carbazole	0.925	0.778	15.9	142	-0.18	17.13
82	t	Di-n-butylphthalate	1.068	1.180	-10.5	173	-0.18	18.23
83	t	Fluoranthene	1.145	1.169	-2.1	164	-0.17	19.31
84	t	Octadecane	0.410	0.394	3.9	164	-0.18	16.53
85	I	Chrysene-d12	1.000	1.000	0.0	170	-0.15	22.07
86	t	Benzidine	0.184	0.123	33.2#	102	-0.16	19.66
87	t	Pyrene	1.303	1.243	4.6	164	-0.16	19.75
88	S	Terphenyl-d14	0.902	0.908	-0.7	172	-0.16	20.17
			True	Calc.	% Drift			
89	t	Butylbenzylphthalate	50.000	51.385	-2.8	176	-0.16	21.21
90		Butyl stearate	50.000	50.806	-1.6	167	-0.15	21.33
			AvgRF	CCRF	% Dev			
91	t	Benzo[a]anthracene	1.139	1.134	0.4	167	-0.15	22.03
92	t	3,3'-Dichlorobenzidine	0.329	0.322	2.1	151	-0.15	22.06
93	t	Chrysene	1.171	1.129	3.6	170	-0.15	22.11
			True	Calc.	% Drift			
94	t	bis(2-Ethylhexyl)phthalat	50.000	54.940	-9.9	188	-0.15	22.32
			AvgRF	CCRF	% Dev			
95	I	Perylene-d12	1.000	1.000	0.0	168	-0.17	24.39
			True	Calc.	% Drift			
96	t	Di-n-octylphthalate	50.000	57.812	-15.6	197	-0.16	23.30
			AvgRF	CCRF	% Dev			
97	t	Benzo[b]fluoranthene	1.677	1.897	-13.1	185	-0.15	23.80
98	t	Benzo[k]fluoranthene	1.792	1.655	7.6	151	-0.15	23.84
99	t	Benzo[a]pyrene	1.547	1.602	-3.6	165	-0.17	24.30
			True	Calc.	% Drift			
100	t	Indeno[1,2,3-cd]pyrene	50.000	47.158	5.7	162	-0.24	26.39
101	t	Dibenz(a,h)acridine	50.000	48.275	3.5	167	-0.22	25.93
102	t	Dibenz[a,h]anthracene	50.000	46.678	6.6	161	-0.25	26.43
			AvgRF	CCRF	% Dev			
103	t	7,12-Dimethylbenz(a)anthr	0.726	0.785	-8.1	170	-0.16	23.83
104	t	3-Methylcholanthrene		----------NA----------				
			True	Calc.	% Drift			
105	t	Benzo[g,h,i]perylene	50.000	46.405	7.2	159	-0.27	26.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F46940.D MF2491.M Mon Jan 03 09:31:52 2005 RPT1

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2504-CC2491
Lab FileID: F47325.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF2504\F47325.D Vial: 3
Acq On : 4 Jan 2005 9:23 am Operator: NINAP
Sample : CC2491-25 Inst : MSF
Misc : OP19067,EF2504,.1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	-0.18	6.32
2	t	1,4-Dioxane	0.676	0.618	8.6	106	-0.12	2.59
3	t	Pyridine	1.640	1.539	6.2	103	-0.13	2.89
4	t	N-Nitrosodimethylamine	0.538	0.599	-11.3	126	-0.14	2.86
5	S	2-Fluorophenol	1.395	1.366	2.1	109	-0.13	4.35
6	t	Indene	2.466	2.540	-3.0	112	-0.19	6.86
7	t	Cumene	3.153	3.216	-2.0	113	-0.18	5.04
8	S	Phenol-d5	1.679	1.801	-7.3	117	-0.13	5.81
9	t	Phenol	1.833	1.855	-1.2	108	-0.13	5.83
10	t	Aniline	2.110	1.864	11.7	94	-0.17	5.81
11	t	bis(2-Chloroethyl)ether	1.312	1.436	-9.5	119	-0.18	5.92
12	t	Benzaldehyde	0.351	0.704	-100.6#	133	-0.17	5.57
13	t	2-Chlorophenol	1.399	1.424	-1.8	110	-0.17	6.02
14	t	Decane	1.280	1.357	-6.0	116	-0.18	6.10
15	t	1,3-Dichlorobenzene	1.554	1.553	0.1	110	-0.18	6.26
16	t	1,4-Dichlorobenzene	1.588	1.620	-2.0	114	-0.18	6.35
17	t	Benzyl alcohol	0.903	0.828	8.3	98	-0.17	6.65
18	t	1,2-Dichlorobenzene	1.470	1.532	-4.2	115	-0.19	6.71
19	t	Acetophenone	1.880	1.967	-4.6	113	-0.19	7.16
20	t	2-Methylphenol	1.250	1.201	3.9	103	-0.15	6.94
21	t	2,2'-oxybis(1-Chloropropa	0.450	0.460	-2.2	112	-0.19	6.95
22	t	3&4-Methylphenol	1.308	1.294	1.1	104	-0.14	7.25
23	t	n-Nitroso-di-n-propylamin	0.780	0.836	-7.2	114	-0.20	7.23
24	t	Hexachloroethane	0.512	0.552	-7.8	118	-0.20	7.31
25	I	Naphthalene-d8	1.000	1.000	0.0	112	-0.20	8.94
26	S	Nitrobenzene-d5	0.379	0.401	-5.8	115	-0.18	7.47
27	t	Nitrobenzene	0.175	0.180	-2.9	111	-0.19	7.50
28	t	Quinoline	0.669	0.687	-2.7	112	-0.20	9.76
29	t	Isophorone	0.622	0.687	-10.5	120	-0.19	7.99
30	t	2-Nitrophenol	0.171	0.190	-11.1	117	-0.18	8.18
31	t	2,4-Dimethylphenol	0.332	0.345	-3.9	111	-0.16	8.35
32	t	Benzoic acid	0.236	0.196	16.9	92	-0.20	8.65
33	t	bis(2-Chloroethoxy)methan	0.386	0.393	-1.8	112	-0.19	8.52
34	t	2,4-Dichlorophenol	0.267	0.277	-3.7	112	-0.15	8.73
35		1,3,5-Trichlorobenzene	0.337	0.351	-4.2	118	-0.20	8.19
36	t	1,2,4-Trichlorobenzene	0.324	0.340	-4.9	119	-0.19	8.87
37		1,2,3-Trichlorobenzene	0.310	0.329	-6.1	120	-0.19	9.40
38	t	alpha-Terpineol	0.265	0.291	-9.8	118	-0.19	9.04
39	t	Naphthalene	1.061	1.081	-1.9	114	-0.20	8.98
40	t	4-Chloroaniline	0.423	0.390	7.8	99	-0.18	9.21
41	t	2,3-Dichloroaniline	0.323	0.347	-7.4	119	-0.19	11.32

Continuing Calibration Summary

Job Number: N85893 **Sample:** EF2504-CC2491
Account: AGMPAL Arcadis Geraghty & Miller **Lab FileID:** F47325.D
Project: PSEG-Salem, Artificial Island, Salem, NJ

42	t	Caprolactam	0.124	0.144	-16.1	118	-0.19	9.92
43	t	Hexachlorobutadiene	0.185	0.203	-9.7	124	-0.20	9.43
44	t	4-Chloro-3-methylphenol	0.278	0.299	-7.6	114	-0.13	10.43
45	t	2-Methylnaphthalene	0.683	0.721	-5.6	115	-0.20	10.56
46	t	1-Methylnaphthalene	0.662	0.721	-8.9	120	-0.20	10.80
47	t	Dimethylnaphthalene	0.580	0.637	-9.8	119	-0.20	12.04
48	I	Acenaphthene-d10	1.000	1.000	0.0	121	-0.20	13.03
			True	Calc.	% Drift			
49	t	Hexachlorocyclopentadiene	50.000	44.165	11.7	114	-0.20	11.11
			AvgRF	CCRF	% Dev			
50	t	2,4,6-Trichlorophenol	0.384	0.377	1.8	115	-0.18	11.34
51	t	2,4,5-Trichlorophenol	0.424	0.431	-1.7	119	-0.14	11.46
52	S	2-Fluorobiphenyl	1.529	1.514	1.0	121	-0.20	11.50
53	t	2-Chloronaphthalene	1.212	1.183	2.4	118	-0.20	11.68
54	t	Biphenyl	1.662	1.597	3.9	116	-0.20	11.69
55	t	2-Nitroaniline	0.307	0.352	-14.7	125	-0.18	12.05
56	t	Dimethylphthalate	1.255	1.336	-6.5	125	-0.20	12.60
57	t	Acenaphthylene	1.935	1.951	-0.8	118	-0.21	12.65
			True	Calc.	% Drift			
58	t	2,6-Dinitrotoluene	25.000	27.095	-8.4	129	-0.20	12.73
			AvgRF	CCRF	% Dev			
59	t	3-Nitroaniline	0.306	0.311	-1.6	112	-0.18	13.05
60	t	Acenaphthene	1.229	1.213	1.3	119	-0.21	13.10
			True	Calc.	% Drift			
61	t	2,4-Dinitrophenol	50.000	47.487	5.0	119	-0.18	13.29
			AvgRF	CCRF	% Dev			
62	t	4-Nitrophenol	0.164	0.145	11.6	103	-0.04	13.68
63	t	Dibenzofuran	1.683	1.689	-0.4	122	-0.21	13.49
			True	Calc.	% Drift			
64	t	2,4-Dinitrotoluene	25.000	27.331	-9.3	127	-0.19	13.65
			AvgRF	CCRF	% Dev			
65		2,3,4,6-Tetrachlorophenol	0.308	0.346	-12.3	126	-0.18	13.94
66	t	Diethylphthalate	1.225	1.338	-9.2	127	-0.22	14.30
67	t	Fluorene	1.319	1.372	-4.0	124	-0.21	14.30
68	t	4-Chlorophenyl-phenylethe	0.676	0.699	-3.4	124	-0.20	14.37
69	t	4-Nitroaniline	0.285	0.300	-5.3	111	-0.18	14.52
70	I	Phenanthrene-d10	1.000	1.000	0.0	125	-0.21	16.50
			True	Calc.	% Drift			
71	t	4,6-Dinitro-2-methylpheno	25.000	26.097	-4.4	141	-0.19	14.61
			AvgRF	CCRF	% Dev			
72	t	Atrazine	0.117	0.128	-9.4	120	-0.20	16.09
73	t	n-Nitrosodiphenylamine	0.563	0.548	2.7	120	-0.21	14.68
74	t	1,2-Diphenylhydrazine	0.739	0.725	1.9	122	-0.21	14.74
75	S	2,4,6-Tribromophenol	0.087	0.095	-9.2	132	-0.20	14.93
76	t	4-Bromophenyl-phenylether	0.210	0.216	-2.9	129	-0.21	15.51
77	t	Hexachlorobenzene	0.212	0.220	-3.8	134	-0.21	15.80
78	t	Pentachlorophenol	0.144	0.146	-1.4	126	-0.19	16.27
79	t	Phenanthrene	1.185	1.129	4.7	121	-0.21	16.36

Continuing Calibration Summary

Job Number: N85893
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2504-CC2491
Lab FileID: F47325.D

80	t	Anthracene	1.204	1.193	0.9	123	-0.21	16.66
81	t	Carbazole	0.925	0.898	2.9	115	-0.19	17.12
82	t	Di-n-butylphthalate	1.068	1.182	-10.7	129	-0.20	18.21
83	t	Fluoranthene	1.145	1.177	-2.8	126	-0.19	19.29
84	t	Octadecane	0.410	0.427	-4.1	127	-0.21	16.50
85	I	Chrysene-d12	1.000	1.000	0.0	131	-0.17	22.04
86	t	Benzidine	0.184	0.136	26.1#	77	-0.15	19.67
87	t	Pyrene	1.303	1.246	4.4	124	-0.19	19.73
88	S	Terphenyl-d14	0.902	0.904	-0.2	129	-0.18	20.15
			True	Calc.	% Drift			
89	t	Butylbenzylphthalate	25.000	26.191	-4.8	134	-0.18	21.20
90		Butyl stearate	25.000	26.378	-5.5	125	-0.17	21.31
			AvgRF	CCRF	% Dev			
91	t	Benzo[a]anthracene	1.139	1.129	0.9	128	-0.17	22.01
92	t	3,3'-Dichlorobenzidine	0.329	0.350	-6.4	126	-0.16	22.04
93	t	Chrysene	1.171	1.164	0.6	131	-0.17	22.09
			True	Calc.	% Drift			
94	t	bis(2-Ethylhexyl)phthalat	25.000	27.877	-11.5	142	-0.17	22.30
			AvgRF	CCRF	% Dev			
95	I	Perylene-d12	1.000	1.000	0.0	128	-0.19	24.37
			True	Calc.	% Drift			
96	t	Di-n-octylphthalate	25.000	29.830	-19.3	149	-0.17	23.28
			AvgRF	CCRF	% Dev			
97	t	Benzo[b]fluoranthene	1.677	1.820	-8.5	133	-0.18	23.78
98	t	Benzo[k]fluoranthene	1.792	1.770	1.2	125	-0.18	23.82
99	t	Benzo[a]pyrene	1.547	1.603	-3.6	129	-0.19	24.27
			True	Calc.	% Drift			
100	t	Indeno[1,2,3-cd]pyrene	25.000	23.051	7.8	126	-0.28	26.35
101	t	Dibenz(a,h)acridine	25.000	24.190	3.2	134	-0.26	25.89
102	t	Dibenz[a,h]anthracene	25.000	23.074	7.7	126	-0.30	26.38
			AvgRF	CCRF	% Dev			
103	t	7,12-Dimethylbenz(a)anthr	0.726	0.759	-4.5	125	-0.18	23.80
104	t	3-Methylcholanthrene		----------NA----------				
			True	Calc.	% Drift			
105	t	Benzo[g,h,i]perylene	25.000	22.277	10.9	124	-0.32	26.91

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

F46943.D MF2491.M Tue Jan 04 09:56:23 2005 RPT1

Data File : C:\MSDCHEM\1\DATA\EF2503\F47282.D Vial: 27
Acq On : 31 Dec 2004 6:05 am Operator: NINAP
Sample : N85893-1 Inst : MSF
Misc : OP19011,EF2503,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 06:33:44 2004 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	393345	40.00	ppb	-0.17
25) Naphthalene-d8	8.96	136	1544503	40.00	ppb	-0.18
48) Acenaphthene-d10	13.04	164	829676	40.00	ppb	-0.19
70) Phenanthrene-d10	16.52	188	1437523	40.00	ppb	-0.19
85) Chrysene-d12	22.06	240	1405309	40.00	ppb	-0.16
95) Perylene-d12	24.38	264	908747	40.00	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	276735m	20.17	ppb	-0.14
Spiked Amount 50.000			Recovery =	40.34%		
8) Phenol-d5	5.79	99	232729	14.09	ppb	-0.15
Spiked Amount 50.000			Recovery =	28.18%		
26) Nitrobenzene-d5	7.47	82	513061	35.06	ppb	-0.18
Spiked Amount 50.000			Recovery =	70.12%		
52) 2-Fluorobiphenyl	11.52	172	1038490	32.75	ppb	-0.19
Spiked Amount 50.000			Recovery =	65.50%		
75) 2,4,6-Tribromophenol	14.94	330	134730	43.17	ppb	-0.19
Spiked Amount 50.000			Recovery =	86.34%		
97) Terphenyl-d14	20.17	244	1327919	41.90	ppb	-0.16
Spiked Amount 50.000			Recovery =	83.80%		

Target Compounds Qvalue

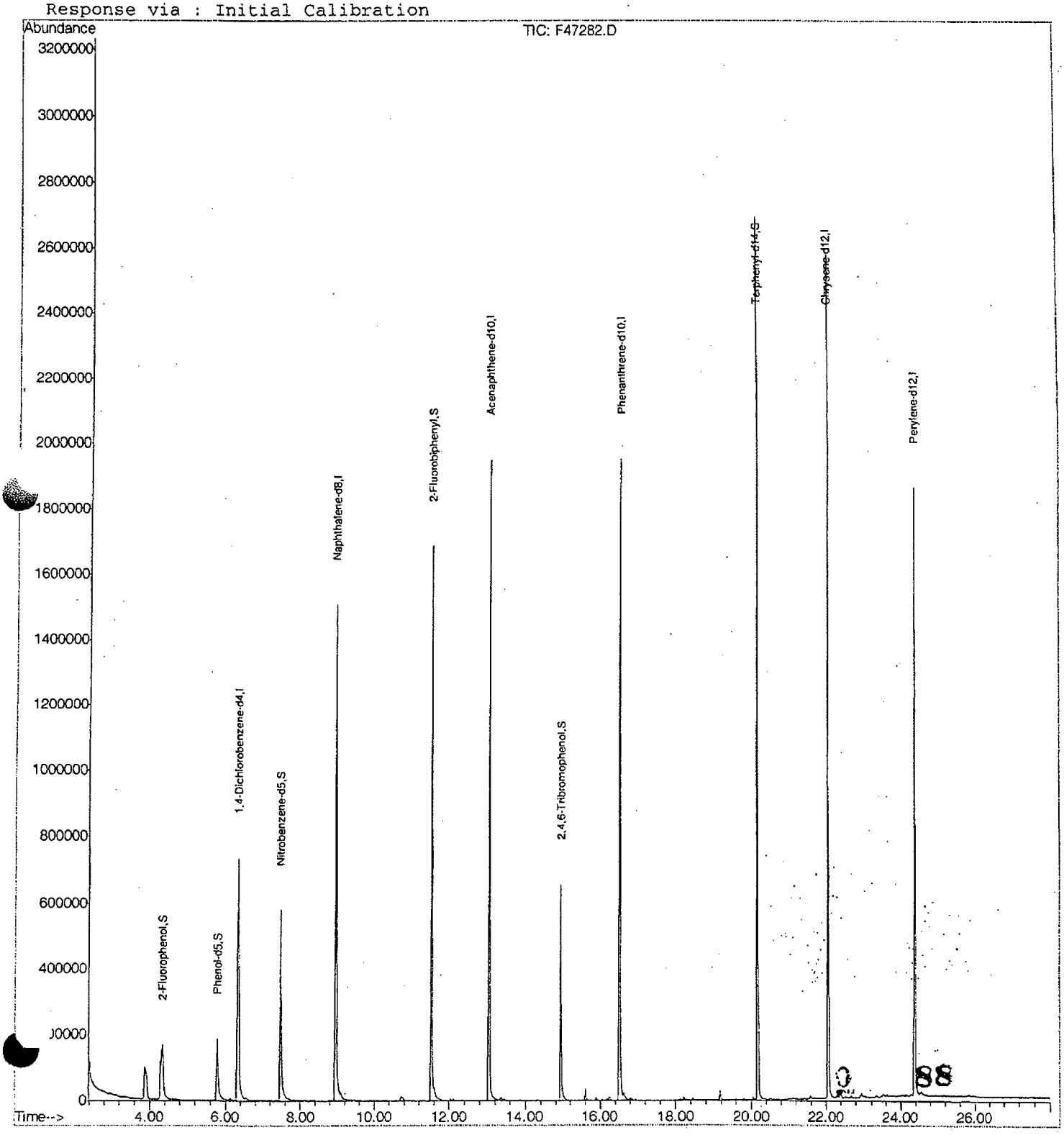
6/15/05

87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2503\F47282.D Vial: 27
Acq On : 31 Dec 2004 6:05 am Operator: NINAP
Sample : N85893-1 Inst : MSF
Misc : OP19011,EF2503,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 3 10:21 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2503\F47283.D Vial: 28
Acq On : 31 Dec 2004 6:41 am Operator: NINAP
Sample : N85893-2 Inst : MSF
Misc : OP19011,EF2503,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 31 07:09:45 2004 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.33	152	401821	40.00	ppb	-0.17
25) Naphthalene-d8	8.96	136	1595622	40.00	ppb	-0.18
48) Acenaphthene-d10	13.04	164	839326	40.00	ppb	-0.19
70) Phenanthrene-d10	16.52	188	1453838	40.00	ppb	-0.19
85) Chrysene-d12	22.06	240	1429040	40.00	ppb	-0.16
95) Perylene-d12	24.38	264	905723	40.00	ppb	-0.18
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	256317	18.29	ppb	-0.14
Spiked Amount 50.000			Recovery =	36.58%		
8) Phenol-d5	5.79	99	285398	16.92	ppb	-0.15
Spiked Amount 50.000			Recovery =	33.84%		
26) Nitrobenzene-d5	7.47	82	641688	42.45	ppb	-0.18
Spiked Amount 50.000			Recovery =	84.90%		
52) 2-Fluorobiphenyl	11.52	172	1267637	39.52	ppb	-0.19
Spiked Amount 50.000			Recovery =	79.04%		
75) 2,4,6-Tribromophenol	14.94	330	140646	44.56	ppb	-0.19
Spiked Amount 50.000			Recovery =	89.12%		
3) Terphenyl-d14	20.17	244	1449300	44.98	ppb	-0.16
Spiked Amount 50.000			Recovery =	89.96%		

Target Compounds Qvalue

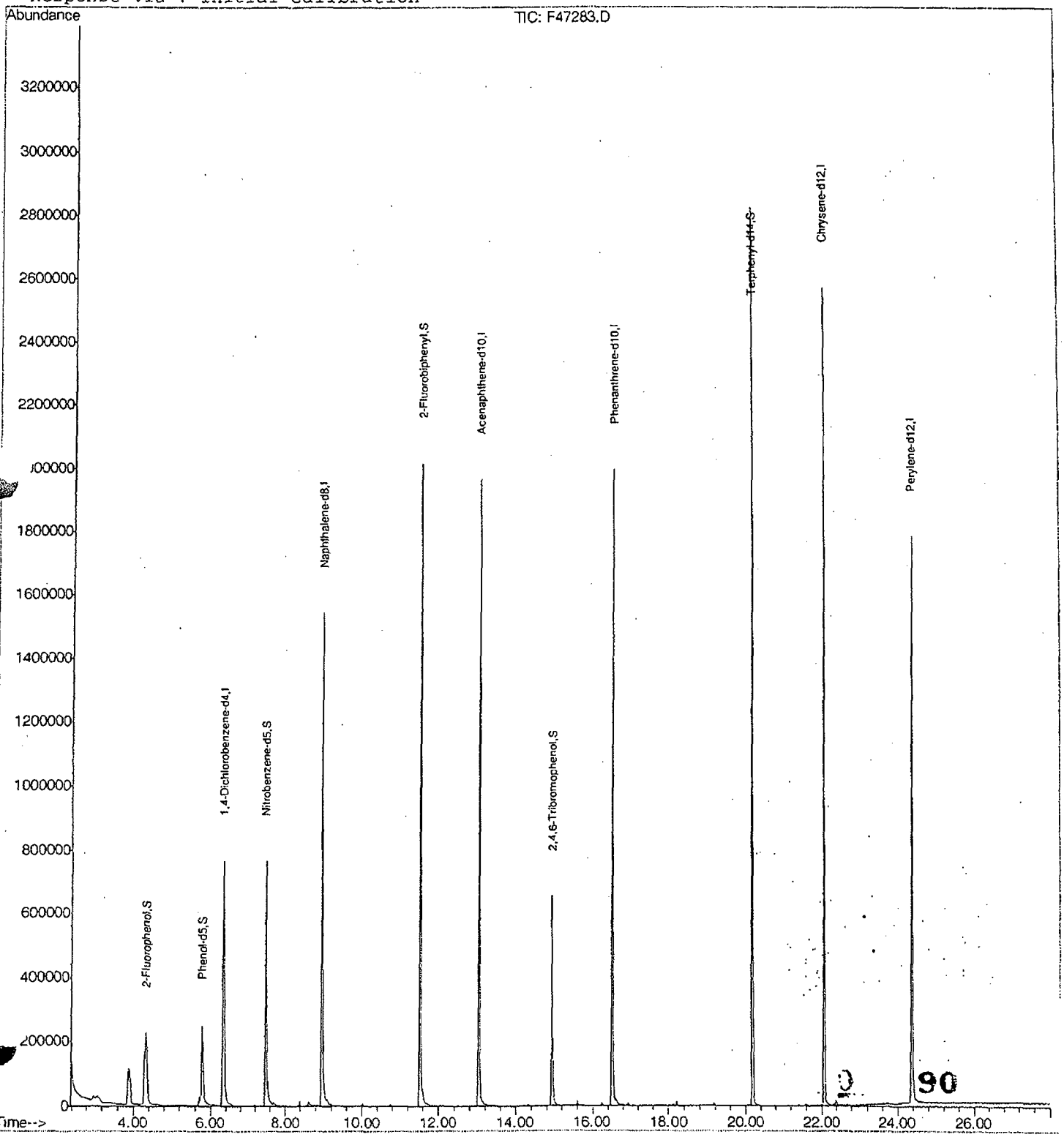
1/10/05

89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2503\F47283.D Vial: 28
Acq On : 31 Dec 2004 6:41 am Operator: NINAP
Sample : N85893-2 Inst : MSF
Misc : OP19011,EF2503,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 3 10:22 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2492\F46968.D Vial: 9
Acq On : 15 Dec 2004 1:11 pm Operator: NINAP
Sample : OP19011-MB1 Inst : MSF
Misc : OP19011,EF2492,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 15 14:42:36 2004 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Dec 15 14:17:29 2004
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	319360	40.00	ppb	0.00
25) Naphthalene-d8	9.13	136	1213909	40.00	ppb	0.00
48) Acenaphthene-d10	13.23	164	605159	40.00	ppb	0.00
70) Phenanthrene-d10	16.71	188	1036319	40.00	ppb	0.00
85) Chrysene-d12	22.21	240	896441	40.00	ppb	0.00
95) Perylene-d12	24.56	264	517876	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.47	112	205627	18.46	ppb	0.00
Spiked Amount 50.000			Recovery =	36.92%		
8) Phenol-d5	5.93	99	210276	15.68	ppb	0.00
Spiked Amount 50.000			Recovery =	31.36%		
26) Nitrobenzene-d5	7.64	82	401912	34.95	ppb	0.00
Spiked Amount 50.000			Recovery =	69.90%		
52) 2-Fluorobiphenyl	11.70	172	802254	34.69	ppb	0.00
Spiked Amount 50.000			Recovery =	69.38%		
75) 2,4,6-Tribromophenol	15.12	330	80916	35.96	ppb	0.00
Spiked Amount 50.000			Recovery =	71.92%		
) Terphenyl-d14	20.33	244	837013	41.41	ppb	0.00
Spiked Amount 50.000			Recovery =	82.82%		
Target Compounds						Qvalue

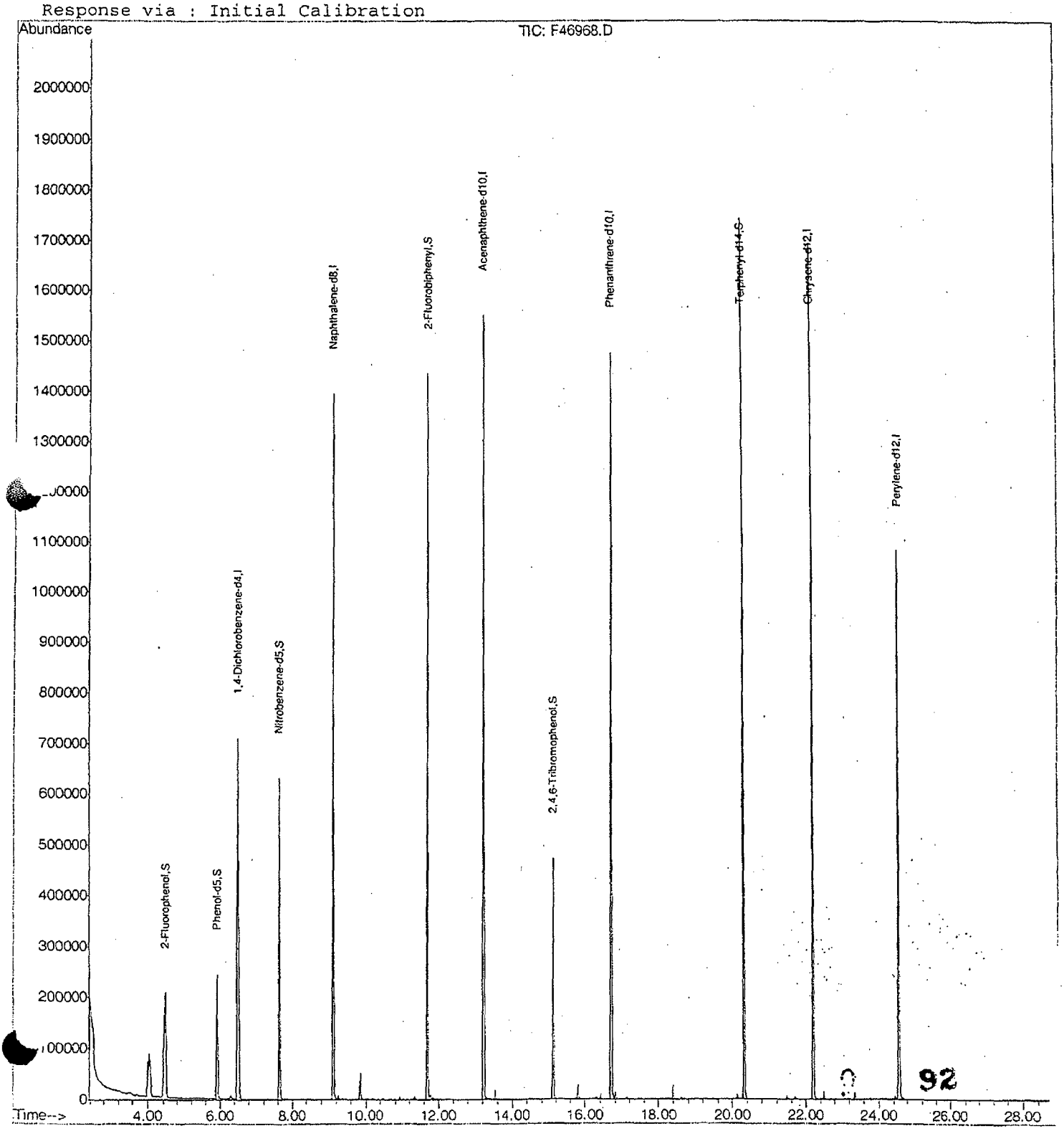
12/15/04

91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2492\F46968.D Vial: 9
Acq On : 15 Dec 2004 1:11 pm Operator: NINAP
Sample : OP19011-MB1 Inst : MSF
Misc : OP19011,EF2492,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 15 14:43 2004 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Dec 15 14:17:29 2004
Response via : Initial Calibration



92

Data File : C:\MSDCHEM\1\DATA\F46968.D
Acq On : 15 Dec 2004 1:11 pm
Sample : OP19011-MB1
Misc : OP19011,EF2492,1000
MS Integration Params: LSCINT.P

Vial: 9
Operator: NINAP
Inst : MSF
Multiplr: 1.00

.od : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON
Filtering: 5
Sampling : 1
Min Area: 1000 Area counts
Start Thrs: 0.05
Max Peaks: 125
Stop Thrs : 0
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.240	159	161	180	rVB8	4702	14860	0.56%	0.065%
2	3.486	201	207	211	rBV7	1738	3750	0.14%	0.017%
3	3.544	212	218	219	rBV4	2084	3028	0.11%	0.013%
4	3.705	242	248	257	rVB5	2688	6828	0.26%	0.030%
5	4.004	298	304	307	rBV	66121	103959	3.90%	0.458%
6	4.047	307	312	328	rVB2	82632	255107	9.58%	1.124%
7	4.180	335	337	342	rVB2	1090	1440	0.05%	0.006%
8	4.426	375	383	385	rBV	121764	198687	7.46%	0.875%
9	4.474	385	392	411	rVB	203756	653393	24.53%	2.879%
10	4.789	443	451	458	rVB4	1465	3882	0.15%	0.017%
[illegible]	4.923	472	476	479	rVB4	803	1197	0.04%	0.005%
[illegible]	5.729	618	627	629	rBV5	932	2132	0.08%	0.009%
13	5.756	629	632	639	rVB6	926	1787	0.07%	0.008%
14	5.927	650	664	682	rVB	242435	539556	20.25%	2.377%
15	6.194	709	714	717	rVB3	1084	1594	0.06%	0.007%
16	6.290	717	732	745	rBV10	7800	20263	0.76%	0.089%
17	6.504	756	772	786	rBV	708561	1881777	70.64%	8.292%
18	6.696	802	808	812	rBV3	738	1036	0.04%	0.005%
19	7.337	922	928	934	rBV3	988	1589	0.06%	0.007%
20	7.642	974	985	1006	rBV	631246	1130078	42.42%	4.979%
21	7.786	1006	1012	1019	rVV7	1347	3532	0.13%	0.016%
22	7.856	1021	1025	1029	rVB4	1322	1405	0.05%	0.006%
23	8.561	1152	1157	1161	rVB2	2775	3959	0.15%	0.017%
24	8.988	1231	1237	1241	rVB3	1298	1727	0.06%	0.008%
25	9.132	1253	1264	1280	rBV	1395563	2332843	87.57%	10.279%
26	9.266	1283	1289	1297	rVB	7331	11771	0.44%	0.052%
27	9.752	1375	1380	1387	rBV2	1527	2428	0.09%	0.011%
28	9.854	1390	1399	1408	rBV	50427	75081	2.82%	0.331%
29	10.922	1591	1599	1606	rVB2	5705	9697	0.36%	0.043%
30	11.024	1613	1618	1623	rBV3	1248	1926	0.07%	0.008%
31	11.333	1669	1676	1686	rVB	6623	9326	0.35%	0.041%
32	11.499	1699	1707	1713	rBV3	849	1787	0.07%	0.008%
33	11.702	1734	1745	1752	rBV	1434801	2273686	85.35%	10.019%
34	11.755	1752	1755	1758	rVV2	6325	10209	0.38%	0.045%
[illegible]	11.787	1758	1761	1768	rVV3	9861	17762	0.67%	0.078%
36	11.841	1768	1771	1776	rVV3	2108	3749	0.14%	0.017%
37	11.878	1776	1778	1785	rVB	1966	2819	0.11%	0.012%
38	12.023	1800	1805	1806	rBV2	728	1077	0.04%	0.005%

93

40	12.226	1835	1843	1848	rVB4	1455	2065	0.08%	0.009%
41	12.300	1851	1857	1862	rBV3	1429	2126	0.08%	0.009%
42	13.230	2020	2031	2044	rBV	1551464	2537648	95.26%	11.182%
43	13.363	2053	2056	2066	rVB2	1112	1782	0.07%	0.008%
44	13.454	2071	2073	2081	rVB3	965	1546	0.06%	0.007%
45	13.529	2081	2087	2097	rBV	19208	26410	0.99%	0.116%
46	13.609	2097	2102	2111	rBV3	1469	2290	0.09%	0.010%
47	13.807	2135	2139	2146	rBV3	1142	1477	0.06%	0.007%
48	14.480	2260	2265	2270	rBV2	833	1219	0.05%	0.005%
49	14.523	2270	2273	2285	rVB4	1038	2149	0.08%	0.009%
50	15.068	2369	2375	2376	rBV3	658	1066	0.04%	0.005%
51	15.116	2376	2384	2402	rVB	472282	750110	28.16%	3.305%
52	15.324	2416	2423	2433	rBV3	1609	4087	0.15%	0.018%
53	15.623	2470	2479	2481	rBV2	591	1117	0.04%	0.005%
54	15.725	2492	2498	2502	rVB2	1443	2125	0.08%	0.009%
55	15.810	2502	2514	2519	rBV2	28172	45125	1.69%	0.199%
56	15.858	2519	2523	2531	rVB2	2019	3580	0.13%	0.016%
57	15.933	2531	2537	2544	rBV5	1738	3620	0.14%	0.016%
58	15.992	2544	2548	2553	rVB3	1220	1894	0.07%	0.008%
59	16.104	2562	2569	2572	rBV	1087	1591	0.06%	0.007%
60	16.195	2582	2586	2591	rBV2	1161	1675	0.06%	0.007%
61	16.286	2598	2603	2609	rBV	3103	5029	0.19%	0.022%
62	16.414	2619	2627	2635	rVB2	11190	19591	0.74%	0.086%
63	16.708	2671	2682	2695	rBV2	1475986	2664029	100.00%	11.739%
64	16.815	2695	2702	2713	rVB	13464	24512	0.92%	0.108%
65	17.124	2750	2760	2766	rVB3	5375	7899	0.30%	0.035%
66	18.262	2965	2973	2980	rBB3	1459	2264	0.08%	0.010%
67	18.396	2989	2998	3008	rVB	26834	38210	1.43%	0.168%
	18.626	3034	3041	3047	rBV4	3597	6436	0.24%	0.028%
	18.690	3047	3053	3057	rVB3	2283	3400	0.13%	0.015%
70	19.032	3112	3117	3124	rBB2	2466	3126	0.12%	0.014%
71	19.256	3155	3159	3161	rBV	832	1095	0.04%	0.005%
72	19.454	3187	3196	3200	rBB2	1136	1658	0.06%	0.007%
73	19.758	3247	3253	3257	rVB	814	1309	0.05%	0.006%
74	20.148	3321	3326	3332	rBV	8832	11583	0.43%	0.051%
75	20.202	3332	3336	3339	rVB3	1438	1412	0.05%	0.006%
76	20.239	3339	3343	3349	rBV	853	1634	0.06%	0.007%
77	20.330	3349	3360	3372	rBV	1745067	2472166	92.80%	10.893%
78	20.640	3412	3418	3425	rVB	1041	1694	0.06%	0.007%
79	20.773	3435	3443	3447	rBV2	519	1178	0.04%	0.005%
80	21.275	3530	3537	3541	rBV	864	1354	0.05%	0.006%
81	21.478	3565	3575	3580	rBV2	6069	8875	0.33%	0.039%
82	21.542	3584	3587	3595	rVB2	872	1840	0.07%	0.008%
83	21.713	3612	3619	3623	rBV2	5258	7324	0.27%	0.032%
84	22.130	3694	3697	3702	rBV3	830	1366	0.05%	0.006%
85	22.210	3702	3712	3727	rBV	1693411	2467321	92.62%	10.872%
86	22.467	3754	3760	3762	rBV3	3827	5037	0.19%	0.022%
87	22.504	3762	3767	3776	rVB2	15704	22801	0.86%	0.100%
88	22.825	3822	3827	3835	rBV4	1484	2635	0.10%	0.012%
89	23.076	3867	3874	3881	rBV4	1029	1874	0.07%	0.008%
90	23.156	3886	3889	3894	rBV2	945	1026	0.04%	0.005%
	23.364	3922	3928	3940	rBV2	12408	23045	0.87%	0.102%
	23.492	3948	3952	3956	rVB3	1353	1315	0.05%	0.006%
93	23.792	4001	4008	4012	rBV4	1811	2824	0.11%	0.012%
94	24.059	4055	4058	4065	rVB3	640	1107	0.04%	0.005%
95	24.246	4092	4093	4099	rBV3	719	1048	0.04%	0.005%

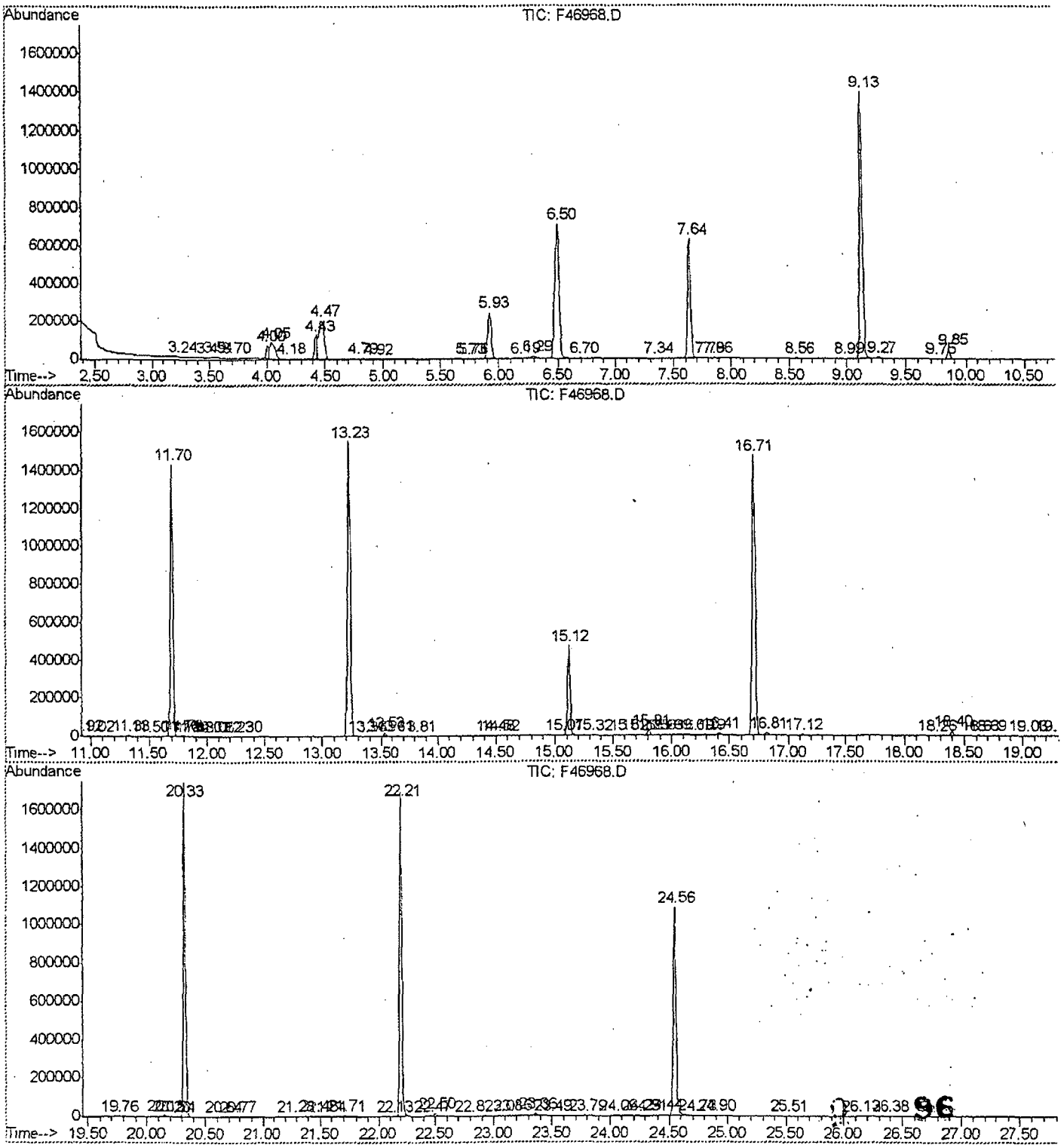
94

96	24.310	4099	4105	4106	rBV4	1165	1419	0.05%	0.006%
97	24.443	4123	4130	4139	rBV2	5778	11597	0.44%	0.051%
98	24.555	4139	4151	4171	rVV2	1082603	1869842	70.19%	8.239%
99	24.726	4180	4183	4190	rBV4	760	1217	0.05%	0.005%
100	24.897	4213	4215	4221	rBV4	722	1206	0.05%	0.005%
10[illegible]	25.512	4325	4330	4332	rBV3	821	1142	0.04%	0.005%
1[illegible]	26.131	4441	4446	4450	rBV3	710	1087	0.04%	0.005%
10[illegible]	26.383	4489	4493	4496	rBV4	752	1039	0.04%	0.005%

Sum of corrected areas: 22694764

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\F46968.D
Operator : NINAP
Acquired : 15 Dec 2004 1:11 pm using AcqMethod MF2491
Instrument : MSF
Sample Name: OP19011-MB1
Misc Info : OP19011,EF2492,1000
Vial Number: 9
Quant File :MF2491.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\F46968.D Vial: 9
Acq On : 15 Dec 2004 1:11 pm Operator: NINAP
Sample : OP19011-MB1 Inst : MSF
Misc : OP19011,EF2492,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P

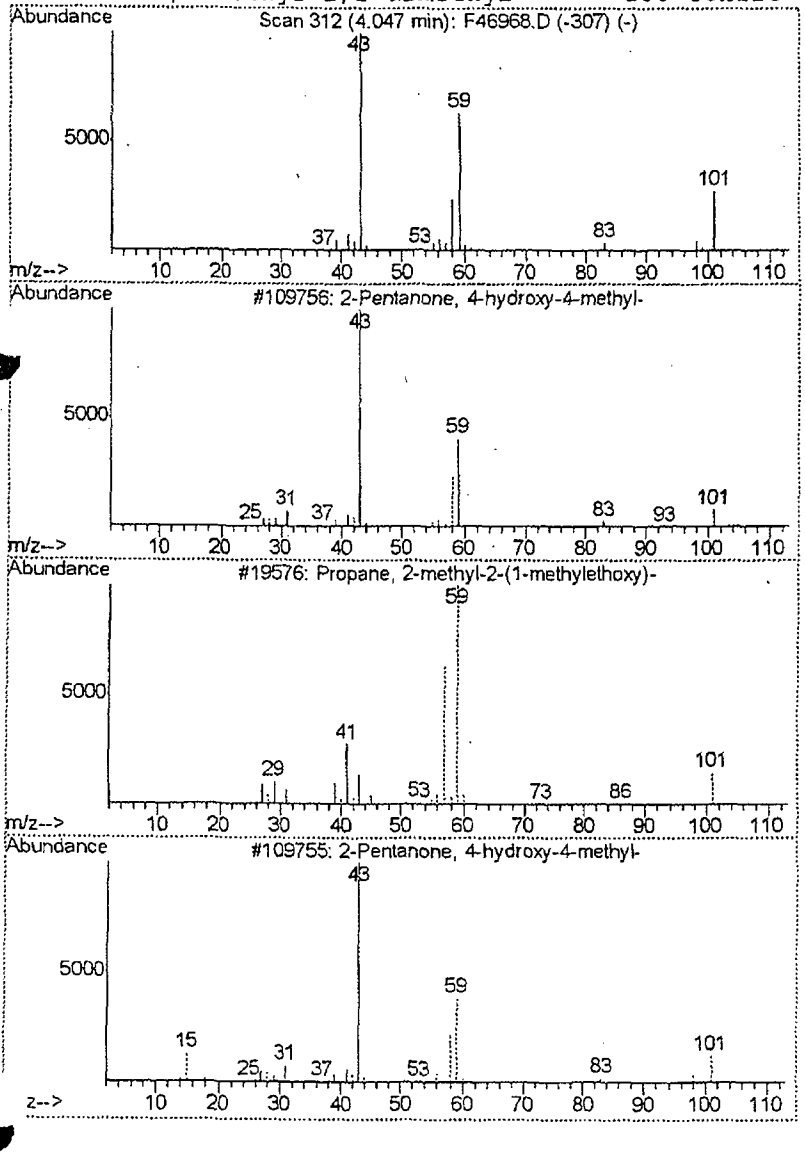
Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Library : C:\DATABASE\NIST98.L

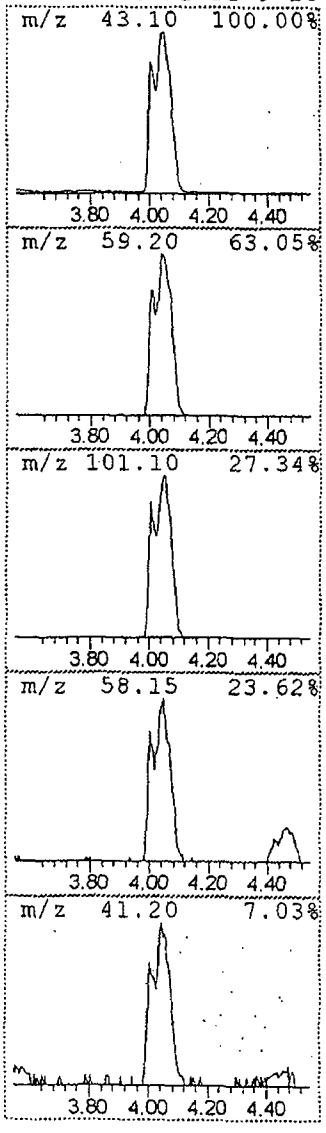
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.05	4.37 ppb	255107	Naphthalene-d8	9.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	38
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	38
4	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	25





)perator ID: NINAP Date Acquired: 15 Dec 2004 1:11 pm
)ata File: C:\MSDCHEM\1\DATA\F46968.D
lame: OP19011-MB1
lisc: OP19011,EF2492,1000
lethod: C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
lit Semi Volatile Extractables by GC/MS
[illegible]ry Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
2-Pentanone, 4-hy...	4.05	4.4	ppb	255107	2	9.13	2332840	40.0

98

New Jersey
ACCUTEST.
Laboratories

01/12/05

Technical Report for

Arcadis Geraghty & Miller

PSEG-Salem, Artificial Island, Salem, NJ

NP000571

Accutest Job Number: N86261

Sampling Date: 12/13/04

Report to:

Arcadis Geraghty & Miller
6 Terry Drive
Newtown, PA 18940

ATTN: Brad Pierce

Total number of pages in report: 137

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Sample Summary

Arcadis Geraghty & Miller

Job No: N86261

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
N86261-1	12/13/04	13:55 RM	12/15/04	AQ	Ground Water	WELL AY
N86261-2	12/13/04	15:35 RM	12/15/04	AQ	Ground Water	WELL AV
N86261-3	12/13/04	17:15 RM	12/15/04	AQ	Ground Water	WELL X
N86261-4	12/13/04	18:05 RM	12/15/04	AQ	Field Blank Water	FB-2
N86261-5	12/13/04	18:05 RM	12/15/04	AQ	Trip Blank Water	TRIP BLANK
N86261-6	12/13/04	17:15 RM	12/15/04	AQ	Ground Water	WELL AX

ACCUTEST

Table Of Contents
Reduced Laboratory Data Deliverables
For
Non-USEPA/CLP Methods

RESULTS

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N86261-1	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70819.D	1	12/23/04	MMC	n/a	n/a	VS2585
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N86261-1	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-119%
17060-07-0	1,2-Dichloroethane-D4	95%		68-129%
2037-26-5	Toluene-D8	98%		83-118%
460-00-4	4-Bromofluorobenzene	101%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N86261-1	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47512.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	4.5	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	0.78	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	0.69	ug/l	
95-48-7	2-Methylphenol	ND	5.3	0.77	ug/l	
	3&4-Methylphenol	ND	5.3	0.75	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	0.78	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.4	ug/l	
87-86-5	Pentachlorophenol	ND	21	0.80	ug/l	
108-95-2	Phenol	ND	5.3	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	0.79	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.85	ug/l	
83-32-9	Acenaphthene	ND	2.1	0.31	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.37	ug/l	
120-12-7	Anthracene	ND	2.1	0.23	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.29	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.41	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.39	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.53	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.57	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.57	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.40	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.45	ug/l	
86-74-8	Carbazole	ND	2.1	0.36	ug/l	
218-01-9	Chrysene	ND	2.1	0.28	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.36	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.52	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.47	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	1.1	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N86261-1	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.1	0.25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.1	0.34	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.1	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.82	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.41	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.62	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.52	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.84	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.67	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	1.5	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.61	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.78	ug/l	
206-44-0	Fluoranthene	ND	2.1	0.67	ug/l	
86-73-7	Fluorene	ND	2.1	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	2.1	1.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.1	0.44	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	0.48	ug/l	
67-72-1	Hexachloroethane	ND	5.3	0.71	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	1.6	ug/l	
78-59-1	Isophorone	ND	2.1	0.57	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.77	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.1	ug/l	
91-20-3	Naphthalene	ND	2.1	1.1	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.65	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.85	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.25	ug/l	
129-00-0	Pyrene	ND	2.1	0.62	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.1	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-88%
4165-62-2	Phenol-d5	29%		10-71%
118-79-6	2,4,6-Tribromophenol	87%		45-134%
4165-60-0	Nitrobenzene-d5	76%		32-128%
321-60-8	2-Fluorobiphenyl	70%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N86261-1	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%		41-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N86261-2	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70820.D	1	12/23/04	MMC	n/a	n/a	VS2585
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N86261-2	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-119%
17060-07-0	1,2-Dichloroethane-D4	97%		68-129%
2037-26-5	Toluene-D8	98%		83-118%
460-00-4	4-Bromofluorobenzene	101%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N86261-2	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47513.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	4.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	5.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	0.81	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	1.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	0.72	ug/l	
95-48-7	2-Methylphenol	ND	5.6	0.80	ug/l	
	3&4-Methylphenol	ND	5.6	0.78	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	0.81	ug/l	
100-02-7	4-Nitrophenol	ND	22	2.5	ug/l	
87-86-5	Pentachlorophenol	ND	22	0.84	ug/l	
108-95-2	Phenol	ND	5.6	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	0.83	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	0.89	ug/l	
83-32-9	Acenaphthene	0.64	2.2	0.33	ug/l	J
208-96-8	Acenaphthylene	ND	2.2	0.39	ug/l	
120-12-7	Anthracene	ND	2.2	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.30	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.43	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.41	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.55	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.42	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.60	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.60	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.47	ug/l	
86-74-8	Carbazole	ND	2.2	0.38	ug/l	
218-01-9	Chrysene	ND	2.2	0.29	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.37	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.54	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.49	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	1.1	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N86261-2	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.2	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.2	0.36	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.2	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.86	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.69	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.43	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.64	ug/l	
132-64-9	Dibenzofuran	0.71	5.6	0.54	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.2	0.87	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.70	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	1.6	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.64	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.82	ug/l	
206-44-0	Fluoranthene	1.0	2.2	0.70	ug/l	J
86-73-7	Fluorene	1.4	2.2	0.99	ug/l	J
118-74-1	Hexachlorobenzene	ND	2.2	1.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.2	0.46	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	22	0.50	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.74	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	1.7	ug/l	
78-59-1	Isophorone	ND	2.2	0.60	ug/l	
91-57-6	2-Methylnaphthalene	1.8	2.2	0.80	ug/l	J
88-74-4	2-Nitroaniline	ND	5.6	1.5	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.2	ug/l	
91-20-3	Naphthalene	3.9	2.2	1.1	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.56	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.88	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.26	ug/l	
129-00-0	Pyrene	0.96	2.2	0.65	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.2	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-88%
4165-62-2	Phenol-d5	32%		10-71%
118-79-6	2,4,6-Tribromophenol	99%		45-134%
4165-60-0	Nitrobenzene-d5	78%		32-128%
321-60-8	2-Fluorobiphenyl	73%		34-121%

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N86261-2	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	93%		41-129%

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N86261-3	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70853.D	1	12/24/04	MMC	n/a	n/a	VS2588
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	0.87	1.0	0.37	ug/l	J
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N86261-3	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-119%
17060-07-0	1,2-Dichloroethane-D4	99%		68-129%
2037-26-5	Toluene-D8	100%		83-118%
460-00-4	4-Bromofluorobenzene	100%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N86261-3	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47474.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N86261-3	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-88%
4165-62-2	Phenol-d5	27%		10-71%
118-79-6	2,4,6-Tribromophenol	88%		45-134%
4165-60-0	Nitrobenzene-d5	72%		32-128%
321-60-8	2-Fluorobiphenyl	69%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N86261-3	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		41-129%

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Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	N86261-4	**Date Sampled:**	12/13/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70854.D	1	12/24/04	MMC	n/a	n/a	VS2588
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	N86261-4	**Date Sampled:**	12/13/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-119%
17060-07-0	1,2-Dichloroethane-D4	101%		68-129%
2037-26-5	Toluene-D8	100%		83-118%
460-00-4	4-Bromofluorobenzene	102%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	N86261-4	**Date Sampled:**	12/13/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47475.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	N86261-4	**Date Sampled:**	12/13/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		10-88%
4165-62-2	Phenol-d5	29%		10-71%
118-79-6	2,4,6-Tribromophenol	81%		45-134%
4165-60-0	Nitrobenzene-d5	85%		32-128%
321-60-8	2-Fluorobiphenyl	75%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	N86261-4	**Date Sampled:**	12/13/04
Matrix:	AQ - Field Blank Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		41-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N86261-5	**Date Sampled:**	12/13/04
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70855.D	1	12/24/04	MMC	n/a	n/a	VS2588
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N86261-5	**Date Sampled:**	12/13/04
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-119%
17060-07-0	1,2-Dichloroethane-D4	103%		68-129%
2037-26-5	Toluene-D8	101%		83-118%
460-00-4	4-Bromofluorobenzene	103%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL AX		
Lab Sample ID:	N86261-6	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S70856.D	1	12/24/04	MMC	n/a	n/a	VS2588
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AX		
Lab Sample ID:	N86261-6	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-119%
17060-07-0	1,2-Dichloroethane-D4	105%		68-129%
2037-26-5	Toluene-D8	101%		83-118%
460-00-4	4-Bromofluorobenzene	101%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AX		
Lab Sample ID:	N86261-6	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F47484.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AX		
Lab Sample ID:	N86261-6	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		10-88%
4165-62-2	Phenol-d5	32%		10-71%
118-79-6	2,4,6-Tribromophenol	96%		45-134%
4165-60-0	Nitrobenzene-d5	89%		32-128%
321-60-8	2-Fluorobiphenyl	85%		34-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AX		
Lab Sample ID:	N86261-6	**Date Sampled:**	12/13/04
Matrix:	AQ - Ground Water	**Date Received:**	12/15/04
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PSEG-Salem, Artificial Island, Salem, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	112%		41-129%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

GW, FB, TB

ACCUTEST Laboratories

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www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # N86261

Client / Reporting Information

Company Name: Arcadis
Address: 6 Terry Dne Suite 360
City: Newtown State: PA Zip: 18940
Project Contact: Brad Pierce E-mail: bpierce@arcadis-us.com
Phone #: 267-685-1900
Sampler's Name: Ryan McKinney

Project Information

Project Name: PSEG
Street:
City: Salem State: NJ
Project #:
Fax #: 267-685-1801
Client Purchase Order #:

Requested Analysis: 8260 □ BTEX □ 624 □ MTBE □ 8021 □ TBA □ 602 □ NAP □ PALG □ PALG □; 8260 □ TBA □ 624 □ NAP □ TCL □ +10 □ PPL □ +15 □ STARS □ MTBE □; 8270 □ ABN □ 625 □ BN □ TCL □ PAH □ PPL □ PAOF □ STARS □ +TICS □; VOC 8260 b; SVOC 8270C

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC 8260 b	SVOC 8270C	LAB USE ONLY
-1	Well AY		12-13-04	1355	RDM	GW	5	3				2				X	X	EX36, 800
-2	Well AV		↓	1535	↓	↓	5	3				2				X	X	
-3	Well X		↓	1715	↓	↓	5	3				2				X	X	
-4	FB-2		↓	1805	↓	—	4	2				2				X	X	
-5	Trip Blank		↓	—	—	—	2	2								X		
-6	Well AX		12-13-04	1715	RDM	GW	5	3				2				X	X	

Turnaround Time (Business Days) — Approved By: / Date:

- ☐ Std. 15 Business Days
- ☐ 10 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other ______
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format ______

Commercial "A" = Results Only

Comments / Remarks

TB filled 12/13/04 @ 0630

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1 [signature]	12/14/04 1445	1 Brad Pierce	2 Brad Pierce	12/15/04 2:25	2 [signature]
Relinquished by: 3 [signature]	Date Time: 12/15/04 10:30	Received by: 3 [signature]	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 2.8

TB

Internal Sample Tracking Chronicle

Arcadis Geraghty & Miller

Job No: N86261

PSEG-Salem, Artificial Island, Salem, NJ
Project No: NP000571

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
N86261-1 Collected: 13-DEC-04 13:55 By: RM Received: 15-DEC-04 By: JD WELL AY						
N86261-1	SW846 8260B	23-DEC-04 06:36	MMC			V8260TCL
N86261-1	SW846 8270C	10-JAN-05 10:31	NAP	16-DEC-04	CAS	AB8270TCL
N86261-2 Collected: 13-DEC-04 15:35 By: RM Received: 15-DEC-04 By: JD WELL AV						
N86261-2	SW846 8260B	23-DEC-04 07:07	MMC			V8260TCL
N86261-2	SW846 8270C	10-JAN-05 11:07	NAP	16-DEC-04	CAS	AB8270TCL
N86261-3 Collected: 13-DEC-04 17:15 By: RM Received: 15-DEC-04 By: JD WELL X						
N86261-3	SW846 8260B	24-DEC-04 02:20	MMC			V8260TCL
N86261-3	SW846 8270C	08-JAN-05 12:13	NAP	16-DEC-04	CAS	AB8270TCL
N86261-4 Collected: 13-DEC-04 18:05 By: RM Received: 15-DEC-04 By: JD FB-2						
N86261-4	SW846 8260B	24-DEC-04 02:50	MMC			V8260TCL
N86261-4	SW846 8270C	08-JAN-05 12:49	NAP	16-DEC-04	CAS	AB8270TCL
N86261-5 Collected: 13-DEC-04 18:05 By: RM Received: 15-DEC-04 By: JD TRIP BLANK						
N86261-5	SW846 8260B	24-DEC-04 03:20	MMC			V8260TCL
N86261-6 Collected: 13-DEC-04 17:15 By: RM Received: 15-DEC-04 By: JD WELL AX						
N86261-6	SW846 8260B	24-DEC-04 03:50	MMC			V8260TCL
N86261-6	SW846 8270C	08-JAN-05 18:12	NAP	16-DEC-04	CAS	AB8270TCL

GC/MS

GC/MS VOLATILE

ACCUTEST.

GC/MS Analysis Case Narrative/Conformance/Non-Conformance Summary

Fraction Volatile

	NO	YES
1. Chromatograms Labeled/Compounds Identified *(Field Samples and Method Blanks)*		✓
2. GC/MS Tune Meet Criteria		✓
3. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series.		✓
4. GC/MS Calibration – Initial and Continuing Calibration Meet Method Requirements		✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds		✓
b. System Performance Check Compounds		✓
6. Blank Contamination	✓	
If yes, the sample result is qualified with a "B".		
7. Surrogate Recoveries Meet Criteria		✓
If the requirement is not met, refer to the Surrogate Summary for comment.		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		*1/
If the requirement is not met, refer to MS/MSD Summary for comment.		
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓
If the requirement is not met, refer to the Internal Standard Summary for comment.		
10. Extraction Holding Time Met		N/A
If the holding time is not met, refer to the Sample Result page for comment.		
11. Analysis Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		
12. Volatile Sample Preservation – pH should be < 2. *List any non-compliant samples below:*		

Additional Comments: *1. See footnote for detail.

QC Review Signature: Ilona Chang Date: 1/20/05

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2585-MB1	S70809.D	1	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-1, N86261-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2585-MB1	S70809.D	1	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: Method: SW846 8260B

N86261-1, N86261-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	79-119%
17060-07-0	1,2-Dichloroethane-D4	89%	68-129%
2037-26-5	Toluene-D8	97%	83-118%
460-00-4	4-Bromofluorobenzene	98%	82-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2588-MB1	S70847.D	1	12/23/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2588-MB1	S70847.D	1	12/23/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	79-119%
17060-07-0	1,2-Dichloroethane-D4	98%	68-129%
2037-26-5	Toluene-D8	101%	83-118%
460-00-4	4-Bromofluorobenzene	100%	82-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2585-BS	S70810.D	1	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-1, N86261-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	45.5	91	53-153
71-43-2	Benzene	50	48.0	96	77-119
75-27-4	Bromodichloromethane	50	48.5	97	82-126
75-25-2	Bromoform	50	53.4	107	73-135
74-83-9	Bromomethane	50	53.3	107	61-138
78-93-3	2-Butanone (MEK)	50	46.0	92	58-142
75-15-0	Carbon disulfide	50	33.4	67	60-130
56-23-5	Carbon tetrachloride	50	47.4	95	72-140
108-90-7	Chlorobenzene	50	50.0	100	81-117
75-00-3	Chloroethane	50	53.7	107	69-135
67-66-3	Chloroform	50	45.4	91	80-122
74-87-3	Chloromethane	50	59.7	119	59-132
124-48-1	Dibromochloromethane	50	50.8	102	80-125
75-34-3	1,1-Dichloroethane	50	44.6	89	78-121
107-06-2	1,2-Dichloroethane	50	46.2	92	66-137
75-35-4	1,1-Dichloroethene	50	42.9	86	73-124
156-59-2	cis-1,2-Dichloroethene	50	44.2	88	76-120
156-60-5	trans-1,2-Dichloroethene	50	43.2	86	73-119
78-87-5	1,2-Dichloropropane	50	47.4	95	82-117
10061-01-5	cis-1,3-Dichloropropene	50	47.3	95	81-120
10061-02-6	trans-1,3-Dichloropropene	50	47.6	95	81-125
100-41-4	Ethylbenzene	50	50.7	101	79-120
591-78-6	2-Hexanone	50	45.3	91	66-140
108-10-1	4-Methyl-2-pentanone(MIBK)	50	47.4	95	70-134
75-09-2	Methylene chloride	50	45.5	91	75-122
100-42-5	Styrene	50	53.8	108	80-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.3	99	76-117
127-18-4	Tetrachloroethene	50	49.5	99	69-130
108-88-3	Toluene	50	48.2	96	81-120
71-55-6	1,1,1-Trichloroethane	50	45.3	91	77-132
79-00-5	1,1,2-Trichloroethane	50	48.6	97	85-117
79-01-6	Trichloroethene	50	47.5	95	83-119
75-01-4	Vinyl chloride	50	60.1	120	65-135
1330-20-7	Xylene (total)	150	151	101	81-119

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2585-BS	S70810.D	1	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-1, N86261-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	79-119%
17060-07-0	1,2-Dichloroethane-D4	89%	68-129%
2037-26-5	Toluene-D8	99%	83-118%
460-00-4	4-Bromofluorobenzene	97%	82-120%

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2588-BS	S70848.D	1	12/23/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	48.3	97	53-153
71-43-2	Benzene	50	48.6	97	77-119
75-27-4	Bromodichloromethane	50	49.3	99	82-126
75-25-2	Bromoform	50	49.5	99	73-135
74-83-9	Bromomethane	50	52.0	104	61-138
78-93-3	2-Butanone (MEK)	50	47.1	94	58-142
75-15-0	Carbon disulfide	50	47.6	95	60-130
56-23-5	Carbon tetrachloride	50	50.6	101	72-140
108-90-7	Chlorobenzene	50	51.3	103	81-117
75-00-3	Chloroethane	50	52.9	106	69-135
67-66-3	Chloroform	50	48.5	97	80-122
74-87-3	Chloromethane	50	51.4	103	59-132
124-48-1	Dibromochloromethane	50	50.2	100	80-125
75-34-3	1,1-Dichloroethane	50	50.6	101	78-121
107-06-2	1,2-Dichloroethane	50	51.4	103	66-137
75-35-4	1,1-Dichloroethene	50	47.2	94	73-124
156-59-2	cis-1,2-Dichloroethene	50	47.6	95	76-120
156-60-5	trans-1,2-Dichloroethene	50	47.3	95	73-119
78-87-5	1,2-Dichloropropane	50	49.4	99	82-117
10061-01-5	cis-1,3-Dichloropropene	50	50.3	101	81-120
10061-02-6	trans-1,3-Dichloropropene	50	50.3	101	81-125
100-41-4	Ethylbenzene	50	50.4	101	79-120
591-78-6	2-Hexanone	50	48.6	97	66-140
108-10-1	4-Methyl-2-pentanone(MIBK)	50	49.5	99	70-134
75-09-2	Methylene chloride	50	48.2	96	75-122
100-42-5	Styrene	50	50.9	102	80-125
79-34-5	1,1,2,2-Tetrachloroethane	50	48.5	97	76-117
127-18-4	Tetrachloroethene	50	51.9	104	69-130
108-88-3	Toluene	50	48.3	97	81-120
71-55-6	1,1,1-Trichloroethane	50	48.6	97	77-132
79-00-5	1,1,2-Trichloroethane	50	48.7	97	85-117
79-01-6	Trichloroethene	50	49.5	99	83-119
75-01-4	Vinyl chloride	50	53.6	107	65-135
1330-20-7	Xylene (total)	150	151	101	81-119

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VS2588-BS	S70848.D	1	12/23/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	79-119%
17060-07-0	1,2-Dichloroethane-D4	99%	68-129%
2037-26-5	Toluene-D8	101%	83-118%
460-00-4	4-Bromofluorobenzene	99%	82-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N86169-2MS	S70811.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2MSD	S70812.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2	S70813.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2	S70814.D	25	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-1, N86261-2

CAS No.	Compound	N86169-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	240	96	224	90	7	47-163/22
71-43-2	Benzene	ND		250	248	99	246	98	1	51-138/10
75-27-4	Bromodichloromethane	ND		250	250	100	248	99	1	80-128/10
75-25-2	Bromoform	ND		250	276	110	267	107	3	68-137/10
74-83-9	Bromomethane	ND		250	234	94	232	93	1	61-141/17
78-93-3	2-Butanone (MEK)	ND		250	253	101	242	97	4	55-149/22
75-15-0	Carbon disulfide	ND		250	232	93	236	94	2	59-128/14
56-23-5	Carbon tetrachloride	2.7	J	250	255	101	253	100	1	71-143/13
108-90-7	Chlorobenzene	ND		250	255	102	254	102	0	78-120/10
75-00-3	Chloroethane	ND		250	231	92	226	90	2	67-139/16
67-66-3	Chloroform	ND		250	237	95	231	92	3	78-126/11
74-87-3	Chloromethane	ND		250	215	86	207	83	4	57-134/17
124-48-1	Dibromochloromethane	ND		250	265	106	260	104	2	79-127/10
75-34-3	1,1-Dichloroethane	ND		250	236	94	231	92	2	75-125/11
107-06-2	1,2-Dichloroethane	ND		250	238	95	234	94	2	63-142/12
75-35-4	1,1-Dichloroethene	4.3	J	250	242	95	240	94	1	69-129/12
156-59-2	cis-1,2-Dichloroethene	10		250	248	95	245	94	1	73-127/10
156-60-5	trans-1,2-Dichloroethene	ND		250	240	96	236	94	2	71-123/11
78-87-5	1,2-Dichloropropane	ND		250	246	98	244	98	1	81-120/10
10061-01-5	cis-1,3-Dichloropropene	ND		250	245	98	241	96	2	78-121/10
10061-02-6	trans-1,3-Dichloropropene	ND		250	244	98	240	96	2	77-128/11
100-41-4	Ethylbenzene	ND		250	254	102	252	101	1	51-142/11
591-78-6	2-Hexanone	ND		250	245	98	226	90	8	64-145/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		250	236	94	223	89	6	66-140/12
75-09-2	Methylene chloride	ND		250	241	96	238	95	1	73-126/10
100-42-5	Styrene	ND		250	260	104	257	103	1	79-130/10
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	254	102	245	98	4	74-121/10
127-18-4	Tetrachloroethene	10.9		250	270	104	270	104	0	70-128/12
108-88-3	Toluene	ND		250	251	100	249	100	1	49-147/10
71-55-6	1,1,1-Trichloroethane	3.4	J	250	242	95	238	94	2	74-136/13
79-00-5	1,1,2-Trichloroethane	ND		250	253	101	247	99	2	83-121/10
79-01-6	Trichloroethene	3700 [b]		250	3210	-196* [a]	3180	-208* [a]	1	75-128/10
75-01-4	Vinyl chloride	ND		250	229	92	228	91	0	60-141/16
1330-20-7	Xylene (total)	ND		750	769	103	759	101	1	44-146/11

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N86169-2MS	S70811.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2MSD	S70812.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2	S70813.D	5	12/23/04	MMC	n/a	n/a	VS2585
N86169-2	S70814.D	25	12/23/04	MMC	n/a	n/a	VS2585

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-1, N86261-2

CAS No.	Surrogate Recoveries	MS	MSD	N86169-2	N86169-2	Limits
1868-53-7	Dibromofluoromethane	96%	95%	93%	96%	79-119%
17060-07-0	1,2-Dichloroethane-D4	89%	87%	88%	89%	68-129%
2037-26-5	Toluene-D8	99%	99%	97%	98%	83-118%
460-00-4	4-Bromofluorobenzene	98%	97%	98%	99%	82-120%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N86426-16MS	S70849.D	10	12/24/04	MMC	n/a	n/a	VS2588
N86426-16MSD	S70850.D	10	12/24/04	MMC	n/a	n/a	VS2588
N86426-16	S70852.D	10	12/24/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: Method: SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Compound	N86426-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		500	512	102	509	102	1	47-163/22
71-43-2	Benzene	ND		500	501	100	494	99	1	51-138/10
75-27-4	Bromodichloromethane	ND		500	502	100	495	99	1	80-128/10
75-25-2	Bromoform	ND		500	508	102	498	100	2	68-137/10
74-83-9	Bromomethane	ND		500	506	101	487	97	4	61-141/17
78-93-3	2-Butanone (MEK)	ND		500	482	96	497	99	3	55-149/22
75-15-0	Carbon disulfide	ND		500	463	93	450	90	3	59-128/14
56-23-5	Carbon tetrachloride	ND		500	518	104	501	100	3	71-143/13
108-90-7	Chlorobenzene	ND		500	513	103	513	103	0	78-120/10
75-00-3	Chloroethane	ND		500	518	104	501	100	3	67-139/16
67-66-3	Chloroform	ND		500	479	96	470	94	2	78-126/11
74-87-3	Chloromethane	ND		500	502	100	481	96	4	57-134/17
124-48-1	Dibromochloromethane	ND		500	508	102	507	101	0	79-127/10
75-34-3	1,1-Dichloroethane	ND		500	502	100	490	98	2	75-125/11
107-06-2	1,2-Dichloroethane	ND		500	517	103	506	101	2	63-142/12
75-35-4	1,1-Dichloroethene	ND		500	471	94	461	92	2	69-129/12
156-59-2	cis-1,2-Dichloroethene	ND		500	472	94	471	94	0	73-127/10
156-60-5	trans-1,2-Dichloroethene	ND		500	473	95	455	91	4	71-123/11
78-87-5	1,2-Dichloropropane	ND		500	507	101	507	101	0	81-120/10
10061-01-5	cis-1,3-Dichloropropene	ND		500	505	101	493	99	2	78-121/10
10061-02-6	trans-1,3-Dichloropropene	ND		500	508	102	497	99	2	77-128/11
100-41-4	Ethylbenzene	ND		500	508	102	503	101	1	51-142/11
591-78-6	2-Hexanone	ND		500	500	100	485	97	3	64-145/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		500	499	100	487	97	2	66-140/12
75-09-2	Methylene chloride	ND		500	474	95	465	93	2	73-126/10
100-42-5	Styrene	ND		500	509	102	504	101	1	79-130/10
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	495	99	488	98	1	74-121/10
127-18-4	Tetrachloroethene	1460		500	1870	82	1850	78	1	70-128/12
108-88-3	Toluene	ND		500	495	99	485	97	2	49-147/10
71-55-6	1,1,1-Trichloroethane	ND		500	481	96	469	94	3	74-136/13
79-00-5	1,1,2-Trichloroethane	ND		500	499	100	489	98	2	83-121/10
79-01-6	Trichloroethene	ND		500	506	101	495	99	2	75-128/10
75-01-4	Vinyl chloride	ND		500	519	104	504	101	3	60-141/16
1330-20-7	Xylene (total)	4.2	J	1500	1530	102	1500	100	2	44-146/11

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N86426-16MS	S70849.D	10	12/24/04	MMC	n/a	n/a	VS2588
N86426-16MSD	S70850.D	10	12/24/04	MMC	n/a	n/a	VS2588
N86426-16	S70852.D	10	12/24/04	MMC	n/a	n/a	VS2588

The QC reported here applies to the following samples: **Method:** SW846 8260B

N86261-3, N86261-4, N86261-5, N86261-6

CAS No.	Surrogate Recoveries	MS	MSD	N86426-16	Limits
1868-53-7	Dibromofluoromethane	97%	96%	97%	79-119%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	99%	68-129%
2037-26-5	Toluene-D8	101%	100%	100%	83-118%
460-00-4	4-Bromofluorobenzene	99%	99%	100%	82-120%

Instrument Performance Check (BFB)

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	VS2585-BFB	**Injection Date:**	12/22/04
Lab File ID:	S70797.D	**Injection Time:**	19:37
Instrument ID:	GCMSS		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2513	15.2		Pass
75	30.0 - 60.0% of mass 95	7106	43.0		Pass
95	Base peak, 100% relative abundance	16507	100.0		Pass
96	5.0 - 9.0% of mass 95	1129	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	15383	93.2		Pass
175	5.0 - 9.0% of mass 174	1106	6.7	(7.2) [a]	Pass
176	95.0 - 101.0% of mass 174	14932	90.5	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	1003	6.1	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VS2585-IC2585	S70799.D	12/22/04	20:37	01:00	Initial cal 5
VS2585-IC2585	S70800.D	12/22/04	21:06	01:29	Initial cal 2
VS2585-IC2585	S70801.D	12/22/04	21:37	02:00	Initial cal 1
VS2585-IC2585	S70803.D	12/22/04	22:36	02:59	Initial cal 20
VS2585-ICC2585	S70804.D	12/22/04	23:06	03:29	Initial cal 50
VS2585-IC2585	S70805.D	12/22/04	23:36	03:59	Initial cal 100
VS2585-IC2585	S70806.D	12/23/04	00:06	04:29	Initial cal 200
VS2585-MB1	S70809.D	12/23/04	01:36	05:59	Method Blank
VS2585-BS	S70810.D	12/23/04	02:06	06:29	Blank Spike
N86169-2MS	S70811.D	12/23/04	02:36	06:59	Matrix Spike
N86169-2MSD	S70812.D	12/23/04	03:06	07:29	Matrix Spike Duplicate
N86169-2	S70813.D	12/23/04	03:36	07:59	(used for QC only; not part of job N86261)
N86169-2	S70814.D	12/23/04	04:06	08:29	(used for QC only; not part of job N86261)
ZZZZZZ	S70815.D	12/23/04	04:36	08:59	(unrelated sample)
ZZZZZZ	S70816.D	12/23/04	05:06	09:29	(unrelated sample)
ZZZZZZ	S70817.D	12/23/04	05:36	09:59	(unrelated sample)
ZZZZZZ	S70818.D	12/23/04	06:06	10:29	(unrelated sample)
N86261-1	S70819.D	12/23/04	06:36	10:59	WELL AY
N86261-2	S70820.D	12/23/04	07:07	11:30	WELL AV

Instrument Performance Check (BFB)

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	VS2588-BFB	Injection Date:	12/23/04
Lab File ID:	S70844.D	Injection Time:	21:49
Instrument ID:	GCMSS		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2823	16.8		Pass
75	30.0 - 60.0% of mass 95	7610	45.2		Pass
95	Base peak, 100% relative abundance	16852	100.0		Pass
96	5.0 - 9.0% of mass 95	1141	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	16207	96.2		Pass
175	5.0 - 9.0% of mass 174	1147	6.8	(7.1) [a]	Pass
176	95.0 - 101.0% of mass 174	15861	94.1	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	1018	6.0	(6.4) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VS2588-CC2585	S70845.D	12/23/04	22:19	00:30	Continuing cal 50
VS2588-MB1	S70847.D	12/23/04	23:19	01:30	Method Blank
VS2588-BS	S70848.D	12/23/04	23:49	02:00	Blank Spike
N86426-16MS	S70849.D	12/24/04	00:20	02:31	Matrix Spike
N86426-16MSD	S70850.D	12/24/04	00:50	03:01	Matrix Spike Duplicate
N86426-16	S70852.D	12/24/04	01:50	04:01	(used for QC only; not part of job N86261)
N86261-3	S70853.D	12/24/04	02:20	04:31	WELL X
N86261-4	S70854.D	12/24/04	02:50	05:01	FB-2
N86261-5	S70855.D	12/24/04	03:20	05:31	TRIP BLANK
N86261-6	S70856.D	12/24/04	03:50	06:01	WELL AX
ZZZZZZ	S70857.D	12/24/04	04:20	06:31	(unrelated sample)
ZZZZZZ	S70858.D	12/24/04	04:50	07:01	(unrelated sample)
ZZZZZZ	S70859.D	12/24/04	05:20	07:31	(unrelated sample)
ZZZZZZ	S70860.D	12/24/04	05:49	08:00	(unrelated sample)
ZZZZZZ	S70861.D	12/24/04	06:19	08:30	(unrelated sample)
ZZZZZZ	S70862.D	12/24/04	06:49	09:00	(unrelated sample)
ZZZZZZ	S70863.D	12/24/04	07:19	09:30	(unrelated sample)
ZZZZZZ	S70864.D	12/24/04	07:49	10:00	(unrelated sample)
ZZZZZZ	S70865.D	12/24/04	08:19	10:30	(unrelated sample)
ZZZZZZ	S70866.D	12/24/04	08:49	11:00	(unrelated sample)
ZZZZZZ	S70867.D	12/24/04	09:19	11:30	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	VS2585-ICC2585	**Injection Date:**	12/22/04
Lab File ID:	S70804.D	**Injection Time:**	23:06
Instrument ID:	GCMSS	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	142231	7.59	257444	9.60	389270	10.47	380451	13.70	240635	16.26
Upper Limit [a]	284462	8.09	514888	10.10	778540	10.97	760902	14.20	481270	16.76
Lower Limit [b]	71116	7.09	128722	9.10	194635	9.97	190226	13.20	120318	15.76
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
VS2585-MB1	146231	7.59	289404	9.60	417767	10.48	400467	13.70	255030	16.25
VS2585-BS	147868	7.59	288868	9.60	421316	10.47	401379	13.70	257236	16.26
N86169-2MS	151407	7.59	290286	9.60	426442	10.47	407447	13.70	258599	16.25
N86169-2MSD	140254	7.59	293852	9.60	428565	10.47	411518	13.70	260543	16.25
N86169-2	147506	7.59	295324	9.59	424180	10.48	409233	13.70	257996	16.26
N86169-2	146803	7.59	289224	9.60	415806	10.48	401922	13.70	253438	16.25
ZZZZZZ	125035	7.59	283538	9.60	409689	10.48	394160	13.70	251281	16.26
ZZZZZZ	131835	7.59	280986	9.60	406180	10.48	392546	13.70	246523	16.26
ZZZZZZ	130848	7.59	270971	9.60	395518	10.48	384068	13.70	242839	16.26
ZZZZZZ	125106	7.59	263077	9.60	387494	10.48	373512	13.70	236236	16.26
N86261-1	110965	7.59	254342	9.59	376908	10.48	363663	13.70	227335	16.25
N86261-2	107650	7.59	250030	9.60	371416	10.48	359174	13.70	225266	16.26

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	VS2588-CC2585	**Injection Date:**	12/23/04
Lab File ID:	S70845.D	**Injection Time:**	22:19
Instrument ID:	GCMSS	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	137731	7.59	257340	9.60	382506	10.48	359753	13.70	228607	16.26
Upper Limit [a]	275462	8.09	514680	10.10	765012	10.98	719506	14.20	457214	16.76
Lower Limit [b]	68866	7.09	128670	9.10	191253	9.98	179877	13.20	114304	15.76
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**
VS2588-MB1	131125	7.59	247644	9.60	358779	10.48	342020	13.70	218134	16.25
VS2588-BS	131699	7.59	248149	9.60	372637	10.48	352707	13.70	225729	16.25
N86426-16MS	136033	7.59	255696	9.60	375540	10.48	358609	13.70	227910	16.25
N86426-16MSD	136296	7.59	261044	9.60	383760	10.48	363212	13.70	229267	16.26
N86426-16	133500	7.59	252007	9.60	368707	10.47	351813	13.70	222458	16.25
N86261-3	120415	7.59	244167	9.60	355427	10.48	337546	13.70	215032	16.26
N86261-4	128228	7.59	235560	9.60	347723	10.48	329152	13.70	208765	16.25
N86261-5	123466	7.59	230812	9.60	338799	10.47	324546	13.70	202292	16.25
N86261-6	116999	7.59	223659	9.60	330045	10.48	316585	13.70	199045	16.26
ZZZZZZ	122387	7.59	217805	9.60	323296	10.48	309483	13.70	197850	16.25
ZZZZZZ	109691	7.59	217564	9.60	319471	10.48	308098	13.70	194245	16.26
ZZZZZZ	120296	7.59	214180	9.60	318943	10.48	305573	13.70	192701	16.25
ZZZZZZ	118918	7.59	211713	9.60	316009	10.47	298431	13.70	190263	16.25
ZZZZZZ	106796	7.59	208786	9.60	311868	10.48	300189	13.70	189700	16.25
ZZZZZZ	115458	7.59	207976	9.60	313487	10.48	297167	13.70	187999	16.25
ZZZZZZ	112796	7.59	206573	9.60	310471	10.47	296110	13.70	187184	16.25
ZZZZZZ	104337	7.59	205003	9.60	307457	10.48	293669	13.70	186044	16.25
ZZZZZZ	112795	7.59	206563	9.60	309066	10.48	294663	13.70	188296	16.25
ZZZZZZ	112528	7.59	206622	9.60	310173	10.48	295909	13.70	189108	16.25
ZZZZZZ	113603	7.59	204502	9.60	306543	10.48	294262	13.70	186671	16.26

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
N86261-1	S70819.D	99.0	95.0	98.0	101.0
N86261-2	S70820.D	99.0	97.0	98.0	101.0
N86261-3	S70853.D	97.0	99.0	100.0	100.0
N86261-4	S70854.D	98.0	101.0	100.0	102.0
N86261-5	S70855.D	99.0	103.0	101.0	103.0
N86261-6	S70856.D	100.0	105.0	101.0	101.0
N86169-2MS	S70811.D	96.0	89.0	99.0	98.0
N86169-2MSD	S70812.D	95.0	87.0	99.0	97.0
N86426-16MS	S70849.D	97.0	97.0	101.0	99.0
N86426-16MSD	S70850.D	96.0	96.0	100.0	99.0
VS2585-BS	S70810.D	95.0	89.0	99.0	97.0
VS2585-MB1	S70809.D	95.0	89.0	97.0	98.0
VS2588-BS	S70848.D	98.0	99.0	101.0	99.0
VS2588-MB1	S70847.D	97.0	98.0	101.0	100.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-119%
S2 = 1,2-Dichloroethane-D4	68-129%
S3 = Toluene-D8	83-118%
S4 = 4-Bromofluorobenzene	82-120%

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2585-ICC2585
Lab FileID: S70804.D

Response Factor Report MSS

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration

Calibration Files
1 =S70801.D 100 =S70805.D 50 =S70804.D 20 =S70803.D
200 =S70806.D 5 =S70799.D 2 =S70800.D =

Compound	1	100	50	20	200	5	2	Avg	%RSD
1) I Tert Butyl Alcohol-d9	ISTD								
2) tertiary but		1.133	1.150	1.175	1.105	1.084	1.047	1.116	4.16
3) 1,4-dioxane		0.110	0.106	0.092	0.106	0.082		0.099	12.05
4) I pentafluorobenzene	ISTD								
5) chlorodifluo	0.494	0.484	0.521	0.561	0.454	0.539	0.487	0.506	7.26
6) dichlorodifl		0.427	0.445	0.470	0.390	0.436		0.434	6.71
7) chloromethan	0.497	0.438	0.466	0.499	0.400	0.474	0.447	0.460	7.65
8) vinyl chlori	0.470	0.502	0.534	0.546	0.474	0.515	0.479	0.503	5.99
9) bromomethane	0.395	0.355	0.386	0.411	0.312	0.417	0.390	0.381	9.57
10) chloroethane	0.286	0.261	0.292	0.311	0.221	0.312	0.280	0.280	11.29
11) trichloroflu		0.614	0.640	0.659	0.579	0.582		0.615	5.74
12) ethyl ether		0.278	0.288	0.293	0.270	0.274	0.235	0.273	7.55
13) acrolein	0.078	0.060	0.069	0.081		0.082	0.079	0.075	11.43
14) 1,1-dichloro	0.548	0.483	0.484	0.509	0.470	0.503	0.486	0.497	5.21
15) acetone		0.106	0.122	0.124	0.101	0.120		0.115	9.22
16) allyl chlori	1.370	1.188	1.330	1.377	1.098	1.411	1.359	1.305	8.90
17) acetonitrile		0.034	0.042	0.044	0.032	0.051		0.040	18.62
----- Linear regression ----- Coefficient = 0.9959									
Response Ratio = 0.05590 + 0.03105 *A									
18) iodomethane	0.923	0.957	0.967	0.984	0.947	0.955	0.872	0.943	3.90
19) iso-butyl al		0.006	0.007	0.007	0.006	0.006		0.006#	6.78
20) carbon disul	1.886	1.640	1.711	1.772	1.575	1.793	1.645	1.717	6.22
21) methylene ch	0.555	0.529	0.548	0.570	0.514	0.567	0.489	0.539	5.53
22) methyl aceta		0.294	0.332	0.333	0.274	0.320		0.311	8.23
23) methyl tert	1.504	1.401	1.491	1.535	1.333	1.557	1.462	1.469	5.34
24) trans-1,2-di	0.608	0.516	0.533	0.540	0.500	0.546	0.525	0.538	6.37
25) di-isopropyl	1.471	1.389	1.510	1.577	1.282	1.584	1.462	1.468	7.26
26) 2-butanone		0.057	0.060	0.058	0.054	0.040		0.054	15.43
----- Linear regression ----- Coefficient = 0.9983									
Response Ratio = 0.00244 + 0.05419 *A									
27) 1,1-dichloro	0.856	0.812	0.866	0.900	0.773	0.871	0.826	0.843	5.05
28) chloroprene	0.438	0.510	0.543	0.563	0.489	0.521	0.465	0.504	8.66
29) acrylonitril		0.162	0.180	0.179	0.148	0.181	0.146	0.166	9.73
30) vinyl acetat		0.086	0.090	0.081	0.085	0.047		0.078	22.54
----- Linear regression ----- Coefficient = 0.9993									
Response Ratio = -0.00019 + 0.08516 *A									
31) ethyl tert-b	1.517	1.517	1.614	1.656	1.453	1.653	1.547	1.565	4.95
32) ethyl acetat		0.056	0.062	0.060	0.052	0.045		0.055	12.54
33) 2,2-dichloro	0.703	0.638	0.677	0.722	0.599	0.728	0.662	0.676	6.93
34) cis-1,2-dich	0.609	0.563	0.582	0.599	0.542	0.601	0.574	0.582	4.08
35) propionitril	0.048	0.064	0.071	0.072	0.059	0.068	0.058	0.063	13.68
36) bromochlorom	0.243	0.279	0.284	0.289	0.275	0.276	0.254	0.271	6.17

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2585-ICC2585
Lab FileID: S70804.D

37)	tetrahydrofu		0.123	0.148	0.148	0.114	0.147	0.140	0.137	10.80
38)	chloroform	0.871	0.824	0.874	0.903	0.795	0.873	0.854	0.856	4.19
39)	dibromofluor	0.461	0.440	0.451	0.455	0.436	0.466	0.460	0.453	2.48
40)	1,2-dichloro	0.447	0.398	0.423	0.434	0.380	0.455	0.452	0.427	6.67
41)	freon 113	0.335	0.419	0.412	0.415	0.407	0.397	0.343	0.390	9.08
42)	methacryloni		0.230	0.251	0.257	0.218	0.234		0.238	6.60
43)	1,1,1-trichl	0.772	0.726	0.766	0.797	0.703	0.782	0.735	0.755	4.48
44)	Cyclohexane	0.755	0.732	0.756	0.780	0.701	0.782	0.678	0.741	5.32
45)	I 1,4-difluorobenzene	----------ISTD----------								
46)	Di-isobutyle	0.617	0.649	0.660	0.654	0.638	0.642	0.595	0.636	3.62
47)	epichlorohyd		0.033	0.036	0.035	0.031	0.034	0.026	0.033	11.42
48)	n-butyl alco		0.010	0.011	0.010	0.009	0.009		0.010#	10.55
49)	carbon tetra	0.428	0.443	0.450	0.457	0.437	0.449	0.398	0.437	4.55
50)	1,1-dichloro	0.417	0.409	0.424	0.425	0.392	0.431	0.401	0.414	3.41
51)	hexane	0.302	0.297	0.304	0.309	0.281	0.302	0.287	0.297	3.31
52)	tert amyl al								0.000#	-1.00
53)	benzene	1.378	1.235	1.309	1.348	1.114	1.361	1.302	1.292	7.11
54)	tert-amyl me	1.042	1.005	1.070	1.080	0.920	1.077	1.043	1.034	5.48
55)	heptane	0.108	0.128	0.130	0.135	0.124	0.130	0.117	0.125	7.58
56)	isopropyl ac		0.489	0.533	0.541	0.466	0.543	0.497	0.512	6.26
57)	1,2-dichloro	0.352	0.341	0.364	0.376	0.324	0.376	0.353	0.355	5.30
58)	trichloroeth	0.321	0.342	0.351	0.350	0.338	0.351	0.319	0.339	4.07
59)	2-nitropropa		0.255	0.288	0.306	0.223	0.318	0.276	0.278	12.51
60)	2-chloroethy	0.149	0.184	0.198	0.193	0.170	0.181	0.162	0.177	9.74
61)	methyl metha		0.311	0.323	0.316	0.300	0.299		0.310	3.27
62)	1,2-dichloro	0.310	0.326	0.339	0.344	0.315	0.336	0.322	0.328	3.90
63)	dibromometha	0.169	0.205	0.211	0.215	0.201	0.201	0.191	0.199	7.65
64)	methylcycloh	0.415	0.460	0.462	0.462	0.449	0.440	0.422	0.444	4.34
65)	bromodichlor	0.385	0.435	0.452	0.451	0.426	0.438	0.404	0.427	5.82
66)	cis-1,3-dich	0.504	0.544	0.558	0.565	0.531	0.544	0.515	0.537	4.10
67)	toluene-d8 (	1.139	1.159	1.167	1.156	1.163	1.156	1.149	1.155	0.82
68)	4-methyl-2-p		0.455	0.509	0.527	0.410	0.535	0.489	0.488	9.74
69)	toluene	0.838	0.853	0.870	0.875	0.833	0.835	0.799	0.844	3.06
70)	3-methyl-1-b	0.018	0.018	0.020	0.021	0.016	0.021	0.016	0.018	11.64
71)	trans-1,3-di	0.448	0.474	0.497	0.499	0.464	0.479	0.439	0.471	4.83
72)	ethyl methac	0.319	0.426	0.448	0.439	0.417	0.418	0.363	0.404	11.50
73)	1,1,2-trichl	0.227	0.253	0.263	0.262	0.251	0.256	0.227	0.248	6.11
74)	2-hexanone		0.178	0.182	0.169	0.171	0.105		0.161	19.70

----- Linear regression ----- Coefficient = 0.9990

Response Ratio = 0.00202 + 0.17205 *A

75)	I chlorobenzene-d5	----------ISTD----------								
76)	tetrachloroe	0.308	0.327	0.328	0.327	0.332	0.312	0.288	0.317	4.99
77)	1,3-dichloro	0.472	0.485	0.513	0.527	0.468	0.510	0.488	0.495	4.51
78)	butyl acetat		0.209	0.230	0.234	0.195	0.229	0.184	0.213	9.68
79)	dibromochlor	0.342	0.390	0.393	0.388	0.391	0.368	0.329	0.372	7.05
80)	1,2-dibromoe	0.277	0.331	0.342	0.335	0.328	0.324	0.293	0.319	7.49
81)	chlorobenzen	1.004	1.002	1.016	1.033	0.986	1.006	0.968	1.002	2.06
82)	1,1,1,2-tetr	0.370	0.389	0.394	0.393	0.390	0.380	0.342	0.380	4.96
83)	ethylbenzene	1.524	1.556	1.600	1.626	1.506	1.583	1.483	1.554	3.36
84)	m,p-xylene	0.640	0.652	0.669	0.685	0.638	0.664	0.618	0.652	3.43
85)	o-xylene	0.686	0.684	0.698	0.714	0.672	0.678	0.639	0.682	3.43
86)	styrene	1.028	1.109	1.128	1.132	1.088	1.068	0.976	1.075	5.27
87)	bromoform	0.231	0.300	0.299	0.286	0.307	0.267	0.235	0.275	11.39
88)	I 1,4-dichlorobenzene-d	----------ISTD----------								
89)	isopropylben	2.301	2.320	2.373	2.388	2.262	2.276	2.179	2.300	3.08
90)	4-bromofluor	0.779	0.742	0.757	0.759	0.736	0.769	0.773	0.759	2.09

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2585-ICC2585
Lab FileID: S70804.D

91)	cyclohexanon								0.000#	-1.00
92)	bromobenzene	0.766	0.774	0.788	0.780	0.770	0.761	0.712	0.765	3.26
93)	1,1,2,2-tetr	0.710	0.700	0.741	0.732	0.678	0.724	0.707	0.713	3.00
94)	trans-1,4-di	0.141	0.164	0.175	0.190	0.166	0.184	0.154	0.168	10.25
95)	1,2,3-trichl		0.194	0.203	0.203	0.186	0.205	0.189	0.197	4.20
96)	n-propylbenz	2.820	2.799	2.923	2.981	2.663	2.908	2.764	2.837	3.82
97)	2-chlorotolu	2.124	2.041	2.099	2.125	1.988	2.094	2.065	2.077	2.38
98)	4-chlorotolu	1.968	1.895	1.947	1.989	1.852	1.955	1.895	1.928	2.54
99)	1,3,5-trimet	2.131	2.141	2.170	2.193	2.081	2.098	1.984	2.114	3.26
100)	tert-butylbe	1.137	1.127	1.148	1.180	1.100	1.121	1.039	1.122	3.93
101)	pentachloroe	0.440	0.530	0.530	0.519	0.528	0.478	0.456	0.497	7.77
102)	1,2,4-trimet	2.248	2.279	2.311	2.343	2.222	2.218	2.123	2.249	3.21
103)	sec-butylben	2.518	2.586	2.629	2.615	2.504	2.471	2.361	2.526	3.72
104)	1,3-dichloro	1.529	1.504	1.517	1.525	1.486	1.503	1.399	1.495	2.98
105)	p-isopropylt	2.137	2.268	2.261	2.272	2.195	2.158	2.023	2.188	4.15
106)	1,4-dichloro	1.620	1.578	1.586	1.610	1.537	1.557	1.528	1.574	2.21
107)	vinyltoluene								0.000#	-1.00
108)	1,2-dichloro	1.488	1.520	1.535	1.537	1.457	1.505	1.422	1.495	2.85
109)	n-butylbenze	1.836	1.868	1.889	1.919	1.786	1.834	1.710	1.835	3.80
110)	1,2-dibromo-		0.128	0.137	0.138	0.117	0.136	0.125	0.130	6.36
111)	1,2,4-trichl	0.897	0.926	0.953	0.958	0.886	0.900	0.841	0.909	4.48
112)	hexachlorobu		0.361	0.375	0.388	0.349	0.383	0.379	0.373	3.91
113)	naphthalene	2.123	2.197	2.288	2.307	2.026	2.233	2.060	2.176	5.03
114)	1,2,3-trichl	0.740	0.770	0.801	0.824	0.738	0.798	0.730	0.771	4.79
115)	hexachloroet		0.450	0.438	0.420	0.453	0.378	0.337	0.413	11.19

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

MS2585.M Thu Dec 23 16:50:49 2004 RPT1

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2588-CC2585
Lab FileID: S70845.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\S70845.D
Acq On : 23 Dec 2004 10:19 pm
Sample : cc2585-50
Misc : MS8620,VS2588,5,,,,1
MS Integration Params: LSCINT.P

Vial: 100
Operator: mei
Inst : MSS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	97	0.00	7.59
2	M	tertiary butyl alcohol	1.116	1.150	-3.0	97	0.00	7.70
3	M	1,4-dioxane	0.099	0.096	3.0	88	0.00	11.18
4	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	9.60
5	M	chlorodifluoromethane	0.506	0.558	-10.3	107	0.00	4.41
6	M	dichlorodifluoromethane	0.434	0.432	0.5	97	0.00	4.40
7	M	chloromethane	0.460	0.475	-3.3	102	0.00	4.76
8	M	vinyl chloride	0.503	0.536	-6.6	100	0.00	5.01
9	M	bromomethane	0.381	0.397	-4.2	103	0.00	5.67
10	M	chloroethane	0.280	0.295	-5.4	101	0.00	5.83
11	M	trichlorofluoromethane	0.615	0.632	-2.8	99	0.00	6.26
12	M	ethyl ether	0.273	0.270	1.1	94	0.00	6.61
13	M	acrolein	0.075	0.054	28.0#	78	0.00	6.88
14	M	1,1-dichloroethene	0.497	0.466	6.2	96	0.00	7.02
15	M	acetone	0.115	0.113	1.7	93	0.00	7.08
16	M	allyl chloride	1.305	1.268	2.8	95	0.00	7.49
			True	Calc.	% Drift			
17	M	acetonitrile	500.000	511.327	-2.3	90	0.00	7.48
			AvgRF	CCRF	% Dev			
18	M	iodomethane	0.943	0.955	-1.3	99	0.00	7.30
19	M	iso-butyl alcohol	0.006	0.007#	-16.7	99	0.00	9.90
20	M	carbon disulfide	1.717	1.602	6.7	94	0.00	7.43
21	M	methylene chloride	0.539	0.523	3.0	95	0.00	7.67
22	M	methyl acetate	0.311	0.318	-2.3	96	0.00	7.46
23	M	methyl tert butyl ether	1.469	1.417	3.5	95	0.00	7.93
24	M	trans-1,2-dichloroethene	0.538	0.513	4.6	96	0.00	7.99
25	M	di-isopropyl ether	1.468	1.468	0.0	97	0.00	8.43
			True	Calc.	% Drift			
26	M	2-butanone	50.000	48.108	3.8	91	0.00	9.14
			AvgRF	CCRF	% Dev			
27	M	1,1-dichloroethane	0.843	0.845	-0.2	97	0.00	8.51
28	M	chloroprene	0.504	0.536	-6.3	99	0.00	8.60
29	M	acrylonitrile	0.166	0.166	0.0	92	0.00	7.97
			True	Calc.	% Drift			
30	M	vinyl acetate	50.000	46.715	6.6	88	0.00	8.46

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2588-CC2585
Lab FileID: S70845.D

			AvgRF	CCRF	% Dev			
31	M	ethyl tert-butyl ether	1.565	1.570	-0.3	97	0.00	8.85
32	M	ethyl acetate	0.055	0.058	-5.5	93	0.00	9.12
33	M	2,2-dichloropropane	0.676	0.675	0.1	100	0.00	9.18
34	M	cis-1,2-dichloroethene	0.582	0.555	4.6	95	0.00	9.18
35	M	propionitrile	0.063	0.065	-3.2	91	0.00	9.25
36	M	bromochloromethane	0.271	0.274	-1.1	96	0.00	9.47
37	M	tetrahydrofuran	0.137	0.128	6.6	86	0.00	9.50
38	M	chloroform	0.856	0.816	4.7	93	0.00	9.50
39	S	dibromofluoromethane (s)	0.453	0.444	2.0	98	0.00	9.69
40	S	1,2-dichloroethane-d4 (s)	0.427	0.413	3.3	98	0.00	10.09
41	M	freon 113	0.390	0.438	-12.3	106	0.00	6.97
42	M	methacrylonitrile	0.238	0.232	2.5	93	0.00	9.41
43	M	1,1,1-trichloroethane	0.755	0.731	3.2	95	0.00	9.74
44	M	Cyclohexane	0.741	0.758	-2.3	100	0.00	9.81
45	I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00	10.48
46	M	Di-isobutylene	0.636	0.663	-4.2	99	0.00	10.66
47	M	epichlorohydrin	0.033	0.033	0.0	91	0.00	11.72
48	M	n-butyl alcohol	0.010	0.010	0.0	89	0.00	10.57
49	M	carbon tetrachloride	0.437	0.442	-1.1	97	0.00	9.93
50	M	1,1-dichloropropene	0.414	0.424	-2.4	98	0.00	9.91
51	M	hexane	0.297	0.317	-6.7	103	0.00	8.23
52	M	tert amyl alcohol	0.000	0.000#	0.0	93	0.00	10.02
53	M	benzene	1.292	1.270	1.7	95	0.00	10.16
54	M	tert-amyl methyl ether	1.034	1.037	-0.3	95	0.00	10.14
55	M	heptane	0.125	0.134	-7.2	101	0.00	10.25
56	M	isopropyl acetate	0.512	0.515	-0.6	95	0.00	10.02
57	M	1,2-dichloroethane	0.355	0.359	-1.1	97	0.00	10.18
58	M	trichloroethene	0.339	0.336	0.9	94	0.00	10.82
59	M	2-nitropropane	0.278	0.278	0.0	95	0.00	11.88
60	M	2-chloroethyl vinyl ether	0.177	0.188	-6.2	94	0.00	11.56
61	M	methyl methacrylate	0.310	0.305	1.6	93	0.00	11.04
62	M	1,2-dichloropropane	0.328	0.330	-0.6	96	0.00	11.08
63	M	dibromomethane	0.199	0.199	0.0	92	0.00	11.25
64	M	methylcyclohexane	0.444	0.473	-6.5	101	0.00	11.02
65	M	bromodichloromethane	0.427	0.423	0.9	92	0.00	11.36
66	M	cis-1,3-dichloropropene	0.537	0.540	-0.6	95	0.00	11.80
67	S	toluene-d8 (s)	1.155	1.152	0.3	97	0.00	12.09
68	M	4-methyl-2-pentanone	0.488	0.477	2.3	92	0.00	11.88
69	M	toluene	0.844	0.822	2.6	93	0.00	12.17
70	M	3-methyl-1-butanol	0.018	0.018	0.0	90	0.00	11.88
71	M	trans-1,3-dichloropropene	0.471	0.472	-0.2	93	0.00	12.37
72	M	ethyl methacrylate	0.404	0.410	-1.5	90	0.00	12.32
73	M	1,1,2-trichloroethane	0.248	0.244	1.6	91	0.00	12.60

			True	Calc.	% Drift			
74	M	2-hexanone	50.000	49.419	1.2	93	0.00	12.76

			AvgRF	CCRF	% Dev			
75	I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	13.70
76	M	tetrachloroethene	0.317	0.323	-1.9	93	0.00	12.78
77	M	1,3-dichloropropane	0.495	0.503	-1.6	93	0.00	12.80
78	M	butyl acetate	0.213	0.223	-4.7	92	0.00	12.81
79	M	dibromochloromethane	0.372	0.372	0.0	89	0.00	13.09
80	M	1,2-dibromoethane	0.319	0.322	-0.9	89	0.00	13.26
81	M	chlorobenzene	1.002	1.031	-2.9	96	0.00	13.74
82	M	1,1,1,2-tetrachloroethane	0.380	0.395	-3.9	95	0.00	13.80
83	M	ethylbenzene	1.554	1.578	-1.5	93	0.00	13.77

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: VS2588-CC2585
Lab FileID: S70845.D

84	M	m,p-xylene	0.652	0.654	-0.3	92	0.00	13.89
85	M	o-xylene	0.682	0.684	-0.3	93	0.00	14.35
86	M	styrene	1.075	1.089	-1.3	91	0.00	14.36
87	M	bromoform	0.275	0.274	0.4	86	0.00	14.69
88	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	16.26
89	M	isopropylbenzene	2.300	2.334	-1.5	93	0.00	14.71
90	S	4-bromofluorobenzene (s)	0.759	0.751	1.1	94	0.00	14.96
91	M	cyclohexanone	0.000	0.037	0.0	0#	0.00	14.95
92	M	bromobenzene	0.765	0.757	1.0	91	0.00	15.19
93	M	1,1,2,2-tetrachloroethane	0.713	0.695	2.5	89	0.00	15.07
94	M	trans-1,4-dichloro-2-bute	0.168	0.172	-2.4	94	0.00	15.12
95	M	1,2,3-trichloropropane	0.197	0.189	4.1	89	0.00	15.16
96	M	n-propylbenzene	2.837	2.846	-0.3	93	0.00	15.17
97	M	2-chlorotoluene	2.077	2.051	1.3	93	0.00	15.35
98	M	4-chlorotoluene	1.928	1.884	2.3	92	0.00	15.46
99	M	1,3,5-trimethylbenzene	2.114	2.132	-0.9	93	0.00	15.32
100	M	tert-butylbenzene	1.122	1.145	-2.0	95	0.00	15.72
101	M	pentachloroethane	0.497	0.512	-3.0	92	0.00	15.84
102	M	1,2,4-trimethylbenzene	2.249	2.244	0.2	92	0.00	15.77
103	M	sec-butylbenzene	2.526	2.536	-0.4	92	0.00	15.95
104	M	1,3-dichlorobenzene	1.495	1.455	2.7	91	0.00	16.19
105	M	p-isopropyltoluene	2.188	2.225	-1.7	93	0.00	16.08
106	M	1,4-dichlorobenzene	1.574	1.515	3.7	91	0.00	16.28
107	M	vinyltoluene	0.000	0.168	0.0	0#	0.00	16.26
108	M	1,2-dichlorobenzene	1.495	1.470	1.7	91	0.00	16.73
109	M	n-butylbenzene	1.835	1.839	-0.2	92	0.00	16.54
110	M	1,2-dibromo-3-chloropropa	0.130	0.132	-1.5	92	0.00	17.59
111	M	1,2,4-trichlorobenzene	0.909	0.937	-3.1	93	0.00	18.56
112	M	hexachlorobutadiene	0.373	0.362	2.9	92	0.00	18.67
113	M	naphthalene	2.176	2.147	1.3	89	0.00	18.92
114	M	1,2,3-trichlorobenzene	0.771	0.788	-2.2	93	0.00	19.22
115	M	hexachloroethane	0.413	0.433	-4.8	94	0.00	17.00

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

S70804.D MS2585.M Mon Dec 27 10:56:08 2004 RPT1

Data File : C:\HPCHEM\1\DATA\S70819.D Vial: 100
Acq On : 23 Dec 2004 6:36 am Operator: mei
Sample : n86261-1 Inst : MSS
Misc : MS8583,VS2585,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
uant Time: Dec 23 16:57 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	110965	500.00	ug/L	0.00
4) pentafluorobenzene	9.59	168	254342	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	376908	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	363663	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.25	152	227335	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	113715	49.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 98.78%			
40) 1,2-dichloroethane-d4 (s)	10.10	65	103606	47.71	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 95.42%			
67) toluene-d8 (s)	12.09	98	427205	49.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.10%			
90) 4-bromofluorobenzene (s)	14.96	95	174136	50.45	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.90%			
Target Compounds						Qvalue
76) tetrachloroethene	12.78	164	852	0.37	ug/L	88

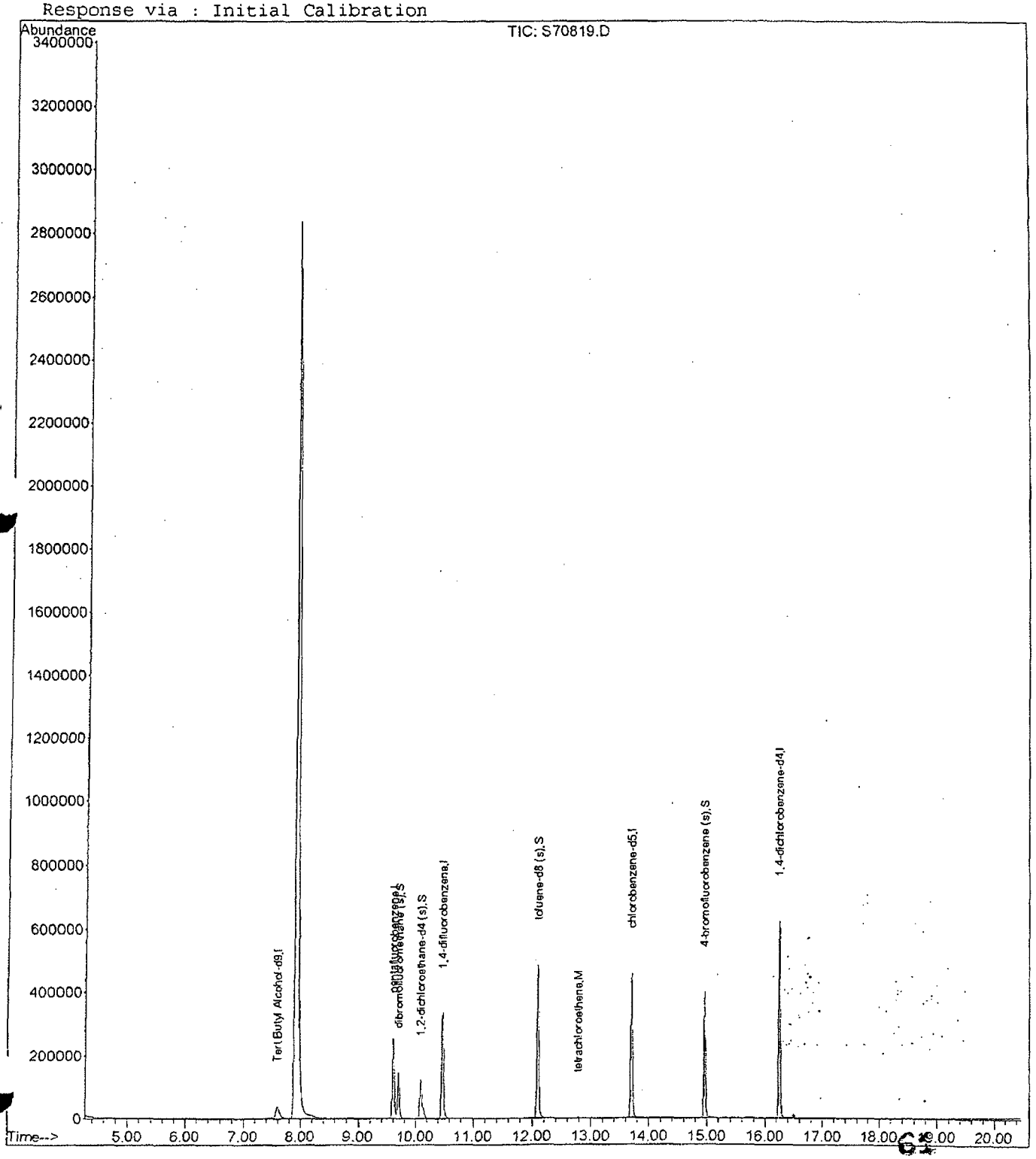
(#) = qualifier out of range (m) = manual integration

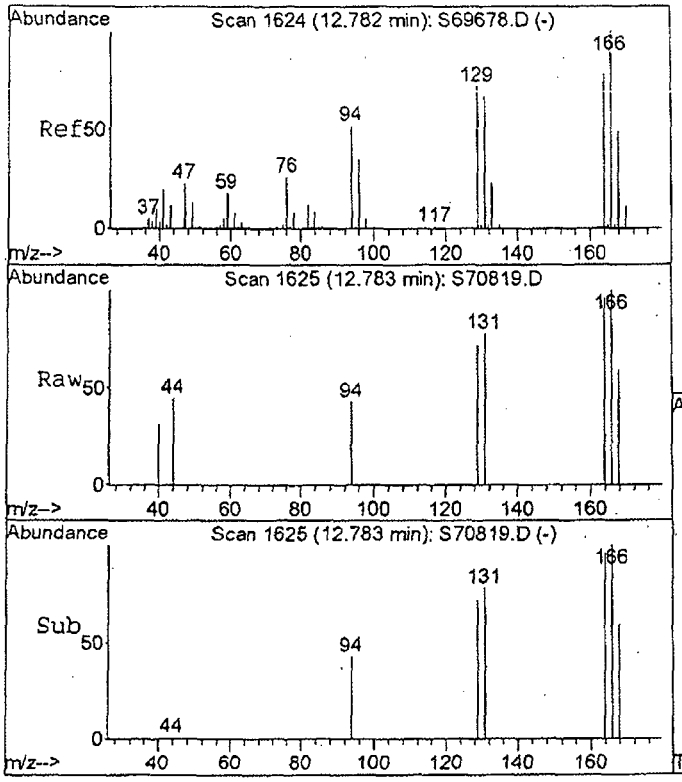
Data File : C:\HPCHEM\1\DATA\S70819.D
Acq On : 23 Dec 2004 6:36 am
Sample : n86261-1
Misc : MS8583,VS2585,5,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 23 16:57 2004

Vial: 100
Operator: mei
Inst : MSS
Multiplr: 1.00

Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration

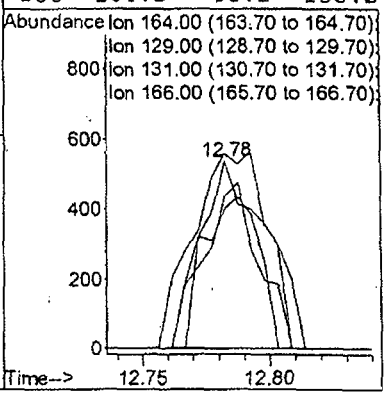




#76
tetrachloroethene
Concen: 0.37 ug/L
RT: 12.78 min Scan# 1625
Delta R.T. 0.00 min
Lab File: S70819.D
Acq: 23 Dec 2004 6:36 am

Tgt Ion:164 Resp: 852

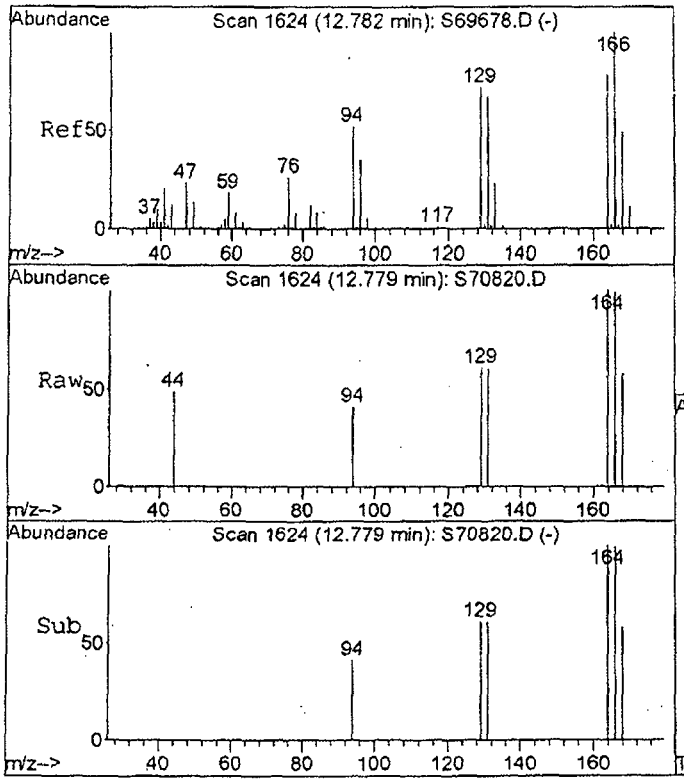
Ion	Ratio	Lower	Upper
164	100		
129	74.8	55.6	115.6
131	81.2	51.4	111.4
166	104.5	98.2	158.2



Data File : C:\HPCHEM\1\DATA\S70820.D Vial: 100
Acq On : 23 Dec 2004 7:07 am Operator: mei
Sample : n86261-2 Inst : MSS
Misc : MS8583,VS2585,5,,,,1 Multiplr: 1.00
[illegible] Integration Params: LSCINT.P
ant Time: Dec 23 17:00 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

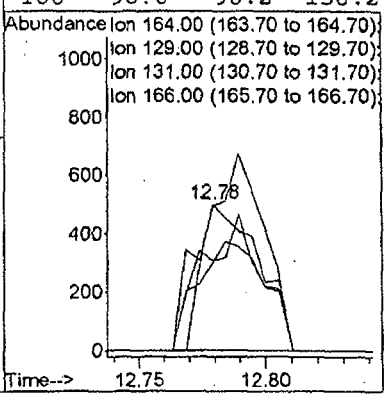
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	107650	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	250030	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	371416	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	359174	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.26	152	225266	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	111853	49.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 98.84%			
40) 1,2-dichloroethane-d4 (s)	10.10	65	103847	48.65	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 97.30%			
67) toluene-d8 (s)	12.09	98	422127	49.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.36%			
90) 4-bromofluorobenzene (s)	14.96	95	172681	50.48	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.96%			
Target Compounds						Qvalue
76) tetrachloroethene	12.78	164	789	0.35	ug/L	75



#76
tetrachloroethene
Concen: 0.35 ug/L
RT: 12.78 min Scan# 1624
Delta R.T. -0.00 min
Lab File: S70820.D
Acq: 23 Dec 2004 7:07 am

Tgt Ion:164 Resp: 789

Ion	Ratio	Lower	Upper
164	100		
129	61.4	55.6	115.6
131	60.8	51.4	111.4
166	98.6	98.2	158.2



Data File : C:\HPCHEM\1\DATA\S70853.D Vial: 100
Acq On : 24 Dec 2004 2:20 am Operator: mei
Sample : n86261-3 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 10:59 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

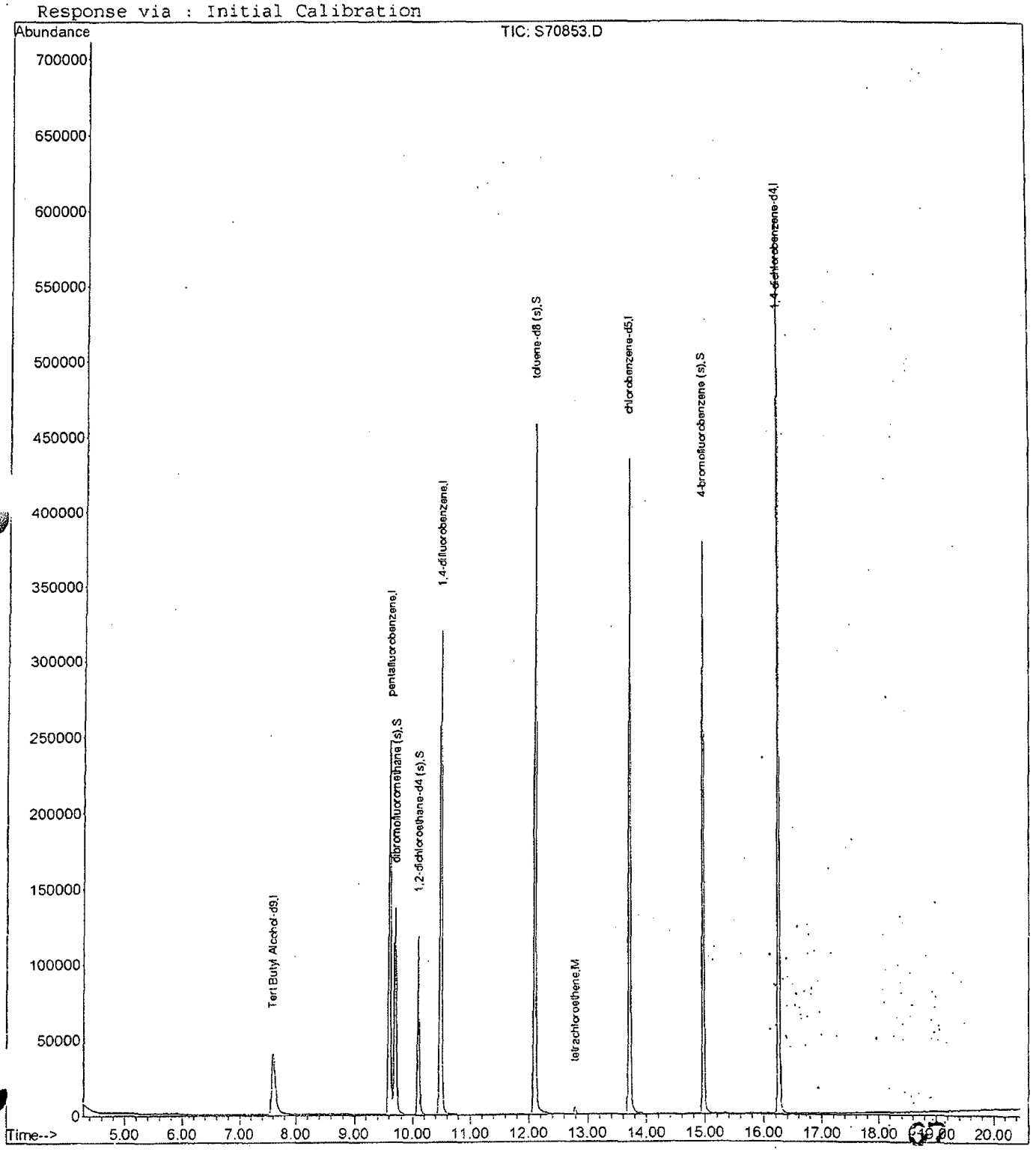
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	120415	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	244167	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	355427	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	337546	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.26	152	215032	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.70	113	107488	48.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 97.26%			
40) 1,2-dichloroethane-d4 (s)	10.09	65	103150	49.48	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 98.96%			
67) toluene-d8 (s)	12.09	98	409506	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
90) 4-bromofluorobenzene (s)	14.96	95	163813	50.17	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.34%			
Target Compounds						Qvalue
76) tetrachloroethene	12.79	164	1871	0.87	ug/L	91

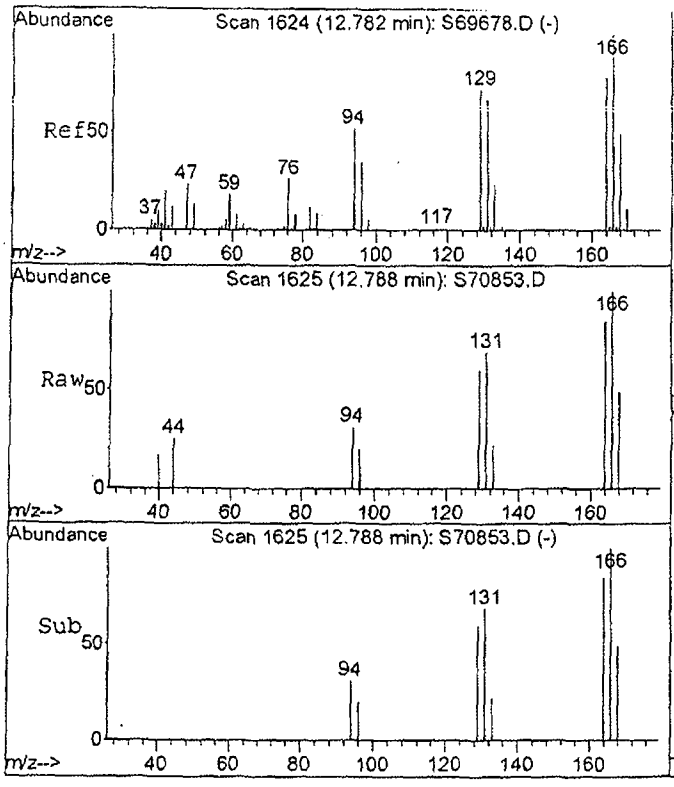
Data File : C:\HPCHEM\1\DATA\S70853.D
Acq On : 24 Dec 2004 2:20 am
Sample : n86261-3
Misc : MS8583,VS2588,5,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 27 10:59 2004

Vial: 100
Operator: mei
Inst : MSS
Multiplr: 1.00

Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration

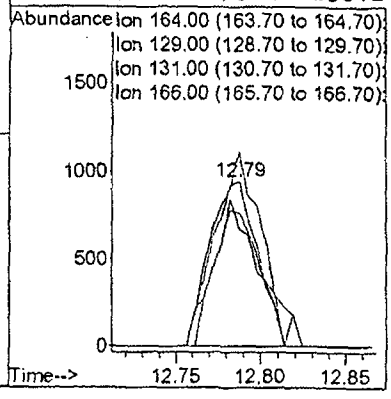




#76
tetrachloroethene
Concen: 0.87 ug/L
RT: 12.79 min Scan# 1625
Delta R.T. 0.01 min
Lab File: S70853.D
Acq: 24 Dec 2004 2:20 am

Tgt Ion:164 Resp: 1871

Ion	Ratio	Lower	Upper
164	100		
129	71.2	55.6	115.6
131	81.0	51.4	111.4
166	117.9	98.2	158.2



Data File : C:\HPCHEM\1\DATA\S70854.D Vial: 100
Acq On : 24 Dec 2004 2:50 am Operator: mei
Sample : n86261-4 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 11:00 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	128228	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	235560	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	347723	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	329152	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.25	152	208765	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	104434	48.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 97.94%			
40) 1,2-dichloroethane-d4 (s)	10.09	65	101980	50.71	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 101.42%			
67) toluene-d8 (s)	12.10	98	402289	50.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.12%			
90) 4-bromofluorobenzene (s)	14.96	95	161314	50.89	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.78%			

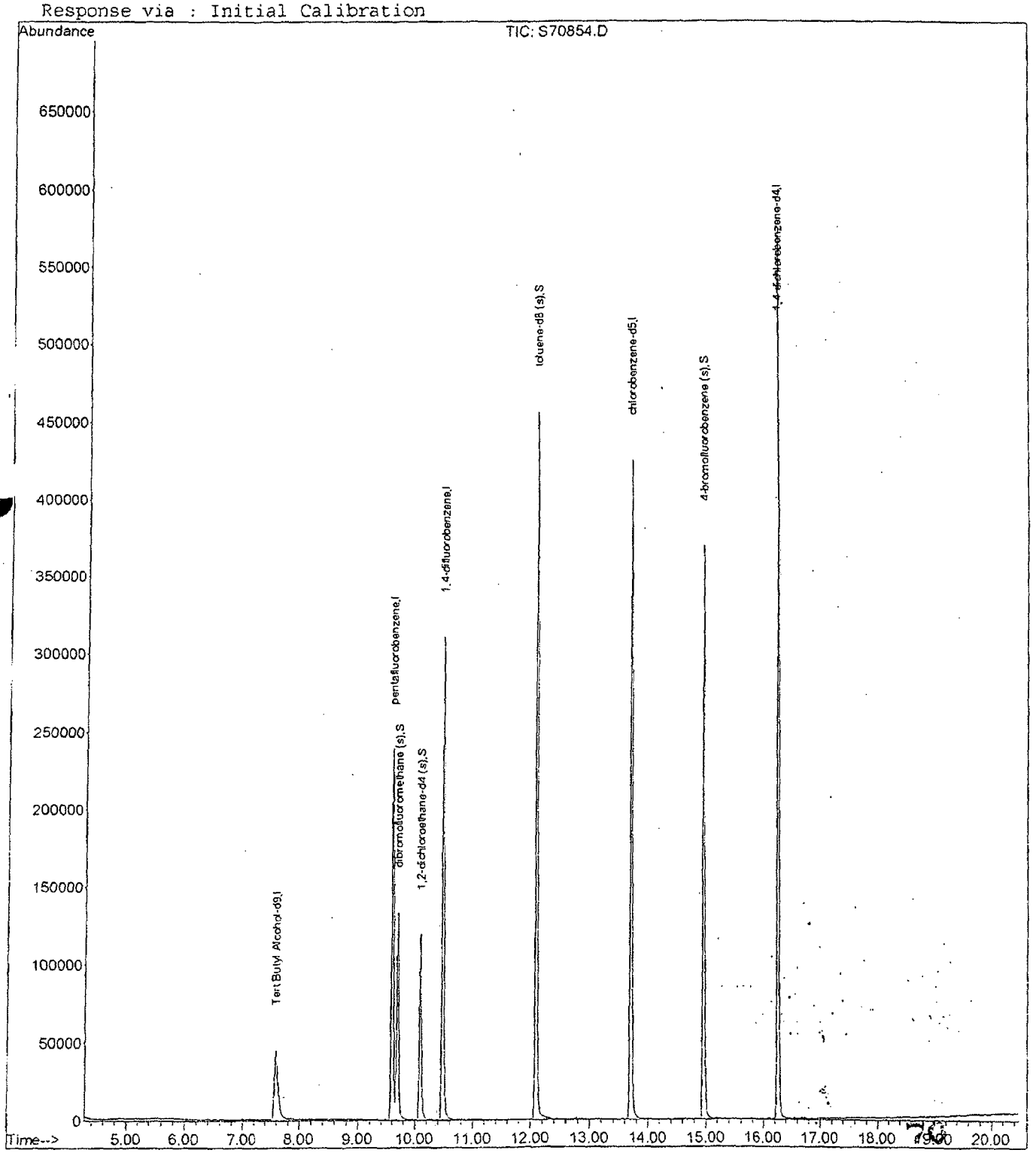
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\S70854.D
Acq On : 24 Dec 2004 2:50 am
Sample : n86261-4
Misc : MS8583,VS2588,5,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 27 11:00 2004

Vial: 100
Operator: mei
Inst : MSS
Multiplr: 1.00
Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\S70855.D Vial: 100
Acq On : 24 Dec 2004 3:20 am Operator: mei
Sample : n86261-5 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 11:00 2004 Quant Results File: MS2585.RES

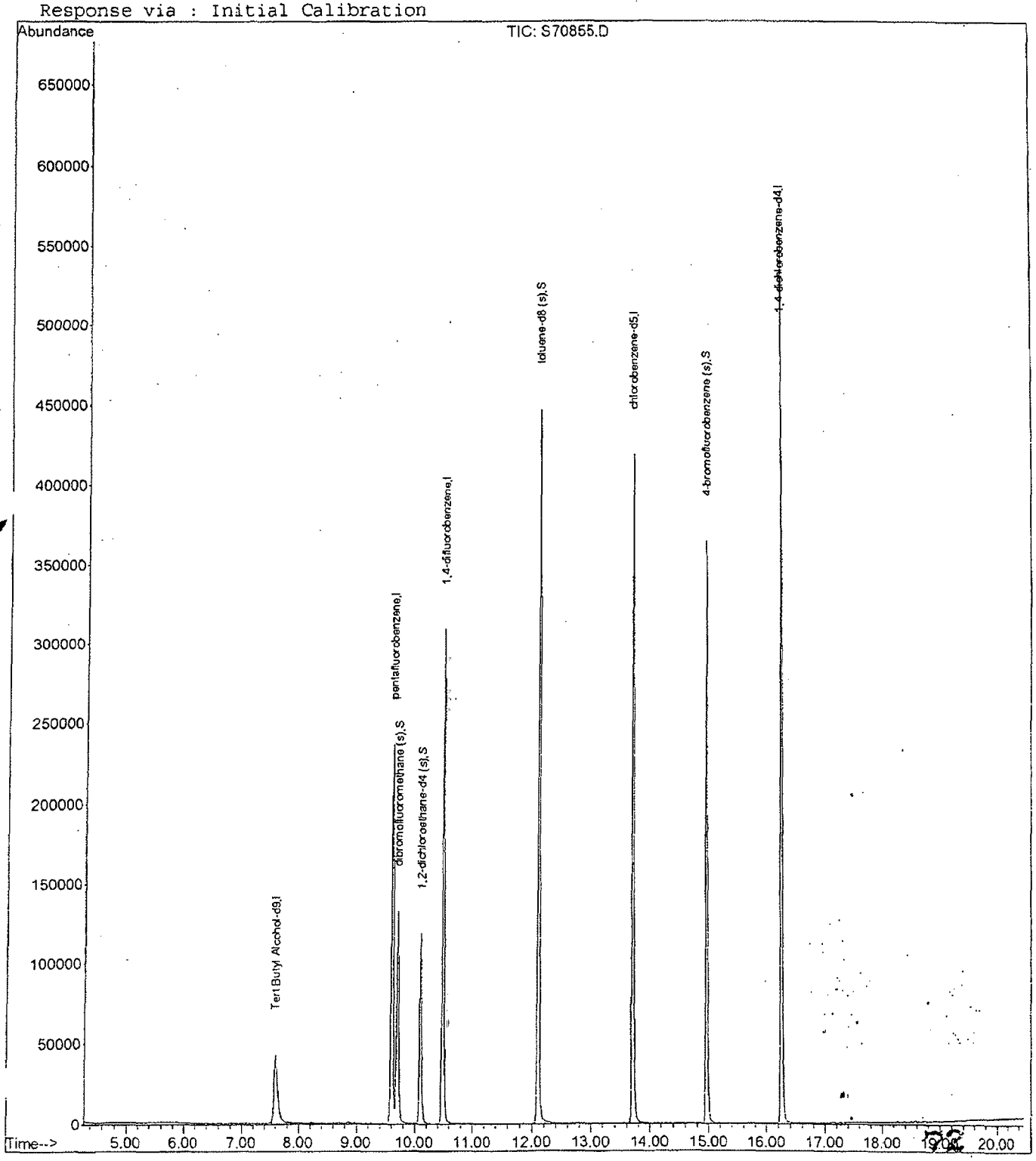
Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	123466	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	230812	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.47	114	338799	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	324546	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.25	152	202292	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	103641	49.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 99.20%			
40) 1,2-dichloroethane-d4 (s)	10.09	65	101432	51.47	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 102.94%			
67) toluene-d8 (s)	12.09	98	395368	50.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%			
90) 4-bromofluorobenzene (s)	14.96	95	157541	51.29	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 102.58%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\S70855.D Vial: 100
Acq On : 24 Dec 2004 3:20 am Operator: mei
Sample : n86261-5 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 11:00 2004 Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\S70856.D Vial: 100
Acq On : 24 Dec 2004 3:50 am Operator: mei
Sample : n86261-6 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 15:54 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

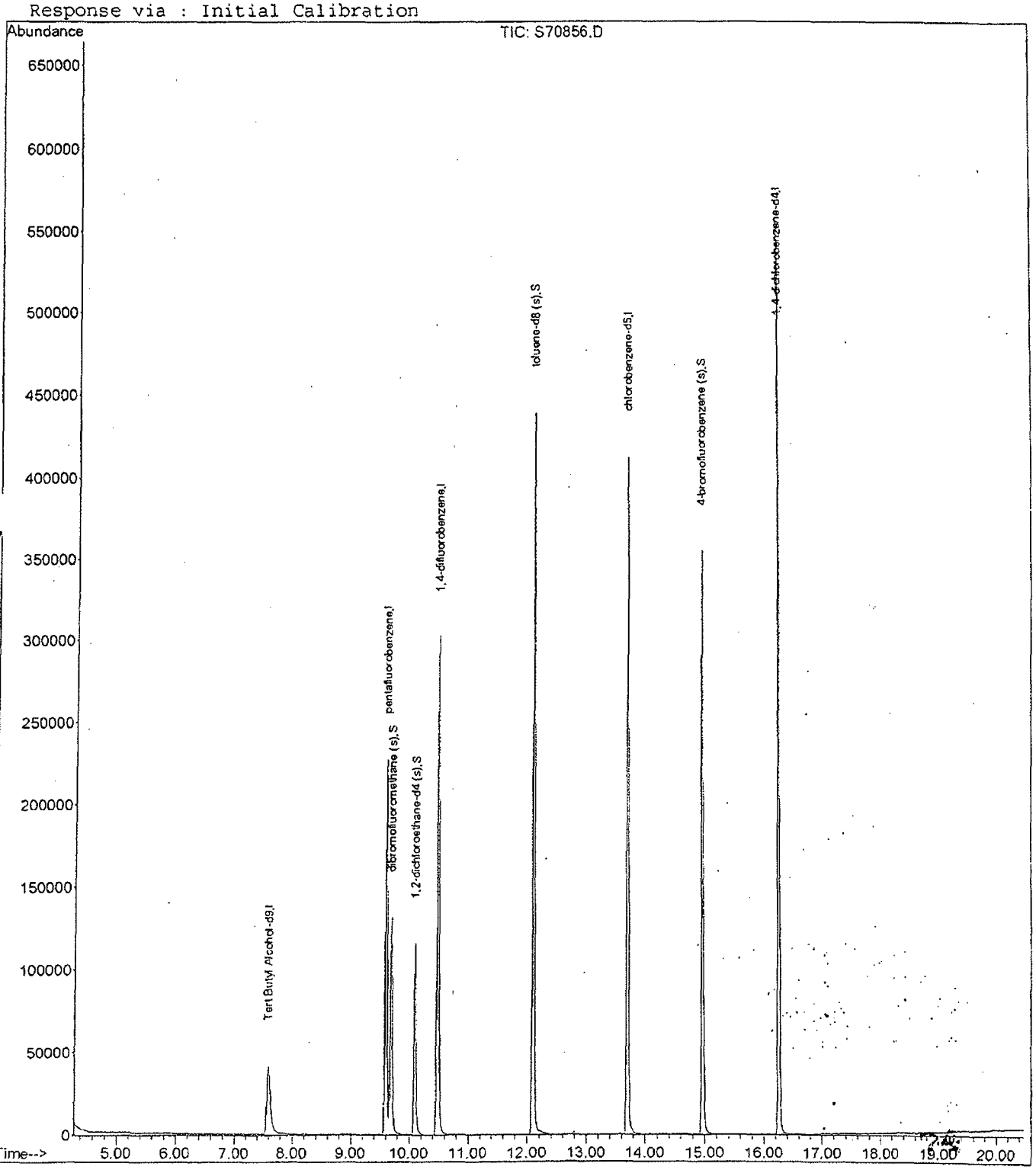
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	116999	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	223659	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	330045	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	316585	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.26	152	199045	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	101228	50.00	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 100.00%			
40) 1,2-dichloroethane-d4 (s)	10.09	65	100430	52.59	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 105.18%			
67) toluene-d8 (s)	12.09	98	385304	50.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.04%			
90) 4-bromofluorobenzene (s)	14.96	95	153186	50.68	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 101.36%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\S70856.D Vial: 100
Acq On : 24 Dec 2004 3:50 am Operator: mei
Sample : n86261-6 Inst : MSS
Misc : MS8583,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 15:54 2004 Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\S70809.D Vial: 100
Acq On : 23 Dec 2004 1:36 am Operator: mei
Sample : mb1 Inst : MSS
Misc : MS8583,VS2585,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 23 16:51 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	146231	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	289404	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	417767	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	400467	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.25	152	255030	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	124133	47.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 94.76%			
40) 1,2-dichloroethane-d4 (s)	10.10	65	110259	44.62	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 89.24%			
67) toluene-d8 (s)	12.09	98	466180	48.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.58%			
90) 4-bromofluorobenzene (s)	14.96	95	190267	49.13	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 98.26%			

Target Compounds Qvalue

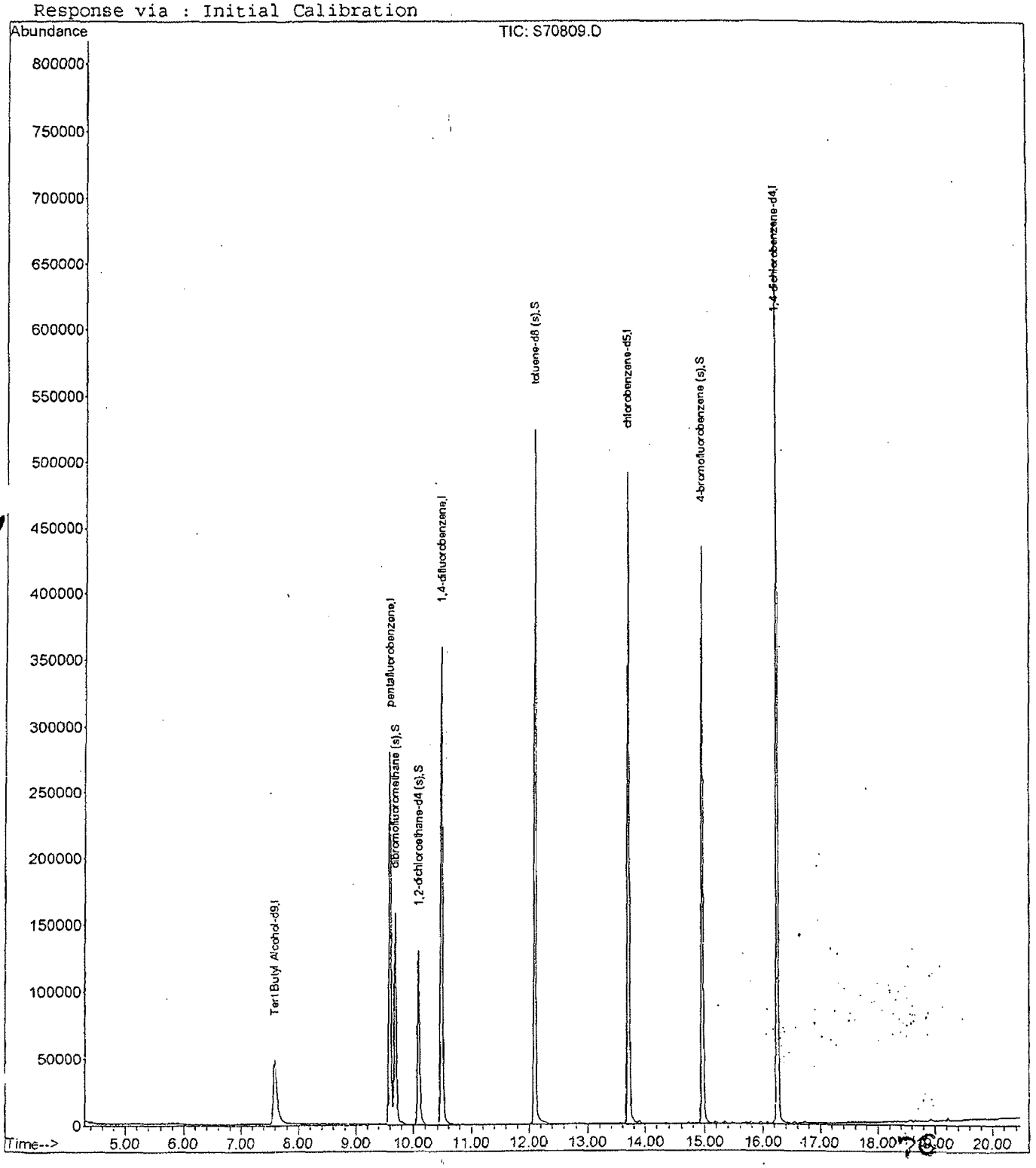
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\S70809.D
Acq On : 23 Dec 2004 1:36 am
Sample : mb1
Misc : MS8583,VS2585,5,,,,1
MS Integration Params: LSCINT.P
Quant Time: Dec 23 16:51 2004

Vial: 100
Operator: mei
Inst : MSS
Multiplr: 1.00

Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\S70809.D Vial: 100
Acq On : 23 Dec 2004 1:36 am Operator: mei
Sample : mb1 Inst : MSS
Misc : MS8583,VS2585,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.04 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.669	71	73	79	rBV2	683	711	0.05%	0.010%
2	4.732	84	85	91	rVB2	730	571	0.04%	0.008%
3	4.962	125	129	131	rBV3	476	530	0.04%	0.008%
4	4.988	131	134	136	rBV2	515	538	0.04%	0.008%
5	5.009	136	138	144	rBV2	700	583	0.04%	0.008%
6	5.072	149	150	156	rBV2	413	722	0.05%	0.010%
7	5.124	157	160	163	rVB2	731	719	0.05%	0.010%
8	5.417	212	216	218	rVB2	741	1064	0.08%	0.015%
9	5.438	218	220	222	rBV2	793	737	0.06%	0.011%
10	5.459	222	224	227	rVV2	497	547	0.04%	0.008%
11	5.532	232	238	245	rBV3	532	1143	0.09%	0.016%
	5.631	252	257	259	rBV	1004	1065	0.08%	0.015%
	5.694	264	269	271	rBV2	479	723	0.05%	0.010%
14	5.987	324	325	332	rVB3	459	661	0.05%	0.009%
15	6.102	343	347	348	rBV	550	605	0.05%	0.009%
16	6.311	384	387	394	rVV2	574	855	0.06%	0.012%
17	6.619	439	446	449	rBV2	352	696	0.05%	0.010%
18	7.032	523	525	532	rVB2	413	776	0.06%	0.011%
19	7.241	562	565	574	rBV3	666	1269	0.09%	0.018%
20	7.430	599	601	608	rVB3	667	805	0.06%	0.011%
21	7.471	608	609	619	rVB3	627	1299	0.10%	0.019%
22	7.592	619	632	675	rBV	47746	230351	17.22%	3.290%
23	7.858	680	683	691	rVV3	690	1642	0.12%	0.023%
24	7.911	691	693	696	rVV2	625	628	0.05%	0.009%
25	7.932	696	697	701	rVB3	661	575	0.04%	0.008%
26	7.973	701	705	708	rBV3	770	1024	0.08%	0.015%
27	8.015	708	713	717	rVB3	653	716	0.05%	0.010%
28	8.041	717	718	725	rBV2	484	627	0.05%	0.009%
29	8.177	739	744	748	rVB2	511	693	0.05%	0.010%
30	8.219	748	752	754	rBV2	1106	970	0.07%	0.014%
31	8.235	754	755	763	rVV3	1034	998	0.07%	0.014%
32	8.313	766	770	781	rBV2	353	1002	0.07%	0.014%
33	8.580	820	821	827	rBV2	450	637	0.05%	0.009%
34	8.690	840	842	850	rVB3	565	669	0.05%	0.010%
35	8.747	850	853	861	rBV2	312	530	0.04%	0.008%
	9.108	920	922	930	rBV2	513	807	0.06%	0.012%
37	9.427	981	983	988	rBV	829	761	0.06%	0.011%
38	9.594	1005	1015	1026	rBV	279861	675015	50.46%	9.642%

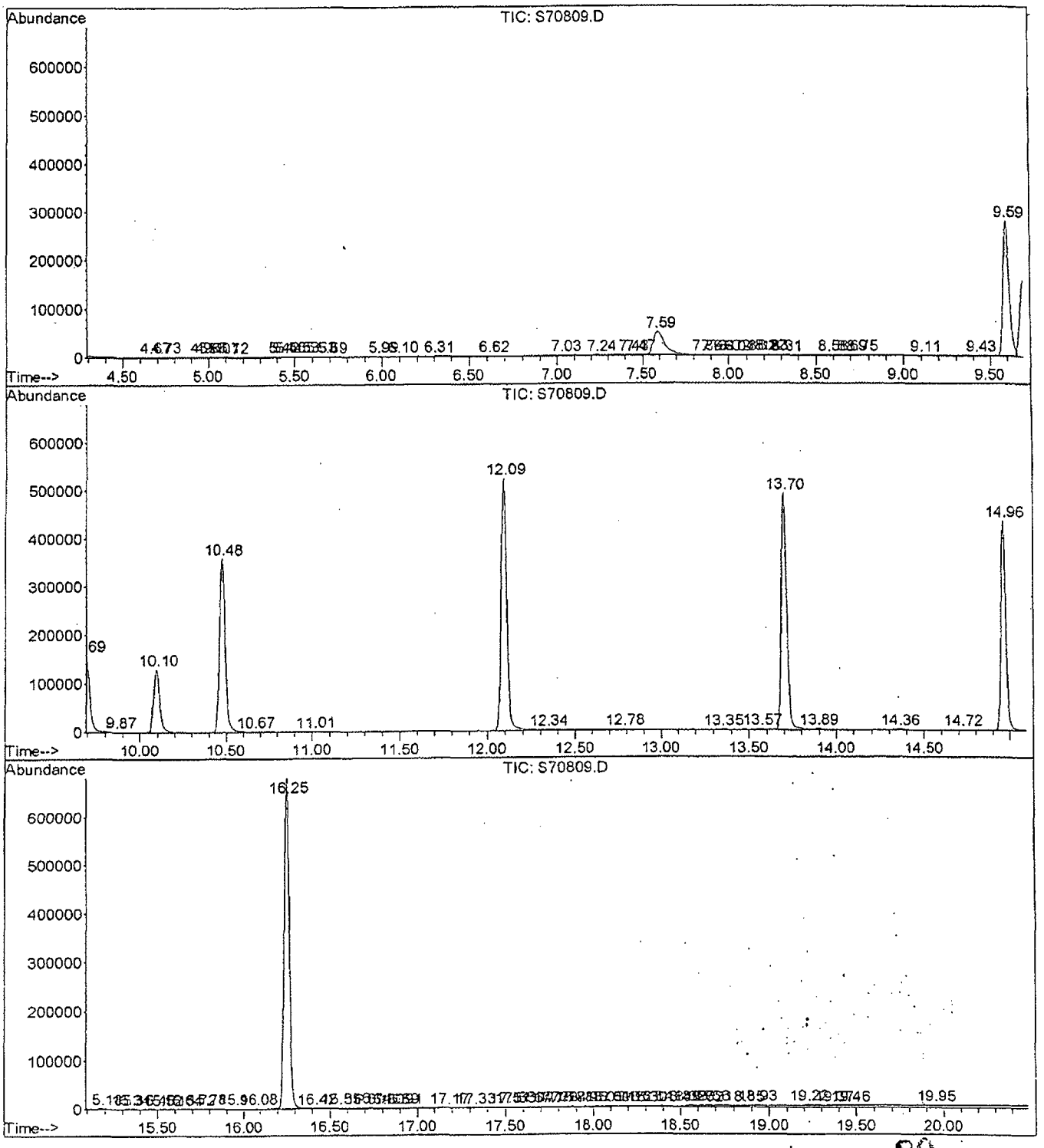
40	9.871	1067	1068	1074	rVB2	388	561	0.04%	0.008%
41	10.096	1098	1111	1137	rVB	129261	311907	23.32%	4.455%
42	10.478	1173	1184	1218	rBV	359088	832827	62.26%	11.896%
43	10.666	1218	1220	1233	rVB2	800	1482	0.11%	0.021%
44	11.011	1284	1286	1295	rVB	462	773	0.06%	0.011%
45	12.093	1474	1493	1532	rBV	523708	1152180	86.14%	16.458%
	12.339	1539	1540	1550	rVB3	798	1106	0.08%	0.016%
47	12.783	1620	1625	1631	rBV3	959	1209	0.09%	0.017%
48	13.348	1730	1733	1743	rVB	439	766	0.06%	0.011%
49	13.567	1768	1775	1782	rBV2	866	1353	0.10%	0.019%
50	13.703	1787	1801	1833	rVV	490743	1043734	78.03%	14.909%
51	13.891	1833	1837	1849	rVV3	2567	5932	0.44%	0.085%
52	14.357	1917	1926	1933	rBV3	1092	2385	0.18%	0.034%
53	14.718	1989	1995	2002	rVV	1069	2166	0.16%	0.031%
54	14.963	2029	2042	2075	rBV	434332	881093	65.87%	12.586%
55	15.178	2075	2083	2092	rVB3	1762	4324	0.32%	0.062%
56	15.340	2107	2114	2116	rBV2	1566	2821	0.21%	0.040%
57	15.355	2116	2117	2130	rVB2	1383	2065	0.15%	0.029%
58	15.481	2134	2141	2148	rBV3	1355	2769	0.21%	0.040%
59	15.523	2148	2149	2157	rVB	498	566	0.04%	0.008%
60	15.638	2167	2171	2176	rBV2	492	671	0.05%	0.010%
61	15.716	2181	2186	2192	rVV	1198	2222	0.17%	0.032%
62	15.779	2192	2198	2205	rVB3	1668	3123	0.23%	0.045%
63	15.957	2226	2232	2243	rVV	1349	2620	0.20%	0.037%
64	16.082	2249	2256	2262	rBV	1352	2276	0.17%	0.033%
65	16.255	2272	2289	2317	rBV	680018	1337601	100.00%	19.107%
66	16.417	2318	2320	2327	rVB	826	1128	0.08%	0.016%
67	16.553	2337	2346	2352	rBV2	1351	2955	0.22%	0.042%
68	16.694	2367	2373	2376	rVV3	652	1125	0.08%	0.016%
	16.736	2376	2381	2392	rVV3	2068	3435	0.26%	0.049%
	16.803	2392	2394	2399	rVB2	468	543	0.04%	0.008%
71	16.887	2402	2410	2413	rBV2	628	1060	0.08%	0.015%
72	16.908	2413	2414	2422	rBV2	432	536	0.04%	0.008%
73	17.175	2462	2465	2477	rBV2	552	1284	0.10%	0.018%
74	17.326	2492	2494	2499	rVV3	522	632	0.05%	0.009%
75	17.515	2529	2530	2535	rBV2	716	738	0.06%	0.011%
76	17.546	2535	2536	2541	rVV2	433	577	0.04%	0.008%
77	17.640	2553	2554	2558	rBV	718	673	0.05%	0.010%
78	17.734	2568	2572	2574	rBV3	647	829	0.06%	0.012%
79	17.760	2574	2577	2579	rVV3	524	540	0.04%	0.008%
80	17.786	2580	2582	2590	rVB3	759	1147	0.09%	0.016%
81	17.839	2590	2592	2597	rBV2	497	752	0.06%	0.011%
82	17.880	2597	2600	2611	rVB3	795	1777	0.13%	0.025%
83	17.954	2611	2614	2624	rBV3	795	2210	0.17%	0.032%
84	18.053	2630	2633	2640	rVB3	553	839	0.06%	0.012%
85	18.095	2640	2641	2644	rBV2	768	581	0.04%	0.008%
86	18.168	2651	2655	2660	rBV3	865	1325	0.10%	0.019%
87	18.267	2670	2674	2676	rVB3	739	757	0.06%	0.011%
88	18.304	2676	2681	2682	rBV3	681	904	0.07%	0.013%
89	18.335	2685	2687	2695	rVB3	1090	1337	0.10%	0.019%
90	18.492	2714	2717	2722	rVB3	822	1258	0.09%	0.018%
91	18.523	2722	2723	2725	rBV2	869	544	0.04%	0.008%
9	18.565	2725	2731	2738	rVV4	1918	4432	0.33%	0.063%
	18.623	2738	2742	2746	rVB4	1082	1121	0.08%	0.016%
	18.659	2746	2749	2756	rBV5	2130	3437	0.26%	0.049%
95	18.853	2783	2786	2794	rBV5	1142	2079	0.16%	0.030%

96	18.928	2794	2800	2807	rV4	2270	5500	0.42%	0.080%
97	19.219	2853	2856	2865	rVB5	2910	5819	0.44%	0.083%
98	19.365	2876	2884	2888	rBV5	935	2430	0.18%	0.035%
99	19.459	2901	2902	2905	rBV2	818	774	0.06%	0.011%
100	19.946	2960	2995	3003	rBV9	1275	10237	0.77%	0.146%

Sum of corrected areas: 7000668

S70809.D MS2585.M Thu Dec 23 16:59:33 2004 RPT1

File : C:\HPCHEM\1\DATA\S70809.D
Operator : mei
Acquired : 23 Dec 2004 1:36 am using AcqMethod MS2585
Instrument : MSS
Sample Name: mb1
Misc Info : MS8583,VS2585,5,,,,1
Vial Number: 100
Quant File :MS2585.RES (RTE Integrator)



S70809.D MS2585.M Thu Dec 23 16:59:35 2004 RPT1

Operator ID: mei Date Acquired: 23 Dec 2004 1:36 am
Data File: C:\HPCHEM\1\DATA\S70809.D
Name: mb1
Misc: MS8583,VS2585,5,,,,1
Method: C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
:le: SW-846 Method 8260
brary Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

S70809.D MS2585.M Thu Dec 23 16:59:35 2004 RPT1

Data File : C:\HPCHEM\1\DATA\S70847.D Vial: 100
Acq On : 23 Dec 2004 11:19 pm Operator: mei
Sample : mbl Inst : MSS
Misc : MS8694,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 10:56 2004 Quant Results File: MS2585.RES

Quant Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration
DataAcq Meth : MS2585

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.59	65	131125	500.00	ug/L	0.00
4) pentafluorobenzene	9.60	168	247644	50.00	ug/L	0.00
45) 1,4-difluorobenzene	10.48	114	358779	50.00	ug/L	0.00
75) chlorobenzene-d5	13.70	117	342020	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	16.25	152	218134	50.00	ug/L	0.00
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.69	113	108583	48.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 119		Recovery = 96.86%			
40) 1,2-dichloroethane-d4 (s)	10.09	65	103695	49.04	ug/L	0.00
Spiked Amount 50.000	Range 68 - 129		Recovery = 98.08%			
67) toluene-d8 (s)	12.09	98	417666	50.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.76%			
90) 4-bromofluorobenzene (s)	14.96	95	166171	50.17	ug/L	0.00
Spiked Amount 50.000	Range 82 - 120		Recovery = 100.34%			

Target Compounds Qvalue

missing MB.

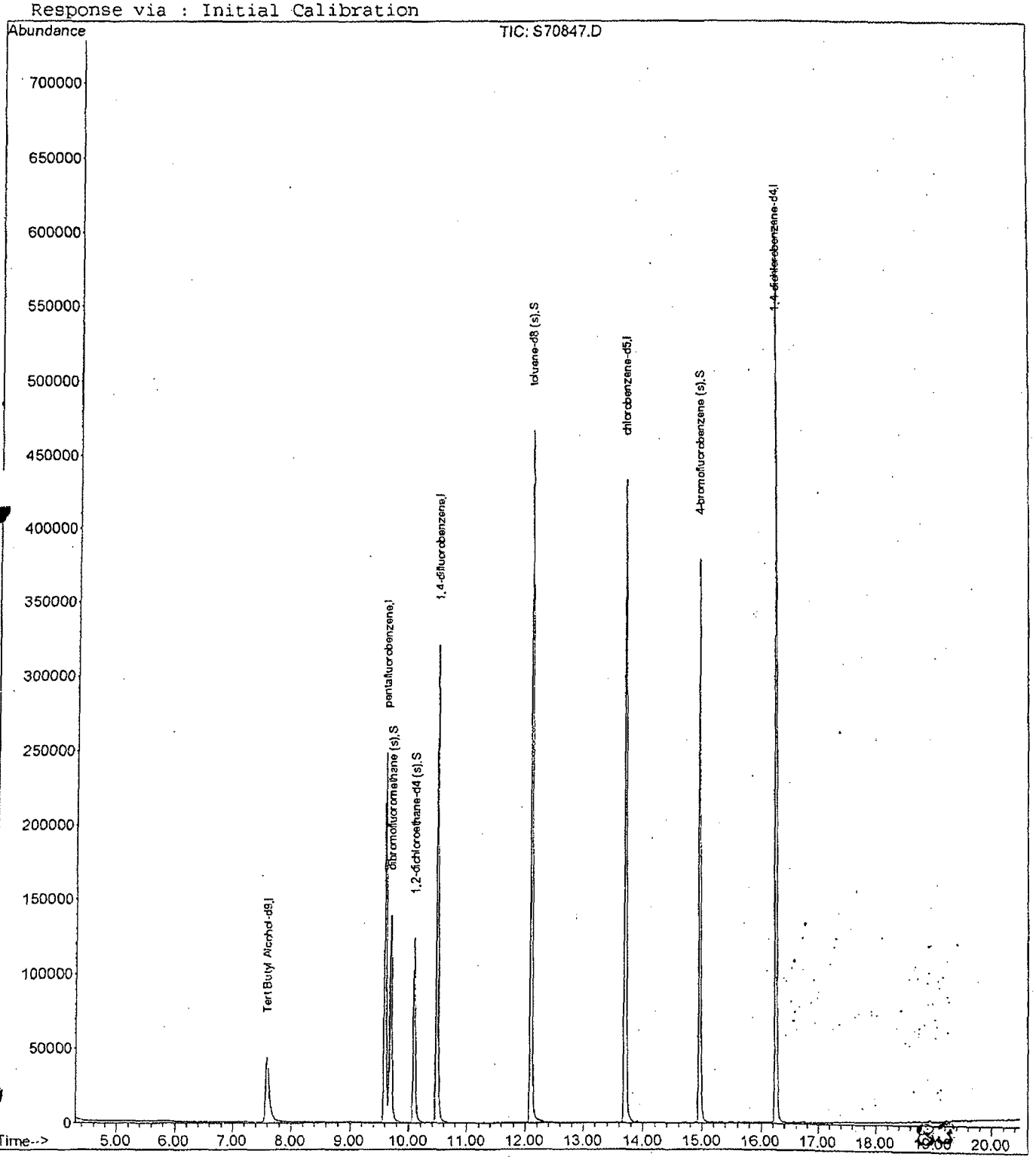
Thanks.

82

(#) = qualifier out of range (m) = manual integration
S70847.D MS2585.M Tue Dec 28 12:53:22 2004 RPT1

Data File : C:\HPCHEM\1\DATA\S70847.D Vial: 100
Acq On : 23 Dec 2004 11:19 pm Operator: mei
Sample : mb1 Inst : MSS
Misc : MS8694,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Dec 27 10:56 2004 Quant Results File: MS2585.RES

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Thu Dec 23 08:35:44 2004
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\S70847.D Vial: 100
Acq On : 23 Dec 2004 11:19 pm Operator: mei
Sample : mb1 Inst : MSS
Misc : MS8694,VS2588,5,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title : SW-846 Method 8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.06 Max Peaks: 100
Stop Thrs : 0.04 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

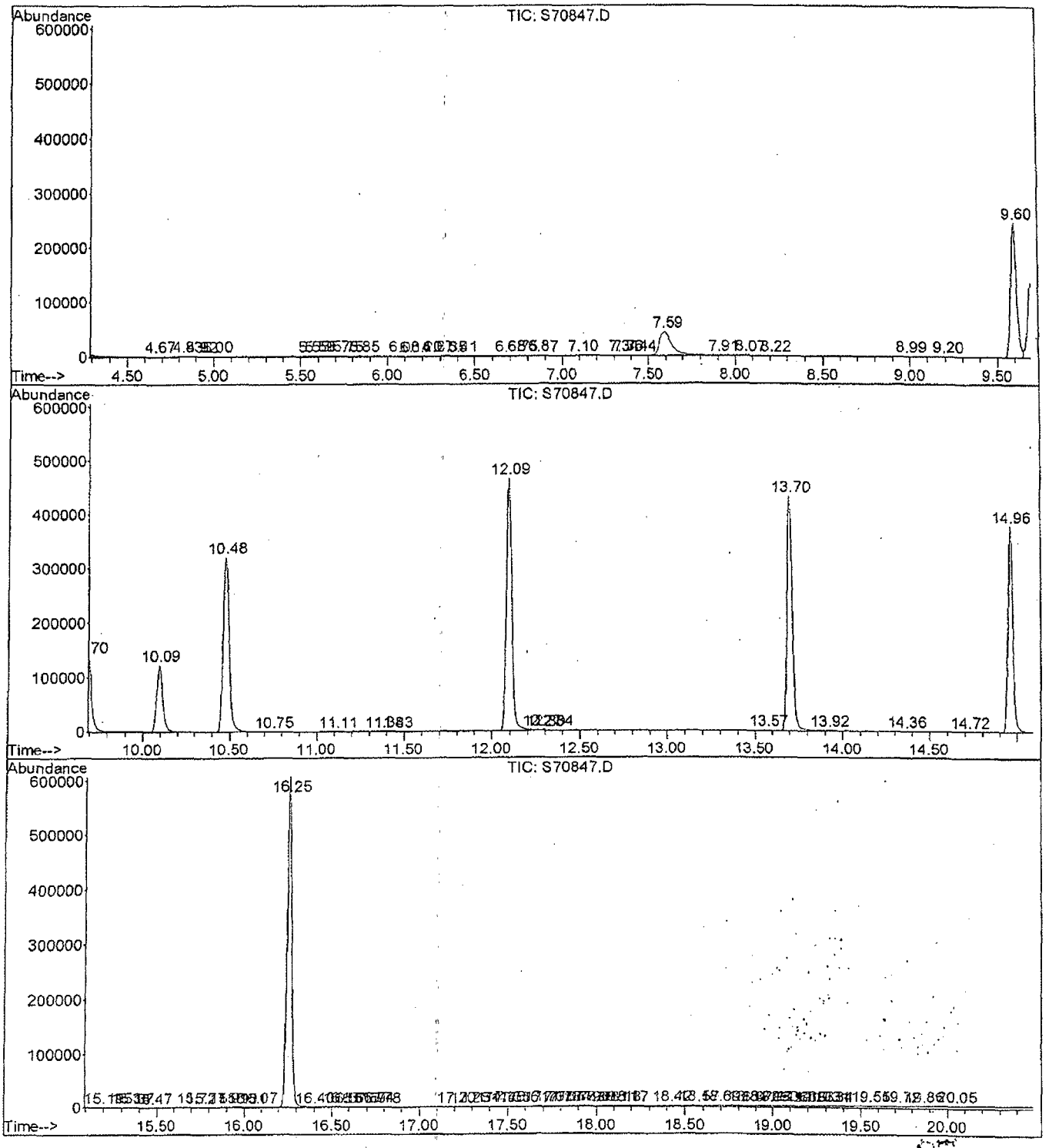
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.670	66	73	75	rBV2	508	1022	0.09%	0.017%
2	4.832	100	104	110	rVV2	657	888	0.08%	0.014%
3	4.916	110	120	125	rVB3	498	1024	0.09%	0.017%
4	5.005	135	137	144	rBV3	679	963	0.08%	0.016%
5	5.554	241	242	247	rVB3	690	710	0.06%	0.011%
6	5.590	247	249	256	rBV3	620	1013	0.09%	0.016%
7	5.726	270	275	279	rBV3	768	1030	0.09%	0.017%
8	5.753	279	280	285	rBV2	611	636	0.05%	0.010%
9	5.847	297	298	306	rBV	630	836	0.07%	0.014%
10	6.077	340	342	348	rVB2	502	551	0.05%	0.009%
11	6.140	353	354	359	rBV	427	587	0.05%	0.010%
[illegible]	6.202	364	366	373	rVB2	509	620	0.05%	0.010%
[illegible]	6.270	377	379	385	rBV2	476	555	0.05%	0.009%
14	6.349	392	394	403	rVB2	817	915	0.08%	0.015%
15	6.412	403	406	411	rBV2	565	562	0.05%	0.009%
16	6.684	457	458	464	rBV2	551	844	0.07%	0.014%
17	6.752	468	471	479	rVV2	604	962	0.08%	0.016%
18	6.872	489	494	498	rVV2	487	597	0.05%	0.010%
19	7.102	534	538	544	rBV2	535	784	0.07%	0.013%
20	7.337	578	583	587	rVB2	564	665	0.06%	0.011%
21	7.363	587	588	601	rVB2	414	898	0.08%	0.015%
22	7.442	601	603	610	rBV2	365	599	0.05%	0.010%
23	7.594	617	632	678	rBV	43134	208177	17.68%	3.369%
24	7.913	691	693	699	rVB3	736	743	0.06%	0.012%
25	8.069	715	723	726	rBV2	305	720	0.06%	0.012%
26	8.216	748	751	761	rBV	533	888	0.08%	0.014%
27	8.990	895	899	902	rBV2	521	715	0.06%	0.012%
28	9.199	932	939	942	rVB2	290	569	0.05%	0.009%
29	9.597	1004	1015	1025	rBV	247922	585454	49.71%	9.476%
30	9.696	1025	1034	1064	rVB	138399	353041	29.98%	5.714%
31	10.094	1100	1110	1144	rVB	123257	288684	24.51%	4.672%
32	10.475	1171	1183	1208	rBV	320887	742624	63.06%	12.020%
33	10.747	1233	1235	1240	rVB2	368	568	0.05%	0.009%
34	11.113	1299	1305	1307	rBV	476	729	0.06%	0.012%
35	11.380	1353	1356	1361	rVB	435	622	0.05%	0.010%
[illegible]	11.432	1361	1366	1368	rBB	476	546	0.05%	0.009%
[illegible]	12.091	1479	1492	1526	rVV	466142	1034682	87.86%	16.747%
38	12.275	1526	1527	1530	rVV2	1551	1414	0.12%	0.023%

40	12.343	1537	1540	1544	rVV	879	1307	0.11%	0.021%
41	13.572	1767	1775	1779	rBV2	836	1176	0.10%	0.019%
42	13.702	1789	1800	1834	rBV	432787	913817	77.59%	14.791%
43	13.917	1834	1841	1844	rVV2	863	2123	0.18%	0.034%
44	14.361	1921	1926	1932	rVB2	588	898	0.08%	0.015%
	14.722	1991	1995	2002	rVB	529	944	0.08%	0.015%
46	14.963	2031	2041	2073	rVV	378426	775757	65.87%	12.556%
47	15.193	2076	2085	2088	rVB2	688	1571	0.13%	0.025%
48	15.345	2106	2114	2115	rVV2	602	1190	0.10%	0.019%
49	15.366	2115	2118	2122	rVV2	622	728	0.06%	0.012%
50	15.470	2136	2138	2146	rBV	515	847	0.07%	0.014%
51	15.721	2179	2186	2192	rVV3	941	1878	0.16%	0.030%
52	15.773	2192	2196	2205	rVV3	726	1623	0.14%	0.026%
53	15.909	2219	2222	2226	rVB	604	637	0.05%	0.010%
54	15.957	2226	2231	2238	rBV2	960	1986	0.17%	0.032%
55	16.009	2238	2241	2245	rVB2	506	656	0.06%	0.011%
56	16.072	2245	2253	2259	rBV3	793	2134	0.18%	0.035%
57	16.255	2273	2288	2312	rBV	606392	1177692	100.00%	19.062%
58	16.396	2312	2315	2319	rVB3	787	970	0.08%	0.016%
59	16.553	2341	2345	2347	rBV2	946	1160	0.10%	0.019%
60	16.574	2347	2349	2354	rVV2	722	732	0.06%	0.012%
61	16.616	2354	2357	2362	rVV2	412	679	0.06%	0.011%
62	16.689	2365	2371	2378	rBV2	705	1884	0.16%	0.030%
63	16.736	2378	2380	2387	rVV2	1014	1201	0.10%	0.019%
64	16.778	2387	2388	2400	rVB	471	580	0.05%	0.009%
65	17.201	2468	2469	2473	rVB2	535	548	0.05%	0.009%
66	17.280	2476	2484	2487	rBV2	773	1246	0.11%	0.020%
67	17.343	2494	2496	2502	rVB2	678	908	0.08%	0.015%
	17.426	2508	2512	2518	rVB2	730	1186	0.10%	0.019%
	17.479	2518	2522	2524	rBV2	751	745	0.06%	0.012%
	17.510	2525	2528	2533	rVB2	515	619	0.05%	0.010%
71	17.557	2533	2537	2539	rBV3	408	562	0.05%	0.009%
72	17.698	2563	2564	2573	rBV3	671	1555	0.13%	0.025%
73	17.756	2573	2575	2578	rBV	673	561	0.05%	0.009%
74	17.787	2578	2581	2588	rVB2	702	1330	0.11%	0.022%
75	17.845	2589	2592	2596	rBV2	677	969	0.08%	0.016%
76	17.871	2596	2597	2602	rBV3	698	788	0.07%	0.013%
77	17.928	2602	2608	2611	rVV	608	719	0.06%	0.012%
78	17.954	2611	2613	2618	rVB2	886	1083	0.09%	0.018%
79	17.991	2618	2620	2623	rBV2	611	617	0.05%	0.010%
80	18.111	2635	2643	2645	rVB3	627	1028	0.09%	0.017%
81	18.132	2645	2647	2650	rVB2	541	546	0.05%	0.009%
82	18.174	2653	2655	2657	rBV2	728	577	0.05%	0.009%
83	18.420	2700	2702	2711	rBV3	1211	2001	0.17%	0.032%
84	18.572	2723	2731	2737	rBV3	1291	3181	0.27%	0.051%
85	18.692	2752	2754	2763	rVB5	862	1579	0.13%	0.026%
86	18.844	2777	2783	2786	rVB3	818	976	0.08%	0.016%
87	18.875	2786	2789	2796	rBV4	698	1360	0.12%	0.022%
88	18.922	2796	2798	2807	rVB3	1615	3054	0.26%	0.049%
89	18.985	2807	2810	2813	rBV2	864	989	0.08%	0.016%
90	19.079	2817	2828	2830	rVB5	1104	2107	0.18%	0.034%
91	19.105	2830	2833	2836	rBV4	711	863	0.07%	0.014%
	19.126	2836	2837	2843	rBV3	928	847	0.07%	0.014%
	19.178	2843	2847	2849	rBV2	817	1054	0.09%	0.017%
94	19.225	2852	2856	2870	rBV7	1166	3259	0.28%	0.053%
95	19.314	2870	2873	2874	rBV2	1015	763	0.06%	0.012%

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\S70847.D
Operator : mei
Acquired : 23 Dec 2004 11:19 pm using AcqMethod MS2585
Instrument : MSS
Sample Name: mb1
Misc Info : MS8694,VS2588,5,,,,1
Vial Number: 100
Quant File :MS2585.RES (RTE Integrator)



S70847.D MS2585.M Tue Dec 28 12:53:33 2004 RPT1

Tentatively Identified Compound (LSC) summary

Operator ID: mei Date Acquired: 23 Dec 2004 11:19 pm
Data File: C:\HPCHEM\1\DATA\S70847.D
Name: mb1
Misc: MS8694,VS2588,5,,,,1
Method: C:\HPCHEM\1\METHODS\MS2585.M (RTE Integrator)
Title: SW-846 Method 8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

S70847.D MS2585.M Tue Dec 28 12:53:33 2004 RPT1

SEMI-VOLATILE

ACCUTEST.

GC/MS Analysis Case Narrative/Conformance/Non-Conformance Summary

Fraction Semi Volatile

	NO	YES
1. Chromatograms Labeled/Compounds Identified *(Field Samples and Method Blanks)*		✓
2. GC/MS Tune Meet Criteria		✓
3. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series.		✓
4. GC/MS Calibration – Initial and Continuing Calibration Meet Method Requirements		✓
5. GC/MS Calibration Requirements		
a. Calibration Check Compounds		✓
b. System Performance Check Compounds		✓
6. Blank Contamination	✓	
If yes, the sample result is qualified with a "B".		
7. Surrogate Recoveries Meet Criteria		✓
If the requirement is not met, refer to the Surrogate Summary for comment.		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓
If the requirement is not met, refer to MS/MSD Summary for comment.		
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓
If the requirement is not met, refer to the Internal Standard Summary for comment.		
10. Extraction Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		
11. Analysis Holding Time Met		✓
If the holding time is not met, refer to the Sample Result page for comment.		

12. Volatile Sample Preservation – pH should be < 2. *List any non-compliant samples below:*

Additional Comments:

QC Review Signature: Elma Chang Date: 1/10/05

Form: RG04
Rev. Date: 2/9/00

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MB1	F47472.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508

The QC reported here applies to the following samples: Method: SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MB1	F47472.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508

The QC reported here applies to the following samples: **Method:** SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	60%	10-88%
4165-62-2	Phenol-d5	40%	10-71%
118-79-6	2,4,6-Tribromophenol	103%	45-134%
4165-60-0	Nitrobenzene-d5	105%	32-128%

Method Blank Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MB1	F47472.D	1	01/08/05	NAP	12/16/04	OP19045	EF2508

The QC reported here applies to the following samples: Method: SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	96%	34-121%
1718-51-0	Terphenyl-d14	106%	41-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.88	5.2	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-BS1	F47511.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: **Method:** SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	40.4	81	49-101
59-50-7	4-Chloro-3-methyl phenol	50	47.1	94	52-111
120-83-2	2,4-Dichlorophenol	50	46.0	92	54-110
105-67-9	2,4-Dimethylphenol	50	37.4	75	40-108
51-28-5	2,4-Dinitrophenol	100	93.7	94	32-129
534-52-1	4,6-Dinitro-o-cresol	50	49.3	99	49-125
95-48-7	2-Methylphenol	50	32.9	66	40-98
	3&4-Methylphenol	50	29.7	59	32-97
88-75-5	2-Nitrophenol	50	48.4	97	50-112
100-02-7	4-Nitrophenol	50	14.7	29	1-88
87-86-5	Pentachlorophenol	50	39.9	80	37-121
108-95-2	Phenol	50	16.7	33	1-84
95-95-4	2,4,5-Trichlorophenol	50	45.5	91	57-118
88-06-2	2,4,6-Trichlorophenol	50	45.3	91	55-114
83-32-9	Acenaphthene	50	41.9	84	53-109
208-96-8	Acenaphthylene	50	38.8	78	48-101
120-12-7	Anthracene	50	42.9	86	61-113
56-55-3	Benzo(a)anthracene	50	44.5	89	62-115
50-32-8	Benzo(a)pyrene	50	44.2	88	60-118
205-99-2	Benzo(b)fluoranthene	50	46.2	92	58-122
191-24-2	Benzo(g,h,i)perylene	50	44.2	88	52-131
207-08-9	Benzo(k)fluoranthene	50	45.5	91	51-131
101-55-3	4-Bromophenyl phenyl ether	50	46.0	92	57-115
85-68-7	Butyl benzyl phthalate	50	48.2	96	61-124
91-58-7	2-Chloronaphthalene	50	41.3	83	50-109
106-47-8	4-Chloroaniline	50	34.4	69	27-115
86-74-8	Carbazole	50	47.2	94	60-133
218-01-9	Chrysene	50	43.5	87	61-118
111-91-1	bis(2-Chloroethoxy)methane	50	46.5	93	50-115
111-44-4	bis(2-Chloroethyl)ether	50	46.9	94	45-113
108-60-1	bis(2-Chloroisopropyl)ether	50	46.2	92	46-109
7005-72-3	4-Chlorophenyl phenyl ether	50	44.9	90	54-115
95-50-1	1,2-Dichlorobenzene	50	41.5	83	41-106
541-73-1	1,3-Dichlorobenzene	50	38.9	78	38-102
106-46-7	1,4-Dichlorobenzene	50	40.6	81	39-103
121-14-2	2,4-Dinitrotoluene	50	48.0	96	62-118

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-BS1	F47511.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: **Method:** SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	47.5	95	57-118
91-94-1	3,3'-Dichlorobenzidine	50	39.7	79	39-131
53-70-3	Dibenzo(a,h)anthracene	50	44.6	89	53-130
132-64-9	Dibenzofuran	50	42.7	85	55-115
84-74-2	Di-n-butyl phthalate	50	54.6	109	61-125
117-84-0	Di-n-octyl phthalate	50	56.9	114	55-140
84-66-2	Diethyl phthalate	50	49.9	100	57-118
131-11-3	Dimethyl phthalate	50	47.2	94	45-123
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.2	102	57-128
206-44-0	Fluoranthene	50	47.7	95	60-122
86-73-7	Fluorene	50	45.0	90	54-112
118-74-1	Hexachlorobenzene	50	47.5	95	58-114
87-68-3	Hexachlorobutadiene	50	45.2	90	41-116
77-47-4	Hexachlorocyclopentadiene	100	60.6	61	19-107
67-72-1	Hexachloroethane	50	42.8	86	36-104
193-39-5	Indeno(1,2,3-cd)pyrene	50	45.3	91	52-131
78-59-1	Isophorone	50	47.6	95	46-113
91-57-6	2-Methylnaphthalene	50	43.7	87	47-109
88-74-4	2-Nitroaniline	50	51.4	103	53-122
99-09-2	3-Nitroaniline	50	39.8	80	43-127
100-01-6	4-Nitroaniline	50	46.6	93	47-140
91-20-3	Naphthalene	50	41.3	83	44-105
98-95-3	Nitrobenzene	50	42.5	85	46-108
621-64-7	N-Nitroso-di-n-propylamine	50	49.1	98	50-117
86-30-6	N-Nitrosodiphenylamine	50	41.4	83	60-121
85-01-8	Phenanthrene	50	41.9	84	59-110
129-00-0	Pyrene	50	41.1	82	60-115
120-82-1	1,2,4-Trichlorobenzene	50	41.8	84	44-103

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	10-88%
4165-62-2	Phenol-d5	25%	10-71%
118-79-6	2,4,6-Tribromophenol	95%	45-134%
4165-60-0	Nitrobenzene-d5	84%	32-128%

Blank Spike Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-BS1	F47511.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: Method: SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	78%	34-121%
1718-51-0	Terphenyl-d14	83%	41-129%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MS	F47515.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
OP19045-MSD	F47516.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
N86299-1	F47514.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: Method: SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	N86299-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		100	88.5	89	91.5	92	3	30-117/28
59-50-7	4-Chloro-3-methyl phenol	ND		100	101	101	105	105	4	36-129/25
120-83-2	2,4-Dichlorophenol	ND		100	95.5	96	98.9	99	3	37-124/27
105-67-9	2,4-Dimethylphenol	2.4	J	100	97.9	96	103	101	5	28-121/28
51-28-5	2,4-Dinitrophenol	ND		200	205	103	217	109	6	8-144/32
534-52-1	4,6-Dinitro-o-cresol	ND		100	110	110	113	113	3	24-142/29
95-48-7	2-Methylphenol	ND		100	80.9	81	82.8	83	2	30-114/28
	3&4-Methylphenol	ND		100	78.1	78	80.0	80	2	21-122/28
88-75-5	2-Nitrophenol	ND		100	100	100	104	104	4	34-123/27
100-02-7	4-Nitrophenol	ND		100	55.6	56	59.3	59	6	1-129/33
87-86-5	Pentachlorophenol	ND		100	96.9	97	96.5	97	0	36-143/24
108-95-2	Phenol	ND		100	51.9	52	53.7	54	3	1-102/32
95-95-4	2,4,5-Trichlorophenol	ND		100	95.9	96	98.4	98	3	41-131/24
88-06-2	2,4,6-Trichlorophenol	ND		100	95.6	96	99.0	99	3	43-121/25
83-32-9	Acenaphthene	34.2		100	119	85	119	85	0	40-114/30
208-96-8	Acenaphthylene	0.68	J	100	79.6	79	80.8	80	1	36-106/31
120-12-7	Anthracene	1.2	J	100	90.8	90	92.0	91	1	54-119/23
56-55-3	Benzo(a)anthracene	ND		100	93.7	94	93.2	93	1	57-122/22
50-32-8	Benzo(a)pyrene	ND		100	92.2	92	91.0	91	1	53-126/23
205-99-2	Benzo(b)fluoranthene	ND		100	100	100	105	105	5	50-135/26
191-24-2	Benzo(g,h,i)perylene	ND		100	92.0	92	92.4	92	0	35-141/29
207-08-9	Benzo(k)fluoranthene	ND		100	91.6	92	86.1	86	6	37-144/24
101-55-3	4-Bromophenyl phenyl ether	ND		100	97.0	97	98.2	98	1	49-121/25
85-68-7	Butyl benzyl phthalate	ND		100	102	102	102	102	0	56-132/23
91-58-7	2-Chloronaphthalene	ND		100	84.3	84	86.3	86	2	34-115/30
106-47-8	4-Chloroaniline	ND		100	62.3	62	65.7	66	5	10-108/37
86-74-8	Carbazole	13.4		100	113	100	115	102	2	49-146/22
218-01-9	Chrysene	ND		100	90.8	91	91.1	91	0	55-125/23
111-91-1	bis(2-Chloroethoxy)methane	ND		100	93.7	94	95.5	96	2	37-119/32
111-44-4	bis(2-Chloroethyl)ether	ND		100	94.9	95	96.5	97	2	32-122/37
108-60-1	bis(2-Chloroisopropyl)ether	ND		100	94.4	94	95.4	95	1	34-112/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	91.7	92	93.9	94	2	43-118/27
95-50-1	1,2-Dichlorobenzene	ND		100	86.7	87	89.1	89	3	31-110/31
541-73-1	1,3-Dichlorobenzene	ND		100	81.6	82	84.2	84	3	27-107/32
106-46-7	1,4-Dichlorobenzene	ND		100	84.7	85	87.4	87	3	29-108/31
121-14-2	2,4-Dinitrotoluene	ND		100	98.0	98	101	101	3	50-125/31

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MS	F47515.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
OP19045-MSD	F47516.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
N86299-1	F47514.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: **Method:** SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Compound	N86299-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		100	98.3	98	101	101	3	45-124/28
91-94-1	3,3'-Dichlorobenzidine	ND		100	74.8	75	82.9	83	10	1-145/37
53-70-3	Dibenzo(a,h)anthracene	ND		100	93.5	94	94.1	94	1	40-138/27
132-64-9	Dibenzofuran	27.3		100	111	84	115	88	4	42-119/28
84-74-2	Di-n-butyl phthalate	ND		100	117	117	113	113	3	54-131/22
117-84-0	Di-n-octyl phthalate	ND		100	123	123	121	121	2	49-151/25
84-66-2	Diethyl phthalate	ND		100	103	103	102	102	1	49-123/24
131-11-3	Dimethyl phthalate	ND		100	98.0	98	98.5	99	1	39-124/27
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	110	110	108	108	2	51-140/29
206-44-0	Fluoranthene	1.9	J	100	102	100	102	100	0	52-129/22
86-73-7	Fluorene	7.1		100	98.5	91	101	94	3	43-116/26
118-74-1	Hexachlorobenzene	ND		100	103	103	99.1	99	4	49-121/24
87-68-3	Hexachlorobutadiene	ND		100	95.7	96	97.8	98	2	30-126/33
77-47-4	Hexachlorocyclopentadiene	ND		200	120	60	131	66	9	1-109/41
67-72-1	Hexachloroethane	ND		100	91.6	92	94.4	94	3	22-113/34
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	95.1	95	94.7	95	0	40-139/28
78-59-1	Isophorone	ND		100	95.7	96	96.9	97	1	34-116/37
91-57-6	2-Methylnaphthalene	1.3	J	100	90.3	89	92.0	91	2	28-123/32
88-74-4	2-Nitroaniline	ND		100	102	102	107	107	5	30-135/33
99-09-2	3-Nitroaniline	ND		100	78.9	79	79.0	79	0	15-134/35
100-01-6	4-Nitroaniline	ND		100	97.8	98	103	103	5	18-153/32
91-20-3	Naphthalene	37.2		100	117	80	119	82	2	22-120/30
98-95-3	Nitrobenzene	ND		100	86.8	87	88.4	88	2	31-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		100	99.2	99	100	100	1	32-125/33
86-30-6	N-Nitrosodiphenylamine	ND		100	88.1	88	89.7	90	2	49-131/24
85-01-8	Phenanthrene	6.6		100	94.3	88	94.7	88	0	51-117/23
129-00-0	Pyrene	0.91	J	100	86.6	86	86.7	86	0	54-122/22
120-82-1	1,2,4-Trichlorobenzene	ND		100	86.7	87	89.1	89	3	27-115/31

CAS No.	Surrogate Recoveries	MS	MSD	N86299-1	Limits
367-12-4	2-Fluorophenol	56%	56%	40%	10-88%
4165-62-2	Phenol-d5	42%	43%	25%	10-71%
118-79-6	2,4,6-Tribromophenol	102%	101%	102%	45-134%
4165-60-0	Nitrobenzene-d5	85%	87%	91%	32-128%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19045-MS	F47515.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
OP19045-MSD	F47516.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509
N86299-1	F47514.D	1	01/10/05	NAP	12/16/04	OP19045	EF2509

The QC reported here applies to the following samples: **Method:** SW846 8270C

N86261-1, N86261-2, N86261-3, N86261-4, N86261-6

CAS No.	Surrogate Recoveries	MS	MSD	N86299-1	Limits
321-60-8	2-Fluorobiphenyl	80%	81%	82%	34-121%
1718-51-0	Terphenyl-d14	85%	87%	98%	41-129%

Instrument Performance Check (DFTPP)

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2491-DFTPP	**Injection Date:**	12/14/04
Lab File ID:	F46939.D	**Injection Time:**	16:21
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	4643	45.7	Pass
68	Less than 2.0% of mass 69	52	0.51 (1.1) [a]	Pass
69	Mass 69 relative abundance	4650	45.8	Pass
70	Less than 2.0% of mass 69	0	0.0 (0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	5573	54.9	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	10149	100.0	Pass
199	5.0 - 9.0% of mass 198	607	6.0	Pass
275	10.0 - 30.0% of mass 198	2337	23.0	Pass
365	1.0 - 100.0% of mass 198	192	1.9	Pass
441	Present, but less than mass 443	1092	10.8 (77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	7223	71.2	Pass
443	17.0 - 23.0% of mass 442	1414	13.9 (19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2491-ICC2491	F46940.D	12/14/04	16:45	00:24	Initial cal 50
EF2491-IC2491	F46941.D	12/14/04	17:22	01:01	Initial cal 100
EF2491-IC2491	F46942.D	12/14/04	17:59	01:38	Initial cal 80
EF2491-IC2491	F46943.D	12/14/04	18:36	02:15	Initial cal 25
EF2491-IC2491	F46944.D	12/14/04	19:12	02:51	Initial cal 10
EF2491-IC2491	F46945.D	12/14/04	19:49	03:28	Initial cal 5
EF2491-IC2491	F46946.D	12/14/04	20:26	04:05	Initial cal 2
OP18875-MB1	F46948.D	12/14/04	21:39	05:18	Method Blank
ZZZZZZ	F46949.D	12/14/04	22:15	05:54	(unrelated sample)
ZZZZZZ	F46950.D	12/14/04	22:52	06:31	(unrelated sample)
ZZZZZZ	F46951.D	12/14/04	23:29	07:08	(unrelated sample)
ZZZZZZ	F46952.D	12/15/04	00:05	07:44	(unrelated sample)
ZZZZZZ	F46953.D	12/15/04	00:42	08:21	(unrelated sample)
ZZZZZZ	F46954.D	12/15/04	01:19	08:58	(unrelated sample)
ZZZZZZ	F46955.D	12/15/04	01:56	09:35	(unrelated sample)
ZZZZZZ	F46956.D	12/15/04	02:32	10:11	(unrelated sample)
ZZZZZZ	F46957.D	12/15/04	03:09	10:48	(unrelated sample)
ZZZZZZ	F46958.D	12/15/04	03:47	11:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2508-DFTPP	**Injection Date:**	01/08/05
Lab File ID:	F47468.D	**Injection Time:**	08:59
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	10455	42.3	Pass
68	Less than 2.0% of mass 69	0	0.0 (0.0) [a]	Pass
69	Mass 69 relative abundance	10463	42.3	Pass
70	Less than 2.0% of mass 69	189	0.76 (1.8) [a]	Pass
127	40.0 - 60.0% of mass 198	12101	49.0	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	24717	100.0	Pass
199	5.0 - 9.0% of mass 198	1661	6.7	Pass
275	10.0 - 30.0% of mass 198	5676	23.0	Pass
365	1.0 - 100.0% of mass 198	596	2.4	Pass
441	Present, but less than mass 443	2901	11.7 (75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	19728	79.8	Pass
443	17.0 - 23.0% of mass 442	3850	15.6 (19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2508-CC2491	F47469.D	01/08/05	09:13	00:14	Continuing cal 25
OP19048-MB1	F47470.D	01/08/05	09:50	00:51	Method Blank
OP19048-BS1	F47471.D	01/08/05	10:25	01:26	Blank Spike
OP19045-MB1	F47472.D	01/08/05	11:01	02:02	Method Blank
ZZZZZZ	F47473.D	01/08/05	11:37	02:38	(unrelated sample)
N86261-3	F47474.D	01/08/05	12:13	03:14	WELL X
N86261-4	F47475.D	01/08/05	12:49	03:50	FB-2
N86157-4A	F47476.D	01/08/05	13:25	04:26	(used for QC only; not part of job N86261)
ZZZZZZ	F47477.D	01/08/05	14:01	05:02	(unrelated sample)
OP19048-MS	F47478.D	01/08/05	14:37	05:38	Matrix Spike
OP19048-MSD	F47479.D	01/08/05	15:13	06:14	Matrix Spike Duplicate
ZZZZZZ	F47481.D	01/08/05	16:24	07:25	(unrelated sample)
N86261-6	F47484.D	01/08/05	18:12	09:13	WELL AX
ZZZZZZ	F47485.D	01/08/05	18:48	09:49	(unrelated sample)
ZZZZZZ	F47486.D	01/08/05	19:24	10:25	(unrelated sample)
ZZZZZZ	F47488.D	01/08/05	20:35	11:36	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample:	EF2509-DFTPP	Injection Date:	01/10/05
Lab File ID:	F47509.D	Injection Time:	08:29
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	10423	45.8	Pass
68	Less than 2.0% of mass 69	65	0.29 (0.62) [a]	Pass
69	Mass 69 relative abundance	10514	46.2	Pass
70	Less than 2.0% of mass 69	59	0.26 (0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	12127	53.3	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	22741	100.0	Pass
199	5.0 - 9.0% of mass 198	1687	7.4	Pass
275	10.0 - 30.0% of mass 198	5424	23.9	Pass
365	1.0 - 100.0% of mass 198	510	2.2	Pass
441	Present, but less than mass 443	2546	11.2 (73.6) [b]	Pass
442	40.0 - 100.0% of mass 198	17620	77.5	Pass
443	17.0 - 23.0% of mass 442	3458	15.2 (19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF2509-CC2491	F47510.D	01/10/05	09:20	00:51	Continuing cal 25
OP19045-BS1	F47511.D	01/10/05	09:55	01:26	Blank Spike
N86261-1	F47512.D	01/10/05	10:31	02:02	WELL AY
N86261-2	F47513.D	01/10/05	11:07	02:38	WELL AV
N86299-1	F47514.D	01/10/05	11:43	03:14	(used for QC only; not part of job N86261)
OP19045-MS	F47515.D	01/10/05	12:19	03:50	Matrix Spike
OP19045-MSD	F47516.D	01/10/05	12:54	04:25	Matrix Spike Duplicate
ZZZZZZ	F47517.D	01/10/05	13:30	05:01	(unrelated sample)
ZZZZZZ	F47518.D	01/10/05	14:06	05:37	(unrelated sample)
ZZZZZZ	F47519.D	01/10/05	14:42	06:13	(unrelated sample)
ZZZZZZ	F47520.D	01/10/05	15:18	06:49	(unrelated sample)
ZZZZZZ	F47521.D	01/10/05	15:54	07:25	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2508-CC2491	**Injection Date:**	01/08/05
Lab File ID:	F47469.D	**Injection Time:**	09:13
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	304882	6.30	1177480	8.92	627020	13.00	1093894	16.48	1052973	22.03	641020	24.35
Upper Limit [a]	609764	6.80	2354960	9.42	1254040	13.50	2187788	16.98	2105946	22.53	1282040	24.85
Lower Limit [b]	152441	5.80	588740	8.42	313510	12.50	546947	15.98	526487	21.53	320510	23.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19048-MB1	290780	6.29	1153908	8.91	604412	13.00	1035876	16.48	978057	22.02	616877	24.35
OP19048-BS1	315575	6.30	1206755	8.91	626141	13.00	1056617	16.48	1020167	22.03	644226	24.35
OP19045-MB1	225134	6.30	881061	8.91	461964	12.99	810039	16.48	746263	22.02	468309	24.35
ZZZZZZ	254499	6.30	1009087	8.91	523740	12.99	928946	16.48	864232	22.02	524368	24.35
N86261-3	275454	6.30	1087924	8.91	579461	12.99	1029463	16.48	973213	22.02	601234	24.35
N86261-4	268040	6.30	1062546	8.91	567538	12.99	990871	16.48	929862	22.03	572690	24.35
N86157-4A	326851	6.30	1217622	8.91	586225	13.00	1055946	16.48	901557	22.05	284923*	24.39
ZZZZZZ	332270	6.30	1273633	8.91	613638	13.00	984607	16.48	956688	22.03	574188	24.35
OP19048-MS	286571	6.30	1027025	8.91	522788	13.00	926214	16.48	781487	22.05	238131*	24.39
OP19048-MSD	303601	6.30	1093151	8.92	557933	13.01	977841	16.49	738918	22.06	220048*	24.40
ZZZZZZ	281300	6.30	1042068	8.92	527097	13.01	933405	16.49	739929	22.04	224922*	24.37
N86261-6	262235	6.31	1023952	8.92	548337	13.00	960822	16.48	762285	22.03	320964	24.35
ZZZZZZ	280957	6.31	1151672	8.92	586856	13.00	981884	16.48	763009	22.03	336624	24.36
ZZZZZZ	285402	6.30	1154127	8.92	607026	13.01	1043352	16.48	831987	22.03	357701	24.35
ZZZZZZ	319466	6.30	1176903	8.92	557101	13.00	922832	16.48	760480	22.03	272838*	24.36

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Check Std:	EF2509-CC2491	**Injection Date:**	01/10/05
Lab File ID:	F47510.D	**Injection Time:**	09:20
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	365765	6.30	1393234	8.92	762933	13.01	1292189	16.49	1283387	22.03	761360	24.36
Upper Limit [a]	731530	6.80	2786468	9.42	1525866	13.51	2584378	16.99	2566774	22.53	1522720	24.86
Lower Limit [b]	182883	5.80	696617	8.42	381467	12.51	646095	15.99	641694	21.53	380680	23.86

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP19045-BS1	308096	6.30	1203834	8.92	659759	13.01	1153939	16.49	1237770	22.03	756439	24.36
N86261-1	297550	6.30	1216250	8.91	663970	13.00	1182796	16.48	1161702	22.03	734866	24.35
N86261-2	291001	6.30	1200521	8.92	650226	13.01	1152209	16.49	1089300	22.03	660811	24.35
N86299-1	294024	6.30	1162419	8.91	651252	13.00	1157250	16.48	1086544	22.03	674896	24.35
OP19045-MS	345318	6.30	1349187	8.92	732434	13.01	1248428	16.49	1345413	22.04	822905	24.36
OP19045-MSD	321713	6.30	1264000	8.92	687635	13.01	1192382	16.49	1262890	22.04	779765	24.36
ZZZZZZ	298109	6.30	1171009	8.91	656582	13.00	1119745	16.48	1103065	22.03	674192	24.35
ZZZZZZ	286270	6.30	1102060	8.95	654209	13.01	1097060	16.49	1142762	22.03	730436	24.36
ZZZZZZ	247401	6.30	1002919	8.96	604556	13.01	1018232	16.48	914473	22.03	553378	24.36
ZZZZZZ	306358	6.30	1318907	8.92	719014	13.00	1263470	16.48	1181240	22.03	737778	24.36
ZZZZZZ	287586	6.29	1156414	8.91	632419	13.00	1107798	16.48	1140641	22.03	697416	24.36

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
N86261-1	F47512.D	44.0	29.0	87.0	76.0	70.0	83.0
N86261-2	F47513.D	46.0	32.0	99.0	78.0	73.0	93.0
N86261-3	F47474.D	39.0	27.0	88.0	72.0	69.0	95.0
N86261-4	F47475.D	45.0	29.0	81.0	85.0	75.0	92.0
N86261-6	F47484.D	49.0	32.0	96.0	89.0	85.0	112.0
OP19045-BS1	F47511.D	38.0	25.0	95.0	84.0	78.0	83.0
OP19045-MB1	F47472.D	60.0	40.0	103.0	105.0	96.0	106.0
OP19045-MB1	P11389.D	60.0	39.0	124.0	101.0	95.0	106.0
OP19045-MS	F47515.D	56.0	42.0	102.0	85.0	80.0	85.0
OP19045-MSD	F47516.D	56.0	43.0	101.0	87.0	81.0	87.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-88%
S2 = Phenol-d5	10-71%
S3 = 2,4,6-Tribromophenol	45-134%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	34-121%
S6 = Terphenyl-d14	41-129%

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Dec 20 09:17:47 2004
Response via : Initial Calibration

Calibration Files
2 =F46946.D 5 =F46945.D 25 =F46943.D 80 =F46942.D
100 =F46941.D 50 =F46940.D 10 =F46944.D =

Compound	2	5	25	80	100	50	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2) 1,4-Dioxane	0.829	0.741	0.653	0.583	0.594	0.628	0.708	0.676	13.05
3) Pyridine	1.702	1.719	1.682	1.489	1.514	1.594	1.780	1.640	6.69
4) N-Nitrosodim	0.621	0.550	0.532	0.481	0.488	0.514	0.581	0.538	9.37
5) 2-Fluorophen	1.486	1.528	1.409	1.250	1.257	1.344	1.491	1.395	8.19
6) Indene	2.452	2.509	2.532	2.320	2.349	2.429	2.670	2.466	4.81
7) Cumene	3.078	3.209	3.184	3.030	3.075	3.134	3.361	3.153	3.54
8) Phenol-d5	1.825	1.872	1.724	1.450	1.450	1.605	1.829	1.679	10.69
9) Phenol	1.969	1.989	1.927	1.569	1.567	1.765	2.048	1.833	10.98
10) Aniline	2.140	2.285	2.232	1.837	1.852	2.040	2.380	2.110	9.96
11) bis(2-Chloro	1.345	1.370	1.348	1.213	1.213	1.276	1.418	1.312	6.05
12) Benzaldehyde	0.275	0.361	0.593	0.238	0.181	0.401	0.405	0.351	38.87
13) 2-Chlorophen	1.433	1.462	1.447	1.271	1.281	1.366	1.537	1.399	7.02
14) Decane	1.292	1.363	1.313	1.174	1.166	1.231	1.423	1.280	7.47
15) 1,3-Dichloro	1.535	1.598	1.584	1.468	1.492	1.529	1.669	1.554	4.43
16) 1,4-Dichloro	1.637	1.653	1.595	1.490	1.499	1.552	1.690	1.588	4.87
17) Benzyl alcoh	0.909	0.925	0.949	0.823	0.826	0.901	0.985	0.903	6.67
18) 1,2-Dichloro	1.495	1.533	1.489	1.365	1.382	1.441	1.584	1.470	5.39
19) Acetophenone	1.926	1.959	1.948	1.703	1.731	1.837	2.056	1.880	6.85
20) 2-Methylphen	1.309	1.336	1.303	1.103	1.116	1.210	1.370	1.250	8.60
21) 2,2'-oxybis(	0.460	0.466	0.459	0.419	0.420	0.437	0.490	0.450	5.74
22) 3&4-Methylph	1.348	1.374	1.388	1.150	1.163	1.276	1.455	1.308	8.87
23) n-Nitroso-di	0.758	0.811	0.823	0.717	0.728	0.772	0.850	0.780	6.36
24) Hexachloroet	0.479	0.507	0.525	0.500	0.511	0.515	0.547	0.512	4.14
25) I Naphthalene-d8	ISTD								
26) Nitrobenzene	0.349	0.372	0.390	0.371	0.378	0.383	0.408	0.379	4.84
27) Nitrobenzene	0.161	0.172	0.181	0.172	0.176	0.177	0.188	0.175	4.81
28) Quinoline	0.664	0.679	0.691	0.618	0.640	0.662	0.727	0.669	5.29
29) Isophorone	0.607	0.637	0.645	0.580	0.593	0.614	0.681	0.622	5.56
30) 2-Nitropheno	0.131	0.154	0.183	0.180	0.184	0.181	0.184	0.171	12.07
31) 2,4-Dimethyl	0.317	0.338	0.349	0.313	0.322	0.334	0.355	0.332	4.81
32) Benzoic acid			0.238	0.253	0.263	0.244	0.181	0.236	13.56
33) bis(2-Chloro	0.382	0.398	0.396	0.364	0.370	0.376	0.418	0.386	4.90
34) 2,4-Dichloro	0.251	0.264	0.278	0.256	0.262	0.269	0.289	0.267	4.90
35) 1,3,5-Trichl	0.335	0.343	0.335	0.326	0.331	0.331	0.354	0.337	2.75
36) 1,2,4-Trichl	0.324	0.326	0.322	0.313	0.320	0.318	0.343	0.324	2.94
37) 1,2,3-Trichl	0.310	0.314	0.309	0.297	0.306	0.305	0.329	0.310	3.22
38) alpha-Terpin	0.268	0.278	0.277	0.241	0.240	0.255	0.297	0.265	7.90
39) Naphthalene	1.111	1.110	1.063	0.983	0.998	1.027	1.137	1.061	5.68
40) 4-Chloroanil	0.404	0.441	0.444	0.389	0.396	0.421	0.470	0.423	6.98
41) 2,3-Dichloro	0.311	0.332	0.335	0.299	0.307	0.322	0.352	0.323	5.68
42) Caprolactam	0.100	0.121	0.137	0.117	0.122	0.128	0.139	0.124	10.68
43) Hexachlorobu	0.182	0.183	0.184	0.182	0.186	0.183	0.195	0.185	2.54
44) 4-Chloro-3-m	0.248	0.276	0.296	0.265	0.274	0.284	0.300	0.278	6.47
45) 2-Methylnaph	0.673	0.693	0.702	0.641	0.657	0.675	0.740	0.681	6.77

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

46)	1-Methylnaph	0.655	0.676	0.678	0.620	0.636	0.659	0.713		0.662	4.56
47)	Dimethylnaph	0.565	0.591	0.601	0.541	0.552	0.578	0.633		0.580	5.38
48)	I Acenaphthene-d10	----------ISTD----------									
49)	Hexachlorocy	0.180	0.209	0.304	0.358	0.369	0.335	0.283		0.291	24.99
	----- Linear regression ----- Coefficient = 0.9984										
	Response Ratio = -0.05128 + 0.37242 *A										
50)	2,4,6-Trichl	0.324	0.369	0.397	0.395	0.405	0.392	0.406		0.384	7.56
51)	2,4,5-Trichl	0.369	0.401	0.438	0.433	0.444	0.435	0.445		0.424	6.68
52)	2-Fluorobiph	1.530	1.522	1.507	1.523	1.537	1.491	1.591		1.529	2.06
53)	2-Chloronaph	1.222	1.229	1.212	1.177	1.183	1.182	1.281		1.212	3.03
54)	Biphenyl	1.692	1.699	1.663	1.598	1.598	1.617	1.763		1.662	3.70
55)	2-Nitroanili	0.239	0.305	0.341	0.297	0.299	0.317	0.349		0.307	11.70
56)	Dimethylphth	1.184	1.256	1.289	1.220	1.250	1.255	1.331		1.255	3.72
57)	Acenaphthyle	1.782	1.899	1.991	1.912	1.961	1.944	2.056		1.935	4.41
58)	2,6-Dinitrot	0.162	0.221	0.278	0.279	0.285	0.275	0.267		0.252	17.95
	----- Linear regression ----- Coefficient = 0.9997										
	Response Ratio = -0.00705 + 0.28508 *A										
59)	3-Nitroanili	0.228	0.287	0.337	0.309	0.316	0.322	0.341		0.306	12.65
60)	Acenaphthene	1.241	1.243	1.226	1.177	1.209	1.203	1.305		1.229	3.31
61)	2,4-Dinitrop	0.064	0.137	0.168	0.175	0.151	0.108			0.134	31.28
	----- Linear regression ----- Coefficient = 0.9975										
	Response Ratio = -0.04432 + 0.17979 *A										
62)	4-Nitropheno	0.141	0.170	0.165	0.170	0.173	0.167			0.164	7.28
63)	Dibenzofuran	1.716	1.734	1.674	1.597	1.629	1.642	1.786		1.683	3.94
64)	2,4-Dinitrot	0.217	0.315	0.381	0.364	0.378	0.371	0.371		0.342	17.45
	----- Linear regression ----- Coefficient = 0.9993										
	Response Ratio = -0.00471 + 0.37513 *A										
65)	2,3,4,6-Tetr	0.220	0.284	0.331	0.325	0.339	0.329	0.328		0.308	13.81
66)	Diethylphtha	1.160	1.241	1.267	1.167	1.195	1.227	1.320		1.225	4.67
67)	Fluorene	1.288	1.341	1.341	1.259	1.288	1.303	1.411		1.319	3.81
68)	4-Chlorophen	0.671	0.674	0.682	0.655	0.675	0.662	0.710		0.676	2.56
69)	4-Nitroanili	0.211	0.286	0.327	0.271	0.267	0.303	0.328		0.285	14.31
70)	I Phenanthrene-d10	----------ISTD----------									
71)	4,6-Dinitro-	0.058	0.106	0.132	0.135	0.117	0.089			0.106	27.52
	----- Linear regression ----- Coefficient = 0.9973										
	Response Ratio = -0.01635 + 0.13942 *A										
72)	Atrazine	0.096	0.121	0.132	0.110	0.106	0.118	0.134		0.117	11.75
73)	n-Nitrosodip	0.533	0.563	0.569	0.556	0.562	0.559	0.595		0.563	3.24
74)	1,2-Diphenyl	0.749	0.772	0.742	0.687	0.716	0.705	0.805		0.739	5.51
75)	2,4,6-Tribro	0.068	0.082	0.089	0.094	0.097	0.090	0.087		0.087	11.21
76)	4-Bromopheny	0.188	0.205	0.209	0.217	0.224	0.210	0.216		0.210	5.52
77)	Hexachlorobe	0.205	0.210	0.205	0.214	0.222	0.209	0.217		0.212	2.88
78)	Pentachlorop	0.146	0.112	0.144	0.155	0.161	0.154	0.136		0.144	11.48
79)	Phenanthrene	1.214	1.210	1.167	1.133	1.169	1.153	1.250		1.185	3.43
80)	Anthracene	1.149	1.228	1.207	1.174	1.202	1.192	1.273		1.204	3.31
81)	Carbazole	0.922	0.993	0.977	0.830	0.810	0.904	1.039		0.925	9.16
82)	Di-n-butylph	0.793	1.063	1.144	1.089	1.114	1.128	1.142		1.068	11.66
83)	Fluoranthene	0.989	1.189	1.170	1.113	1.161	1.181	1.211		1.145	6.56
84)	Octadecane	0.384	0.431	0.420	0.399	0.391	0.397	0.447		0.410	5.63
85)	I Chrysene-d12	----------ISTD----------									
86)	Benzidine	0.127	0.189	0.231	0.165	0.153	0.205	0.221		0.184	20.65
87)	Pyrene	1.205	1.323	1.315	1.313	1.314	1.291	1.357		1.303	3.63

Initial Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2491-ICC2491
Lab FileID: F46940.D

```
 88) Terphenyl-d1 0.815 0.908 0.914 0.919 0.929 0.895 0.934        0.902   4.48
 89) Butylbenzylp 0.262 0.425 0.485 0.479 0.479 0.474 0.464        0.438  18.29
            ----- Linear regression -----  Coefficient =  0.9999
              Response Ratio = -0.00607 + 0.48182 *A

 90) Butyl steara 0.156 0.249 0.280 0.251 0.236 0.255 0.280        0.244  17.27
            ----- Linear regression -----  Coefficient =  0.9966
              Response Ratio = 0.00901 + 0.23987 *A

 91) Benzo[a]anth 0.979 1.142 1.155 1.163 1.184 1.156 1.192        1.139   6.39
 92) 3,3'-Dichlor 0.256 0.313 0.363 0.337 0.320 0.363 0.347        0.329  11.37
 93) Chrysene     1.181 1.187 1.162 1.139 1.156 1.128 1.241        1.171   3.20
 94) bis(2-Ethylh 0.337 0.552 0.629 0.624 0.611 0.608 0.610        0.567  18.49
            ----- Linear regression -----  Coefficient =  0.9997
              Response Ratio = -0.00518 + 0.61819 *A


 95) I   Perylene-d12          ----------------ISTD--------------------
 96) Di-n-octylph 0.477 1.060 1.414 1.439 1.419 1.399 1.238        1.206  28.98
            ----- Linear regression -----  Coefficient =  0.9998
              Response Ratio = -0.04348 + 1.44516 *A

 97) Benzo[b]fluo 1.370 1.553 1.746 1.846 1.780 1.723 1.725        1.677   9.67
 98) Benzo[k]fluo 1.675 1.822 1.811 1.684 1.851 1.848 1.856        1.792   4.40
 99) Benzo[a]pyre 1.196 1.482 1.592 1.630 1.689 1.639 1.604        1.547  10.81
100) Indeno[1,2,3 1.014 1.239 1.441 1.630 1.647 1.570 1.428        1.424  16.11
            ----- Linear regression -----  Coefficient =  0.9994
              Response Ratio = -0.07280 + 1.66364 *A

101) Dibenz(a,h)a 0.683 0.923 1.099 1.275 1.286 1.210 1.065        1.077  20.06
            ----- Linear regression -----  Coefficient =  0.9991
              Response Ratio = -0.06856 + 1.30299 *A

102) Dibenz[a,h]a 0.878 1.058 1.255 1.421 1.441 1.366 1.245        1.238  16.60
            ----- Linear regression -----  Coefficient =  0.9993
              Response Ratio = -0.06637 + 1.45402 *A

103) 7,12-Dimethy 0.544 0.664 0.774 0.770 0.796 0.777 0.756        0.726  12.53
104) 3-Methylchol                                                 0.000# -1.00
105) Benzo[g,h,i] 0.826 1.008 1.164 1.358 1.368 1.309 1.162        1.171  17.04
            ----- Linear regression -----  Coefficient =  0.9992
              Response Ratio = -0.06719 + 1.38666 *A

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

          MF2491.M          Mon Dec 20 16:50:35 2004    RPT1
```

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2508-CC2491
Lab FileID: F47469.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF2508\F47469.D Vial: 2
Acq On : 8 Jan 2005 9:13 am Operator: NINAP
Sample : CC2491-25 Inst : MSF
Misc : OP19067,EF2508 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	6.30
2	t	1,4-Dioxane	0.676	0.576	14.8	91	0.00	2.57
3	t	Pyridine	1.640	1.564	4.6	96	0.00	2.89
4	t	N-Nitrosodimethylamine	0.538	0.631	-17.3	123	0.00	2.87
5	S	2-Fluorophenol	1.395	1.386	0.6	102	0.00	4.33
6	t	Indene	2.466	2.576	-4.5	106	0.00	6.83
7	t	Cumene	3.153	3.251	-3.1	106	0.00	5.02
8	S	Phenol-d5	1.679	1.673	0.4	101	0.00	5.79
9	t	Phenol	1.833	1.938	-5.7	104	0.00	5.81
10	t	Aniline	2.110	1.956	7.3	91	0.00	5.79
11	t	bis(2-Chloroethyl)ether	1.312	1.219	7.1	94	0.00	5.89
12	t	Benzaldehyde	0.351	0.605	-72.4#	106	0.00	5.55
13	t	2-Chlorophenol	1.399	1.444	-3.2	104	0.00	6.00
14	t	Decane	1.280	1.424	-11.2	113	0.00	6.07
15	t	1,3-Dichlorobenzene	1.554	1.554	0.0	102	0.00	6.24
16	t	1,4-Dichlorobenzene	1.588	1.658	-4.4	108	0.00	6.33
17	t	Benzyl alcohol	0.903	0.886	1.9	97	0.00	6.63
18	t	1,2-Dichlorobenzene	1.470	1.513	-2.9	105	0.00	6.68
19	t	Acetophenone	1.880	1.980	-5.3	106	0.00	7.14
20	t	2-Methylphenol	1.250	1.213	3.0	97	0.00	6.92
21	t	2,2'-oxybis(1-Chloropropa	0.450	0.453	-0.7	103	0.00	6.93
22	t	3&4-Methylphenol	1.308	1.319	-0.8	99	0.00	7.22
23	t	n-Nitroso-di-n-propylamin	0.780	0.835	-7.1	105	0.00	7.20
24	t	Hexachloroethane	0.512	0.565	-10.4	112	0.00	7.28
25	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	8.92
26	S	Nitrobenzene-d5	0.379	0.416	-9.8	111	0.00	7.44
27	t	Nitrobenzene	0.175	0.181	-3.4	104	0.00	7.48
28	t	Quinoline	0.669	0.681	-1.8	103	0.00	9.73
29	t	Isophorone	0.622	0.668	-7.4	108	0.00	7.97
30	t	2-Nitrophenol	0.171	0.197	-15.2	112	0.00	8.15
31	t	2,4-Dimethylphenol	0.332	0.359	-8.1	107	0.00	8.33
32	t	Benzoic acid	0.236	0.181	23.3#	79	0.00	8.63
33	t	bis(2-Chloroethoxy)methan	0.386	0.388	-0.5	102	0.00	8.50
34	t	2,4-Dichlorophenol	0.267	0.284	-6.4	106	0.00	8.70
35		1,3,5-Trichlorobenzene	0.337	0.347	-3.0	108	0.00	8.16
36	t	1,2,4-Trichlorobenzene	0.324	0.338	-4.3	109	0.00	8.84
37		1,2,3-Trichlorobenzene	0.310	0.324	-4.5	109	0.00	9.37
38	t	alpha-Terpineol	0.265	0.298	-12.5	112	0.00	9.01
39	t	Naphthalene	1.061	1.082	-2.0	106	0.00	8.96
40	t	4-Chloroaniline	0.423	0.411	2.8	96	0.00	9.18
41	t	2,3-Dichloroaniline	0.323	0.345	-6.8	107	0.00	9.30

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2508-CC2491
Lab FileID: F47469.D

42	t	Caprolactam	0.124	0.132	-6.5	100	0.00	9.90
43	t	Hexachlorobutadiene	0.185	0.202	-9.2	114	0.00	9.40
44	t	4-Chloro-3-methylphenol	0.278	0.312	-12.2	110	0.00	10.40
45	t	2-Methylnaphthalene	0.683	0.721	-5.6	107	0.00	10.54
46	t	1-Methylnaphthalene	0.662	0.690	-4.2	106	0.00	10.78
47	t	Dimethylnaphthalene	0.580	0.628	-8.3	109	0.00	12.01
48	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	13.00
			True	Calc.	% Drift			
49	t	Hexachlorocyclopentadiene	50.000	46.321	7.4	109	0.00	11.08
			AvgRF	CCRF	% Dev			
50	t	2,4,6-Trichlorophenol	0.384	0.399	-3.9	110	0.00	11.31
51	t	2,4,5-Trichlorophenol	0.424	0.433	-2.1	108	0.00	11.43
52	S	2-Fluorobiphenyl	1.529	1.526	0.2	111	0.00	11.48
53	t	2-Chloronaphthalene	1.212	1.204	0.7	109	0.00	11.65
54	t	Biphenyl	1.662	1.642	1.2	108	0.00	11.66
55	t	2-Nitroaniline	0.307	0.381	-24.1#	122	0.00	12.03
56	t	Dimethylphthalate	1.255	1.291	-2.9	110	0.00	12.58
57	t	Acenaphthylene	1.935	1.971	-1.9	108	0.00	12.63
			True	Calc.	% Drift			
58	t	2,6-Dinitrotoluene	25.000	27.049	-8.2	117	0.00	12.71
			AvgRF	CCRF	% Dev			
59	t	3-Nitroaniline	0.306	0.321	-4.9	104	0.00	13.03
60	t	Acenaphthene	1.229	1.227	0.2	110	0.00	13.07
			True	Calc.	% Drift			
61	t	2,4-Dinitrophenol	50.000	57.114	-14.2	136	0.00	13.28
			AvgRF	CCRF	% Dev			
62	t	4-Nitrophenol	0.164	0.161	1.8	104	0.00	13.64
63	t	Dibenzofuran	1.683	1.694	-0.7	111	0.00	13.46
			True	Calc.	% Drift			
64	t	2,4-Dinitrotoluene	25.000	27.391	-9.6	116	0.00	13.64
			AvgRF	CCRF	% Dev			
65		2,3,4,6-Tetrachlorophenol	0.308	0.337	-9.4	112	0.00	13.91
66	t	Diethylphthalate	1.225	1.286	-5.0	111	0.00	14.28
67	t	Fluorene	1.319	1.351	-2.4	110	0.00	14.28
68	t	4-Chlorophenyl-phenylethe	0.676	0.694	-2.7	112	0.00	14.34
69	t	4-Nitroaniline	0.285	0.273	4.2	91	0.00	14.50
70	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	16.48
			True	Calc.	% Drift			
71	t	4,6-Dinitro-2-methylpheno	25.000	28.693	-14.8	141	0.00	14.59
			AvgRF	CCRF	% Dev			
72	t	Atrazine	0.117	0.114	2.6	96	0.00	16.07
73	t	n-Nitrosodiphenylamine	0.563	0.543	3.6	107	0.00	14.66
74	t	1,2-Diphenylhydrazine	0.739	0.748	-1.2	113	0.00	14.71
75	S	2,4,6-Tribromophenol	0.087	0.094	-8.0	118	0.00	14.91
76	t	4-Bromophenyl-phenylether	0.210	0.212	-1.0	114	0.00	15.48
77	t	Hexachlorobenzene	0.212	0.214	-0.9	116	0.00	15.78
78	t	Pentachlorophenol	0.144	0.132	8.3	103	0.00	16.25
79	t	Phenanthrene	1.185	1.120	5.5	107	0.00	16.54

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2508-CC2491
Lab FileID: F47469.D

80	t	Anthracene	1.204	1.154	4.2	107	0.00	16.64
81	t	Carbazole	0.925	0.897	3.0	103	0.00	17.10
82	t	Di-n-butylphthalate	1.068	1.100	-3.0	108	0.00	18.19
83	t	Fluoranthene	1.145	1.160	-1.3	111	0.00	19.27
84	t	Octadecane	0.410	0.454	-10.7	121	0.00	16.48
85	I	Chrysene-d12	1.000	1.000	0.0	113	0.00	22.03
86	t	Benzidine	0.184	0.109	40.8#	53	0.00	19.65
87	t	Pyrene	1.303	1.259	3.4	108	0.00	19.71
88	S	Terphenyl-d14	0.902	0.904	-0.2	112	0.00	20.13
			True	Calc.	% Drift			
89	t	Butylbenzylphthalate	25.000	24.213	3.1	106	0.00	21.18
90		Butyl stearate	25.000	26.590	-6.4	109	0.00	21.29
			AvgRF	CCRF	% Dev			
91	t	Benzo[a]anthracene	1.139	1.138	0.1	111	0.00	22.00
92	t	3,3'-Dichlorobenzidine	0.329	0.344	-4.6	107	0.00	22.03
93	t	Chrysene	1.171	1.143	2.4	111	0.00	22.07
			True	Calc.	% Drift			
94	t	bis(2-Ethylhexyl)phthalat	25.000	23.048	7.8	101	0.00	22.28
			AvgRF	CCRF	% Dev			
95	I	Perylene-d12	1.000	1.000	0.0	111	0.00	24.35
			True	Calc.	% Drift			
96	t	Di-n-octylphthalate	25.000	23.034	7.9	99	0.00	23.26
			AvgRF	CCRF	% Dev			
97	t	Benzo[b]fluoranthene	1.677	1.780	-6.1	113	0.00	23.76
98	t	Benzo[k]fluoranthene	1.792	1.790	0.1	110	0.00	23.80
99	t	Benzo[a]pyrene	1.547	1.612	-4.2	112	0.00	24.26
			True	Calc.	% Drift			
100	t	Indeno[1,2,3-cd]pyrene	25.000	24.156	3.4	115	0.00	26.33
101	t	Dibenz(a,h)acridine	25.000	23.837	4.7	114	0.00	25.87
102	t	Dibenz[a,h]anthracene	25.000	23.729	5.1	113	0.00	26.36
			AvgRF	CCRF	% Dev			
103	t	7,12-Dimethylbenz(a)anthr	0.726	0.710	2.2	102	0.00	23.79
104	t	3-Methylcholanthrene		----------NA----------				
			True	Calc.	% Drift			
105	t	Benzo[g,h,i]perylene	25.000	24.439	2.2	119	0.00	26.89

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

F47469.D MF2491.M Sat Jan 08 13:01:11 2005 RPT1

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2509-CC2491
Lab FileID: F47510.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF2509\F47510.D Vial: 2
Acq On : 10 Jan 2005 9:20 am Operator: NINAP
Sample : CC2491-25 Inst : MSF
Misc : OP19067,EF2509 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	0.00	6.30
2	t	1,4-Dioxane	0.676	0.625	7.5	119	-0.12	2.45
3	t	Pyridine	1.640	1.541	6.0	114	-0.11	2.78
4	t	N-Nitrosodimethylamine	0.538	0.593	-10.2	139	-0.09	2.78
5	S	2-Fluorophenol	1.395	1.376	1.4	122	0.00	4.33
6	t	Indene	2.466	2.566	-4.1	126	0.00	6.83
7	t	Cumene	3.153	3.320	-5.3	130	0.00	5.02
8	S	Phenol-d5	1.679	1.619	3.6	117	-0.01	5.78
9	t	Phenol	1.833	1.898	-3.5	123	0.00	5.80
10	t	Aniline	2.110	1.749	17.1	98	0.00	5.79
11	t	bis(2-Chloroethyl)ether	1.312	1.489	-13.5	138	0.00	5.89
12	t	Benzaldehyde	0.351	0.623	-77.5#	131	0.00	5.55
13	t	2-Chlorophenol	1.399	1.424	-1.8	123	0.00	5.99
14	t	Decane	1.280	1.507	-17.7	143	0.00	6.07
15	t	1,3-Dichlorobenzene	1.554	1.549	0.3	122	0.00	6.23
16	t	1,4-Dichlorobenzene	1.588	1.636	-3.0	128	0.00	6.33
17	t	Benzyl alcohol	0.903	0.866	4.1	114	0.00	6.64
18	t	1,2-Dichlorobenzene	1.470	1.536	-4.5	128	0.00	6.68
19	t	Acetophenone	1.880	1.961	-4.3	125	0.00	7.14
20	t	2-Methylphenol	1.250	1.234	1.3	118	0.00	6.92
21	t	2,2'-oxybis(1-Chloropropa	0.450	0.467	-3.8	127	0.00	6.93
22	t	3&4-Methylphenol	1.308	1.339	-2.4	120	0.00	7.22
23	t	n-Nitroso-di-n-propylamin	0.780	0.881	-12.9	133	0.00	7.20
24	t	Hexachloroethane	0.512	0.557	-8.8	132	0.00	7.28
25	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	8.92
26	S	Nitrobenzene-d5	0.379	0.416	-9.8	131	0.00	7.44
27	t	Nitrobenzene	0.175	0.182	-4.0	123	0.00	7.48
28	t	Quinoline	0.669	0.687	-2.7	122	0.01	9.74
29	t	Isophorone	0.622	0.697	-12.1	133	0.00	7.97
30	t	2-Nitrophenol	0.171	0.192	-12.3	129	0.00	8.15
31	t	2,4-Dimethylphenol	0.332	0.358	-7.8	126	0.00	8.32
32	t	Benzoic acid	0.236	0.192	18.6	99	0.02	8.65
33	t	bis(2-Chloroethoxy)methan	0.386	0.400	-3.6	124	0.00	8.50
34	t	2,4-Dichlorophenol	0.267	0.285	-6.7	126	0.00	8.70
35		1,3,5-Trichlorobenzene	0.337	0.356	-5.6	131	0.00	8.17
36	t	1,2,4-Trichlorobenzene	0.324	0.344	-6.2	132	0.00	8.84
37		1,2,3-Trichlorobenzene	0.310	0.333	-7.4	132	0.00	9.37
38	t	alpha-Terpineol	0.265	0.312	-17.7	139	0.00	9.01
39	t	Naphthalene	1.061	1.085	-2.3	126	0.00	8.96
40	t	4-Chloroaniline	0.423	0.368	13.0	102	0.00	9.19
41	t	2,3-Dichloroaniline	0.323	0.357	-10.5	131	0.00	9.30

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2509-CC2491
Lab FileID: F47510.D

42	t	Caprolactam	0.124	0.143	-15.3	128	0.02	9.92
43	t	Hexachlorobutadiene	0.185	0.208	-12.4	139	0.00	9.40
44	t	4-Chloro-3-methylphenol	0.278	0.313	-12.6	130	0.00	10.40
45	t	2-Methylnaphthalene	0.683	0.732	-7.2	128	0.00	10.54
46	t	1-Methylnaphthalene	0.662	0.728	-10.0	132	0.00	10.78
47	t	Dimethylnaphthalene	0.580	0.645	-11.2	132	0.00	12.01
48	I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00	13.01
			True	Calc.	% Drift			
49	t	Hexachlorocyclopentadiene	50.000	41.968	16.1	119	0.00	11.08
			AvgRF	CCRF	% Dev			
50	t	2,4,6-Trichlorophenol	0.384	0.386	-0.5	130	0.00	11.31
51	t	2,4,5-Trichlorophenol	0.424	0.433	-2.1	132	0.00	11.43
52	S	2-Fluorobiphenyl	1.529	1.500	1.9	133	0.00	11.48
53	t	2-Chloronaphthalene	1.212	1.172	3.3	129	0.00	11.65
54	t	Biphenyl	1.662	1.601	3.7	128	0.00	11.67
55	t	2-Nitroaniline	0.307	0.367	-19.5	143	0.00	12.04
56	t	Dimethylphthalate	1.255	1.301	-3.7	134	0.00	12.58
57	t	Acenaphthylene	1.935	1.940	-0.3	130	0.00	12.63
			True	Calc.	% Drift			
58	t	2,6-Dinitrotoluene	25.000	26.485	-5.9	140	0.00	12.71
			AvgRF	CCRF	% Dev			
59	t	3-Nitroaniline	0.306	0.279	8.8	110	0.01	13.04
60	t	Acenaphthene	1.229	1.209	1.6	131	0.00	13.07
			True	Calc.	% Drift			
61	t	2,4-Dinitrophenol	50.000	51.973	-3.9	147	0.00	13.28
			AvgRF	CCRF	% Dev			
62	t	4-Nitrophenol	0.164	0.150	8.5	117	0.00	13.63
63	t	Dibenzofuran	1.683	1.635	2.9	130	0.00	13.46
			True	Calc.	% Drift			
64	t	2,4-Dinitrotoluene	25.000	26.416	-5.7	136	0.00	13.64
			AvgRF	CCRF	% Dev			
65		2,3,4,6-Tetrachlorophenol	0.308	0.334	-8.4	135	0.00	13.91
66	t	Diethylphthalate	1.225	1.322	-7.9	139	0.00	14.28
67	t	Fluorene	1.319	1.322	-0.2	131	0.00	14.28
68	t	4-Chlorophenyl-phenylethe	0.676	0.675	0.1	132	0.00	14.34
69	t	4-Nitroaniline	0.285	0.256	10.2	104	0.02	14.51
70	I	Phenanthrene-d10	1.000	1.000	0.0	132	0.00	16.49
			True	Calc.	% Drift			
71	t	4,6-Dinitro-2-methylpheno	25.000	27.528	-10.1	159	0.01	14.60
			AvgRF	CCRF	% Dev			
72	t	Atrazine	0.117	0.118	-0.9	118	0.00	16.07
73	t	n-Nitrosodiphenylamine	0.563	0.545	3.2	127	0.00	14.66
74	t	1,2-Diphenylhydrazine	0.739	0.746	-0.9	133	0.00	14.71
75	S	2,4,6-Tribromophenol	0.087	0.094	-8.0	138	0.00	14.91
76	t	4-Bromophenyl-phenylether	0.210	0.217	-3.3	137	0.00	15.48
77	t	Hexachlorobenzene	0.212	0.228	-7.5	147	0.00	15.78
78	t	Pentachlorophenol	0.144	0.141	2.1	129	0.00	16.26
79	t	Phenanthrene	1.185	1.127	4.9	128	0.00	16.54

Continuing Calibration Summary

Job Number: N86261
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG-Salem, Artificial Island, Salem, NJ

Sample: EF2509-CC2491
Lab FileID: F47510.D

80	t	Anthracene	1.204	1.191	1.1	130	0.00	16.64
81	t	Carbazole	0.925	0.841	9.1	114	0.01	17.11
82	t	Di-n-butylphthalate	1.068	1.221	-14.3	141	0.00	18.19
83	t	Fluoranthene	1.145	1.199	-4.7	135	0.00	19.27
84	t	Octadecane	0.410	0.482	-17.6	151	0.00	16.48
85	I	Chrysene-d12	1.000	1.000	0.0	138	0.00	22.03
86	t	Benzidine	0.184	0.081	56.0#	48	0.02	19.67
87	t	Pyrene	1.303	1.281	1.7	134	0.00	19.72
88	S	Terphenyl-d14	0.902	0.924	-2.4	139	0.00	20.14
			True	Calc.	% Drift			
89	t	Butylbenzylphthalate	25.000	26.473	-5.9	142	0.00	21.18
90		Butyl stearate	25.000	28.834	-15.3	143	0.00	21.29
			AvgRF	CCRF	% Dev			
91	t	Benzo[a]anthracene	1.139	1.142	-0.3	136	0.00	22.00
92	t	3,3'-Dichlorobenzidine	0.329	0.312	5.2	118	0.01	22.04
93	t	Chrysene	1.171	1.162	0.8	138	0.00	22.08
			True	Calc.	% Drift			
94	t	bis(2-Ethylhexyl)phthalat	25.000	26.593	-6.4	142	0.00	22.28
			AvgRF	CCRF	% Dev			
95	I	Perylene-d12	1.000	1.000	0.0	132	0.00	24.36
			True	Calc.	% Drift			
96	t	Di-n-octylphthalate	25.000	28.270	-13.1	146	0.00	23.26
			AvgRF	CCRF	% Dev			
97	t	Benzo[b]fluoranthene	1.677	1.781	-6.2	134	0.00	23.76
98	t	Benzo[k]fluoranthene	1.792	1.805	-0.7	131	0.00	23.80
99	t	Benzo[a]pyrene	1.547	1.609	-4.0	133	0.00	24.26
			True	Calc.	% Drift			
100	t	Indeno[1,2,3-cd]pyrene	25.000	25.239	-1.0	143	0.00	26.34
101	t	Dibenz(a,h)acridine	25.000	25.163	-0.7	144	0.00	25.88
102	t	Dibenz[a,h]anthracene	25.000	25.119	-0.5	142	0.01	26.37
			AvgRF	CCRF	% Dev			
103	t	7,12-Dimethylbenz(a)anthr	0.726	0.703	3.2	120	0.00	23.79
104	t	3-Methylcholanthrene		----------NA----------				
			True	Calc.	% Drift			
105	t	Benzo[g,h,i]perylene	25.000	24.991	0.0	145	0.01	26.90

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

F47469.D MF2491.M Mon Jan 10 10:00:14 2005 RPT1

Data File : C:\MSDCHEM\1\DATA\EF2509\F47512.D Vial: 4
Acq On : 10 Jan 2005 10:31 am Operator: NINAP
Sample : N86261-1 Inst : MSF
Misc : OP19045,EF2509,940 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 11:12:14 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	297550	40.00	ppb	0.00
25) Naphthalene-d8	8.91	136	1216250	40.00	ppb	0.00
48) Acenaphthene-d10	13.00	164	663970	40.00	ppb	0.00
70) Phenanthrene-d10	16.48	188	1182796	40.00	ppb	0.00
85) Chrysene-d12	22.03	240	1161702	40.00	ppb	0.00
95) Perylene-d12	24.35	264	734866	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.31	112	225765	21.75	ppb	-0.02
Spiked Amount 50.000			Recovery = 43.50%			
8) Phenol-d5	5.79	99	183381	14.68	ppb	0.00
Spiked Amount 50.000			Recovery = 29.36%			
26) Nitrobenzene-d5	7.44	82	439761	38.16	ppb	0.00
Spiked Amount 50.000			Recovery = 76.32%			
52) 2-Fluorobiphenyl	11.48	172	884815	34.87	ppb	0.00
Spiked Amount 50.000			Recovery = 69.74%			
75) 2,4,6-Tribromophenol	14.91	330	111837	43.55	ppb	0.00
Spiked Amount 50.000			Recovery = 87.10%			
88) Terphenyl-d14	20.13	244	1088136	41.54	ppb	0.00
Spiked Amount 50.000			Recovery = 83.08%			

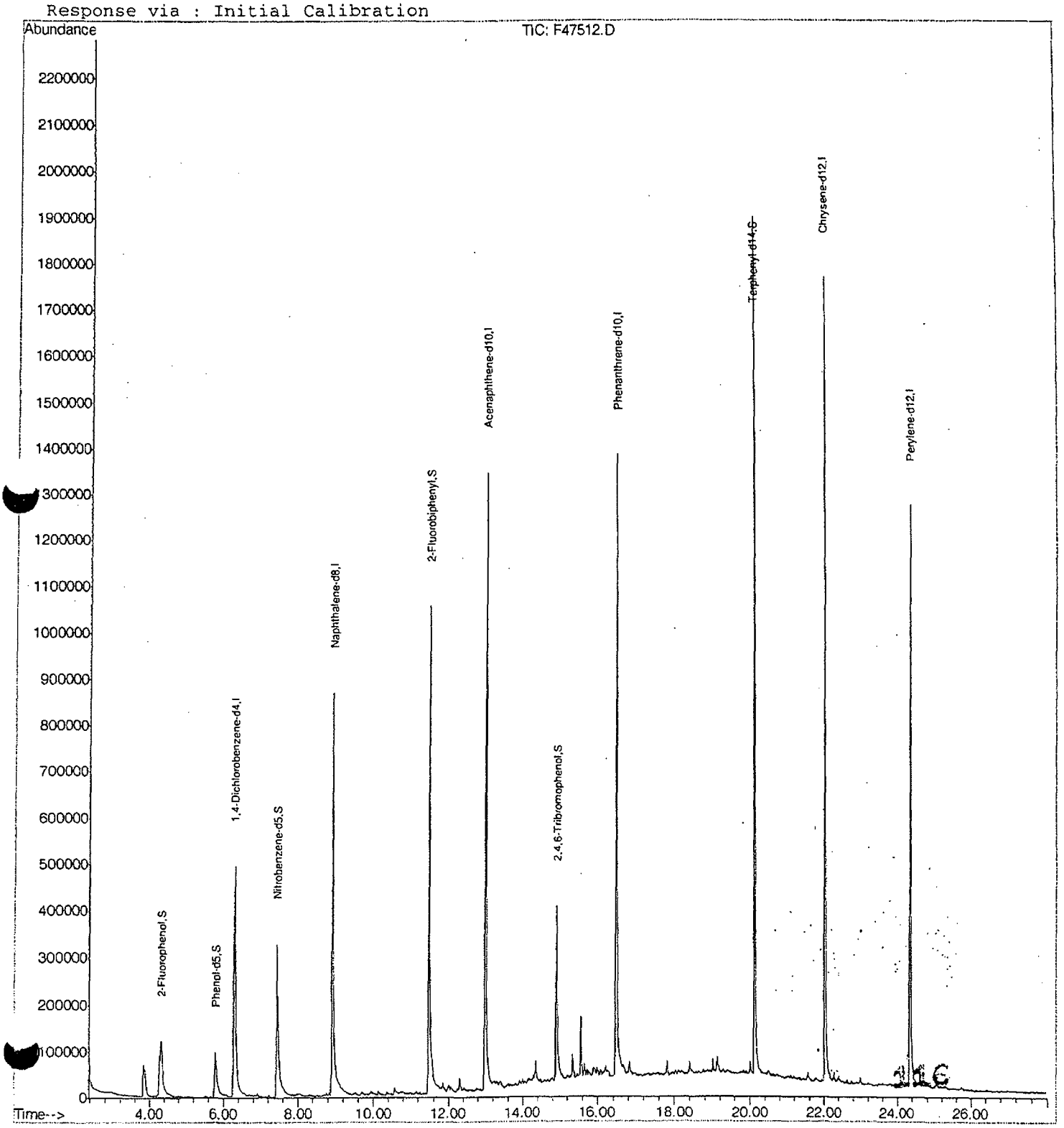
Target Compounds Qvalue

1/10/05

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F47512.D MF2491.M Mon Jan 10 11:13:25 2005 RPT1 Page

Data File : C:\MSDCHEM\1\DATA\EF2509\F47512.D Vial: 4
Acq On : 10 Jan 2005 10:31 am Operator: NINAP
Sample : N86261-1 Inst : MSF
Misc : OP19045,EF2509,940 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 11:13 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2509\F47513.D Vial: 5
Acq On : 10 Jan 2005 11:07 am Operator: NINAP
Sample : N86261-2 Inst : MSF
Misc : OP19045,EF2509,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 12:12:34 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	291001	40.00	ppb	0.00
25) Naphthalene-d8	8.92	136	1200521	40.00	ppb	0.00
48) Acenaphthene-d10	13.01	164	650226	40.00	ppb	0.00
70) Phenanthrene-d10	16.49	188	1152209	40.00	ppb	0.00
85) Chrysene-d12	22.03	240	1089300	40.00	ppb	0.00
95) Perylene-d12	24.35	264	660811	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	233505m	23.01	ppb	-0.01
Spiked Amount 50.000			Recovery =	46.02%		
8) Phenol-d5	5.79	99	192794	15.78	ppb	0.00
Spiked Amount 50.000			Recovery =	31.56%		
26) Nitrobenzene-d5	7.44	82	446357	39.24	ppb	0.00
Spiked Amount 50.000			Recovery =	78.48%		
52) 2-Fluorobiphenyl	11.48	172	909539	36.60	ppb	0.00
Spiked Amount 50.000			Recovery =	73.20%		
75) 2,4,6-Tribromophenol	14.91	330	124389	49.72	ppb	0.00
Spiked Amount 50.000			Recovery =	99.44%		
98) Terphenyl-d14	20.14	244	1138860	46.36	ppb	0.00
Spiked Amount 50.000			Recovery =	92.72%		
Target Compounds						Qvalue
39) Naphthalene	8.96	128	112424	3.53	ppb	97
45) 2-Methylnaphthalene	10.54	142	33095	1.61	ppb	98
60) Acenaphthene	13.07	153	11496m	0.58	ppb	
63) Dibenzofuran	13.46	168	17558	0.64	ppb	94
67) Fluorene	14.28	166	27862	1.30	ppb	99
83) Fluoranthene	19.27	202	29694	0.90	ppb	95
87) Pyrene	19.72	202	30572	0.86	ppb	97

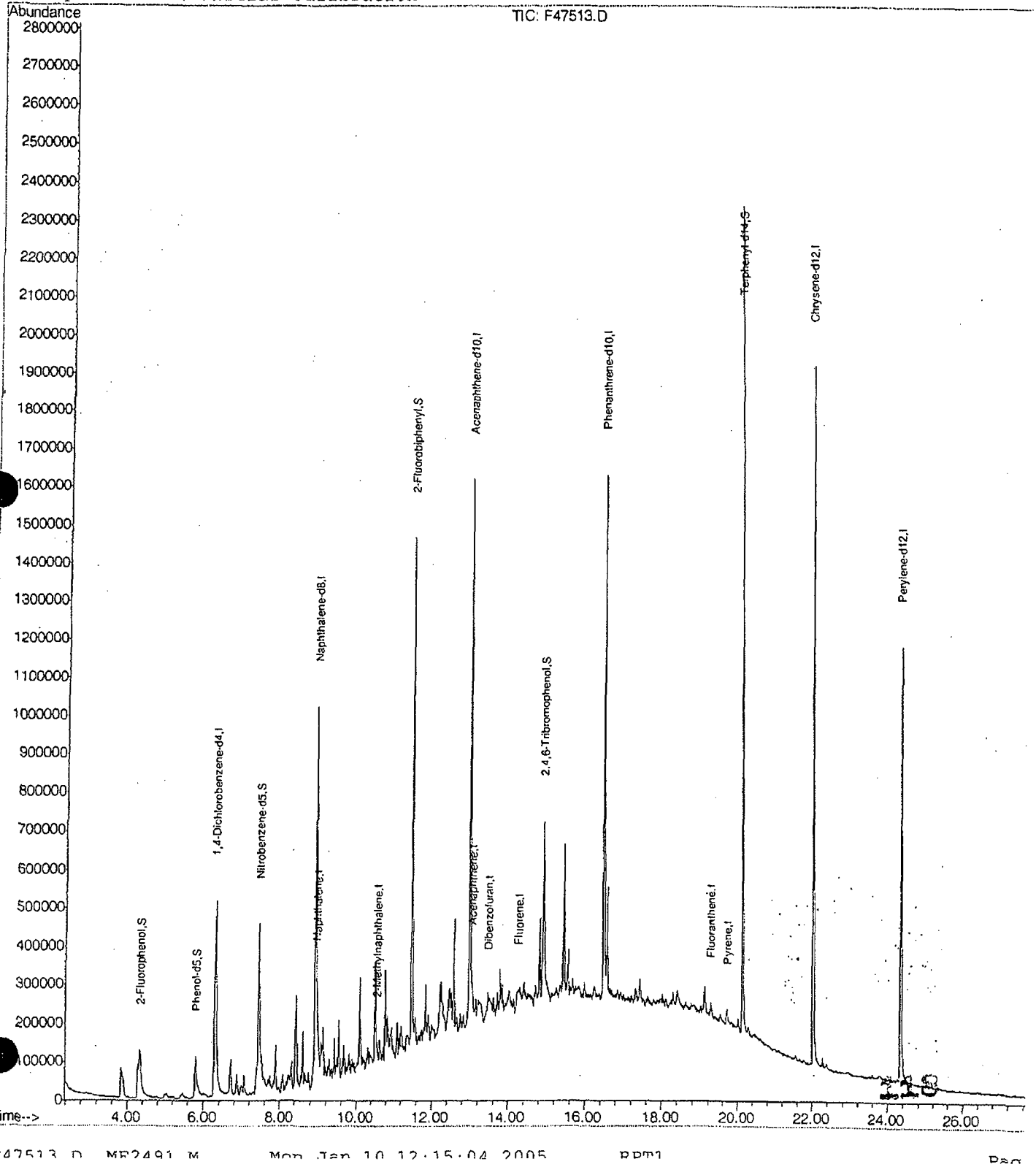
1/10/05

117

(#) = qualifier out of range (m) = manual integration (+) = signals summed

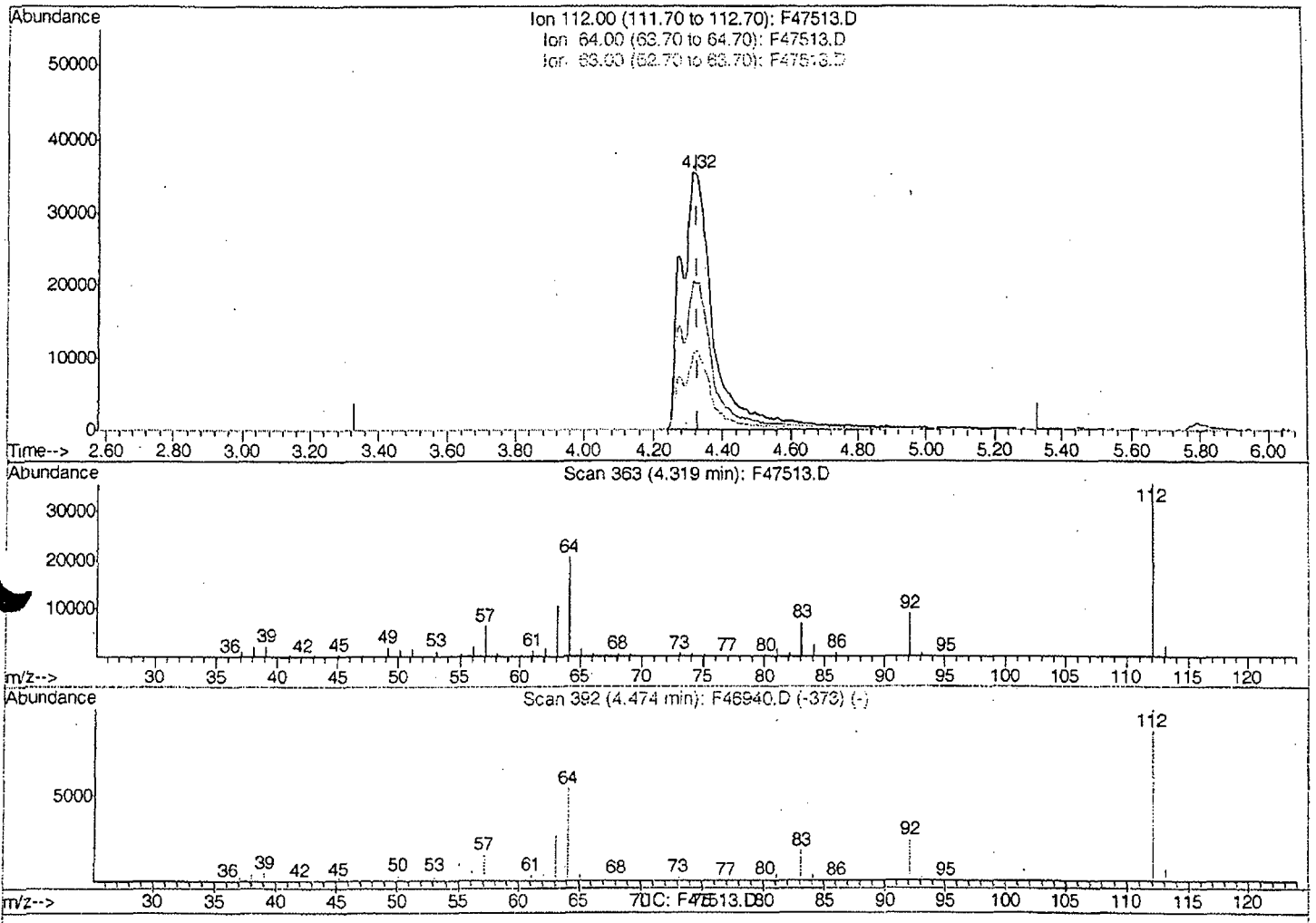
Data File : C:\MSDCHEM\1\DATA\EF2509\F47513.D Vial: 5
Acq On : 10 Jan 2005 11:07 am Operator: NINAP
Sample : N86261-2 Inst : MSF
Misc : OP19045,EF2509,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 12:14 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2509\F47513.D Vial: 5
Acq On : 10 Jan 2005 11:07 am Operator: NINAP
Sample : N86261-2 Inst : MSF
Misc : OP19045,EF2509,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 12:12 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Multiple Level Calibration



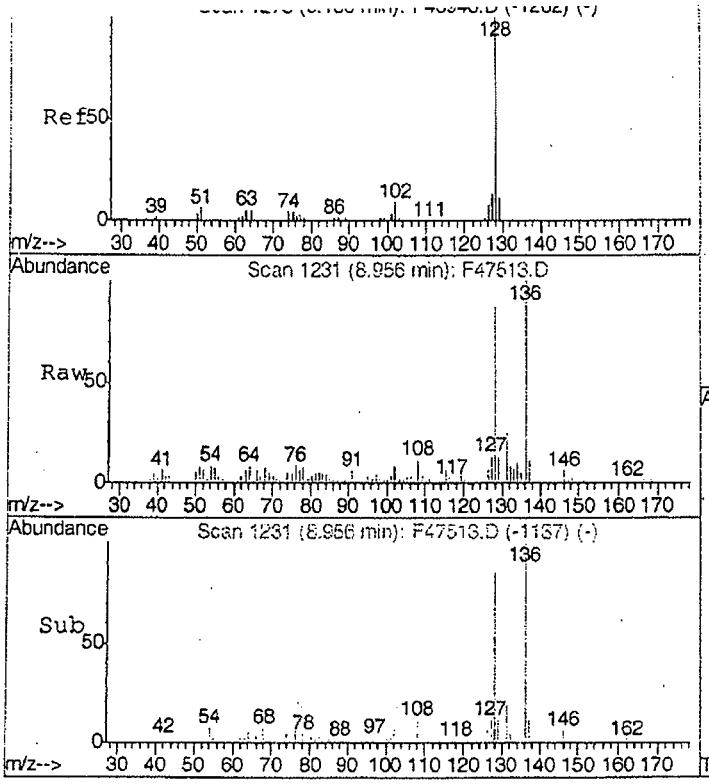
(5) 2-Fluorophenol (S)

4.32min (-0.011) 23.01ppb m

response 233505

Ion	Exp%	Act%
112.00	100	100
64.00	54.00	57.87
63.00	26.50	29.65
0.00	0.00	0.00

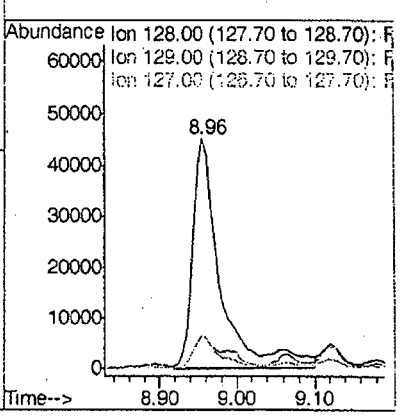
119

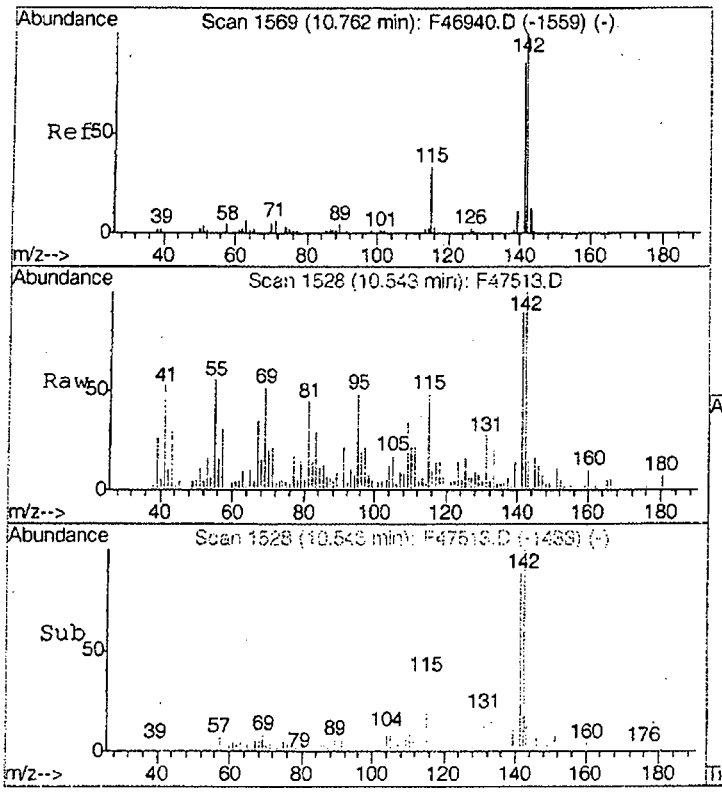


#39
Naphthalene
Concen: 3.53 ppb
RT: 8.96 min Scan# 1231
Delta R.T. 0.00 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:128 Resp: 112424

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	41.0
127	13.5	0.0	43.0

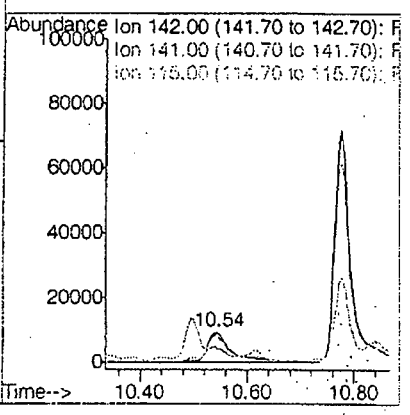


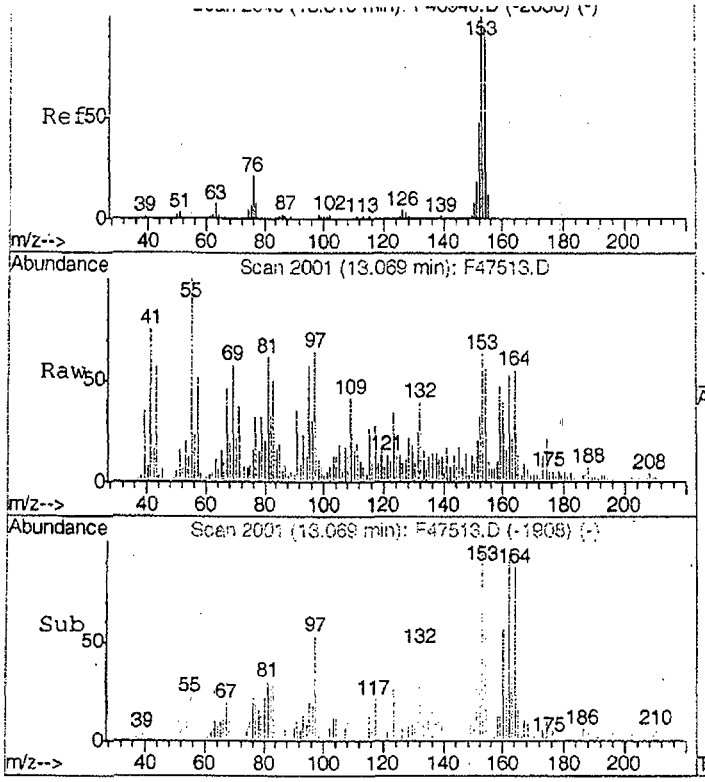


#45
2-Methylnaphthalene
Concen: 1.61 ppb
RT: 10.54 min Scan# 1528
Delta R.T. 0.01 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:142 Resp: 33095

Ion	Ratio	Lower	Upper
142	100		
141	86.4	55.0	115.0
115	34.9	2.8	62.8

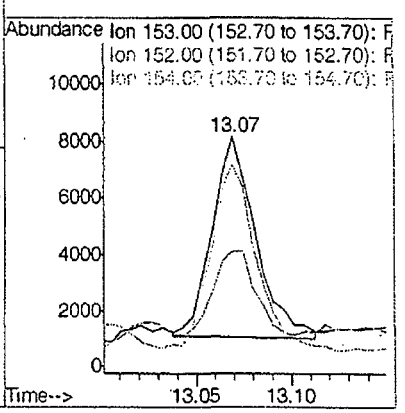


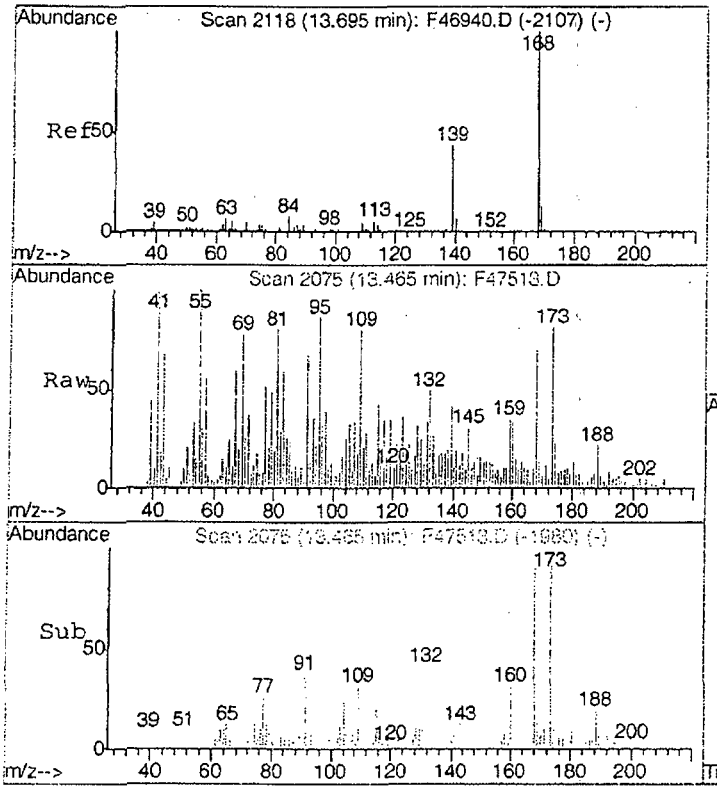


#60
Acenaphthene
Concen: 0.58 ppb m
RT: 13.07 min Scan# 2001
Delta R.T. -0.01 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:153 Resp: 11496

Ion	Ratio	Lower	Upper
153	100		
152	50.8	17.0	77.0
154	88.1	61.8	121.8

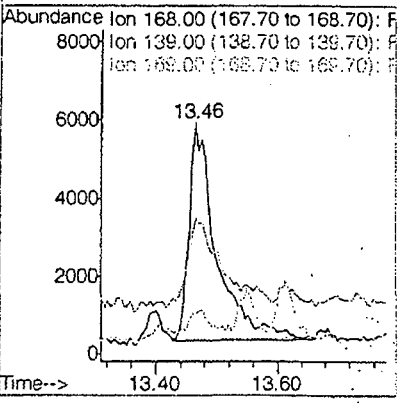


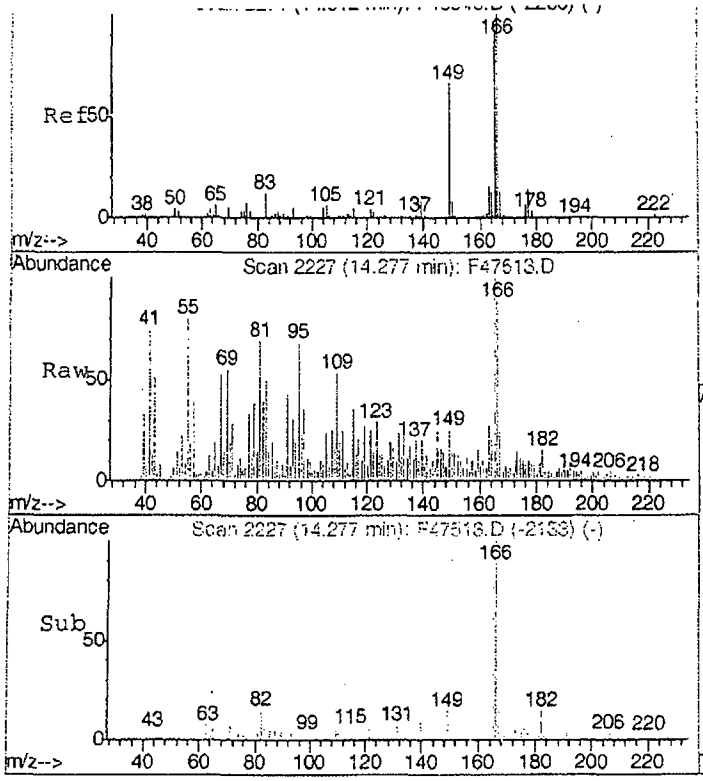


#63
Dibenzofuran
Concen: 0.64 ppb
RT: 13.46 min Scan# 2075
Delta R.T. 0.01 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:168 Resp: 17558

Ion	Ratio	Lower	Upper
168	100		
139	39.3	12.8	72.8
169	9.8	0.0	43.2

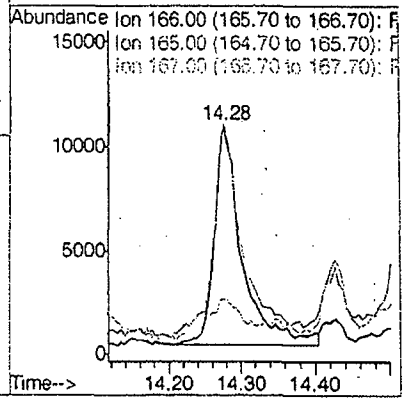


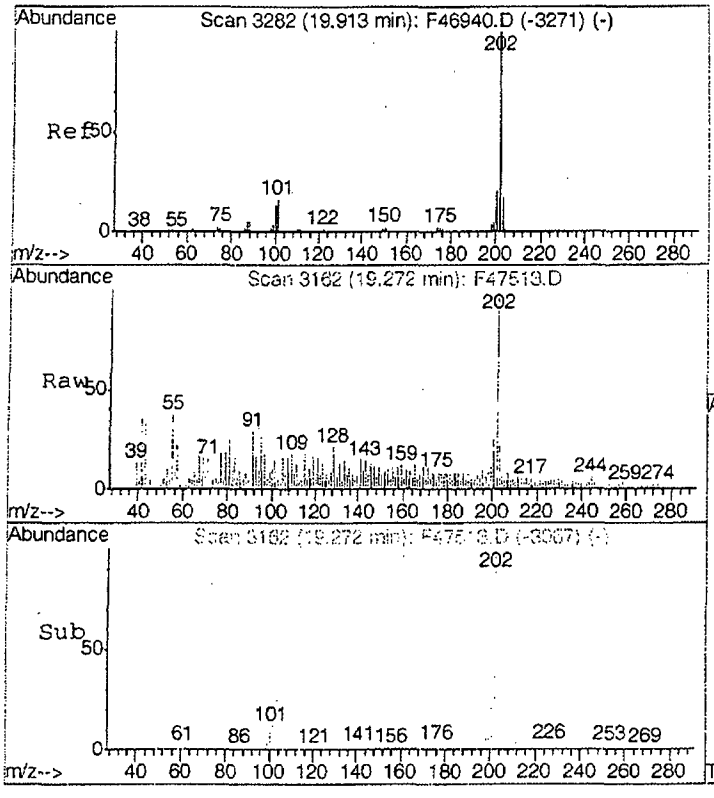


#67
Fluorene
Concen: 1.30 ppb
RT: 14.28 min Scan# 2227
Delta R.T. 0.00 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:166 Resp: 27862

Ion	Ratio	Lower	Upper
166	100		
165	92.0	61.7	121.7
167	14.7	0.0	43.2

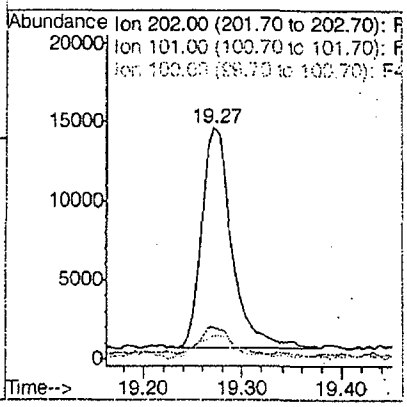


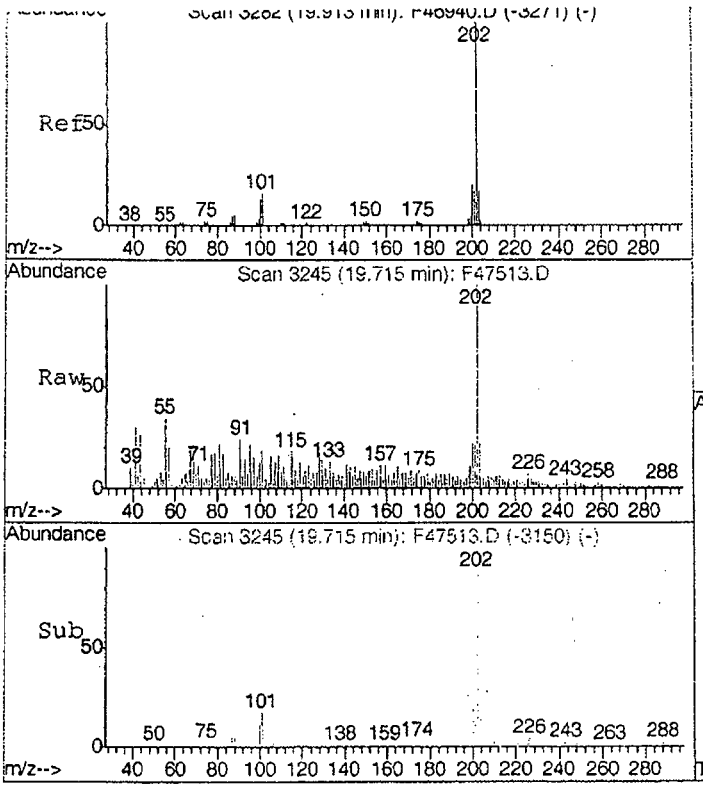


#83
Fluoranthene
Concen: 0.90 ppb
RT: 19.27 min Scan# 3162
Delta R.T. 0.01 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:202 Resp: 29694

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	44.3
100	8.7	0.0	40.4

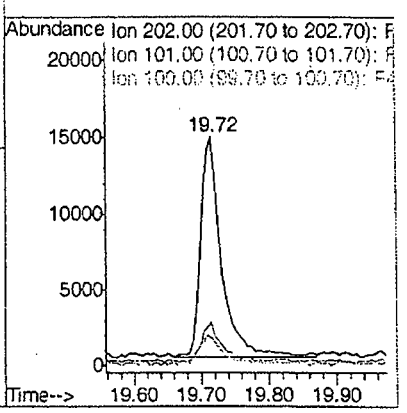




#87
Pyrene
Concen: 0.86 ppb
RT: 19.72 min Scan# 3245
Delta R.T. 0.01 min
Lab File: F47513.D
Acq: 10 Jan 2005 11:07 am

Tgt Ion:202 Resp: 30572

Ion	Ratio	Lower	Upper
202	100		
101	17.6	0.0	46.4
100	11.5	0.0	43.0



Data File : C:\MSDCHEM\1\DATA\EF2508\F47474.D Vial: 7
Acq On : 8 Jan 2005 12:13 pm Operator: NINAP
Sample : N86261-3 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 08 12:41:10 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	275454	40.00	ppb	0.00
25) Naphthalene-d8	8.91	136	1087924	40.00	ppb	0.00
48) Acenaphthene-d10	12.99	164	579461	40.00	ppb	0.00
70) Phenanthrene-d10	16.48	188	1029463	40.00	ppb	0.00
85) Chrysene-d12	22.02	240	973213	40.00	ppb	0.00
95) Perylene-d12	24.35	264	601234	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	186709	19.43	ppb	0.00
Spiked Amount 50.000			Recovery =	38.86%		
8) Phenol-d5	5.80	99	153756	13.30	ppb	0.00
Spiked Amount 50.000			Recovery =	26.60%		
26) Nitrobenzene-d5	7.44	82	372622	36.15	ppb	0.00
Spiked Amount 50.000			Recovery =	72.30%		
52) 2-Fluorobiphenyl	11.48	172	764954	34.54	ppb	0.00
Spiked Amount 50.000			Recovery =	69.08%		
75) 2,4,6-Tribromophenol	14.91	330	98851	44.23	ppb	0.00
Spiked Amount 50.000			Recovery =	88.46%		
3) Terphenyl-d14	20.14	244	1037287	47.27	ppb	0.00
Spiked Amount 50.000			Recovery =	94.54%		

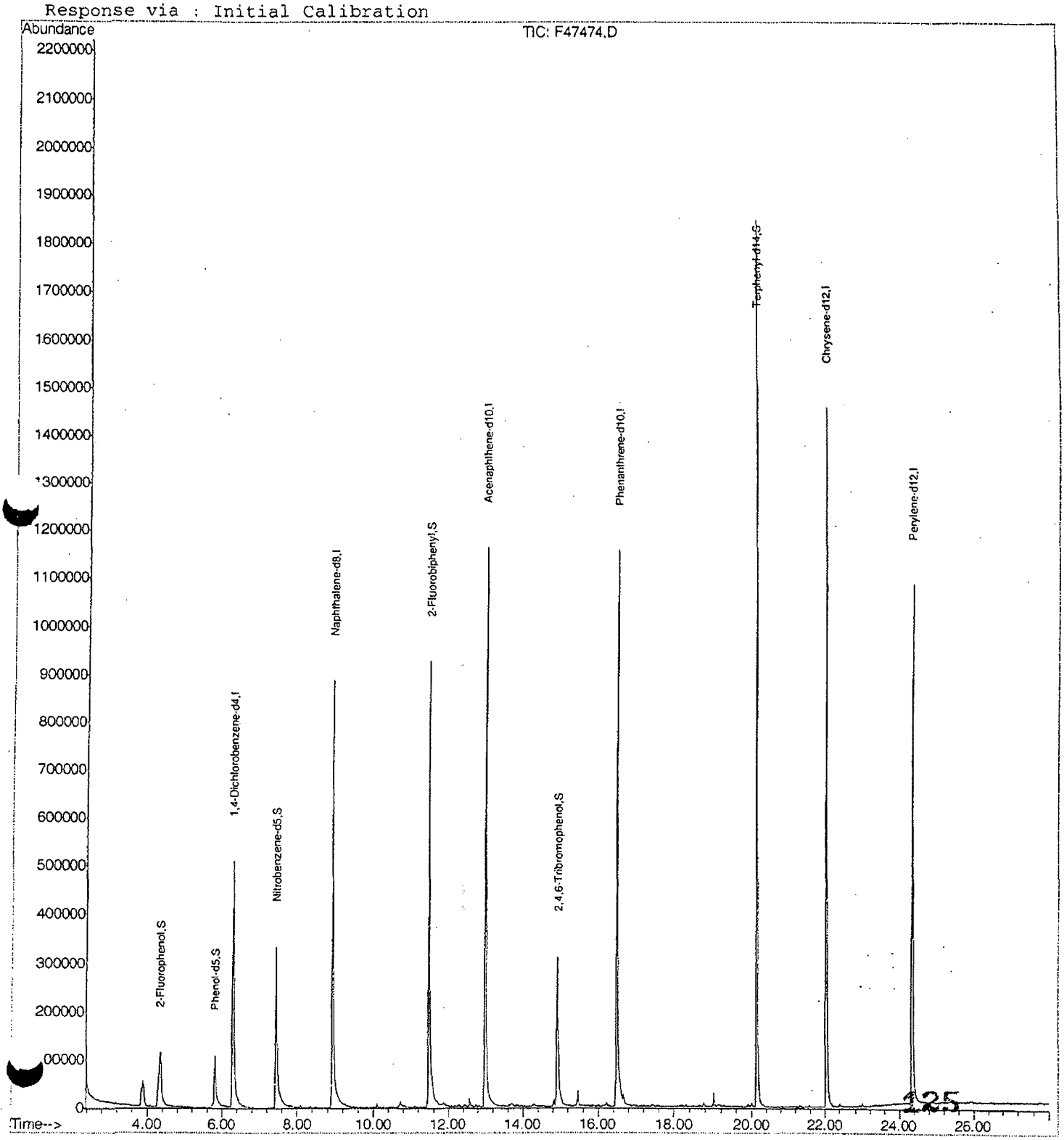
Target Compounds Qvalue

124

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2508\F47474.D Vial: 7
Acq On : 8 Jan 2005 12:13 pm Operator: NINAP
Sample : N86261-3 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 9:41 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



125

Data File : C:\MSDCHEM\1\DATA\EF2508\F47475.D Vial: 8
Acq On : 8 Jan 2005 12:49 pm Operator: NINAP
Sample : N86261-4 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 08 13:17:14 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	268040	40.00	ppb	0.00
25) Naphthalene-d8	8.91	136	1062546	40.00	ppb	0.00
48) Acenaphthene-d10	12.99	164	567538	40.00	ppb	0.00
70) Phenanthrene-d10	16.48	188	990871	40.00	ppb	0.00
85) Chrysene-d12	22.03	240	929862	40.00	ppb	0.00
95) Perylene-d12	24.35	264	572690	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	212331	22.71	ppb	0.00
Spiked Amount 50.000			Recovery = 45.42%			
8) Phenol-d5	5.79	99	164941	14.66	ppb	0.00
Spiked Amount 50.000			Recovery = 29.32%			
26) Nitrobenzene-d5	7.44	82	426336	42.35	ppb	0.00
Spiked Amount 50.000			Recovery = 84.70%			
52) 2-Fluorobiphenyl	11.48	172	816966	37.67	ppb	0.00
Spiked Amount 50.000			Recovery = 75.34%			
75) 2,4,6-Tribromophenol	14.91	330	87573	40.71	ppb	0.00
Spiked Amount 50.000			Recovery = 81.42%			
8) Terphenyl-d14	20.14	244	964776	46.01	ppb	0.00
Spiked Amount 50.000			Recovery = 92.02%			

Target Compounds Qvalue

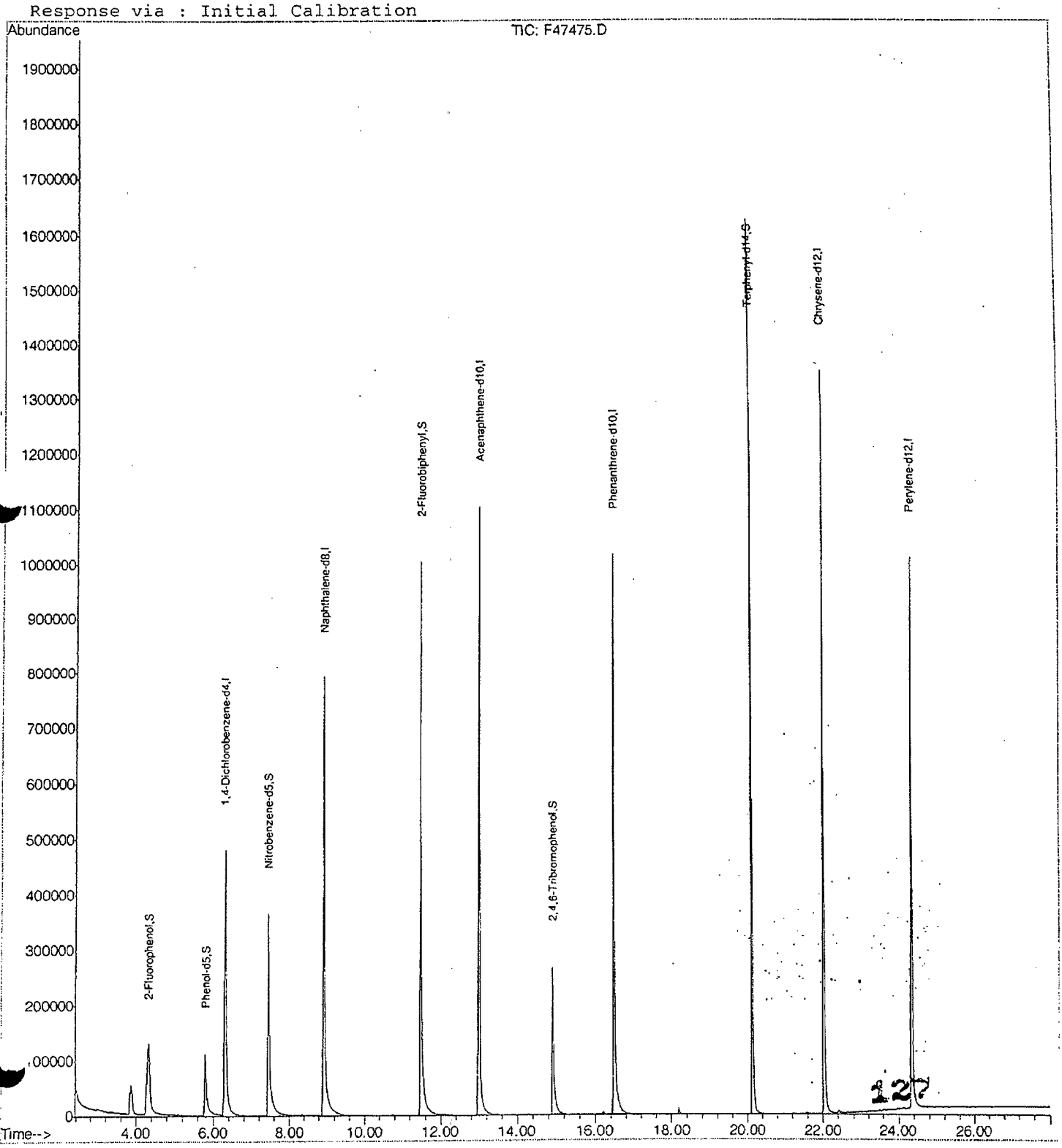
1/11/05

126

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2508\F47475.D Vial: 8
Acq On : 8 Jan 2005 12:49 pm Operator: NINAP
Sample : N86261-4 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 9:41 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



127

Data File : C:\MSDCHEM\1\DATA\EF2508\F47484.D Vial: 17
Acq On : 8 Jan 2005 6:12 pm Operator: NINAP
Sample : N86261-6 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 08 18:40:09 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.31	152	262235	40.00	ppb	0.00
25) Naphthalene-d8	8.92	136	1023952	40.00	ppb	0.00
48) Acenaphthene-d10	13.00	164	548337	40.00	ppb	0.00
70) Phenanthrene-d10	16.48	188	960822	40.00	ppb	0.00
85) Chrysene-d12	22.03	240	762285	40.00	ppb	0.00
95) Perylene-d12	24.35	264	320964	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.34	112	221989	24.27	ppb	0.00
Spiked Amount 50.000			Recovery = 48.54%			
8) Phenol-d5	5.80	99	176846	16.06	ppb	0.01
Spiked Amount 50.000			Recovery = 32.12%			
26) Nitrobenzene-d5	7.44	82	432155	44.55	ppb	0.00
Spiked Amount 50.000			Recovery = 89.10%			
52) 2-Fluorobiphenyl	11.48	172	890279	42.48	ppb	0.00
Spiked Amount 50.000			Recovery = 84.96%			
75) 2,4,6-Tribromophenol	14.91	330	100542	48.20	ppb	0.00
Spiked Amount 50.000			Recovery = 96.40%			
78) Terphenyl-d14	20.14	244	958499	55.76	ppb	0.00
Spiked Amount 50.000			Recovery = 111.52%			

Target Compounds Qvalue

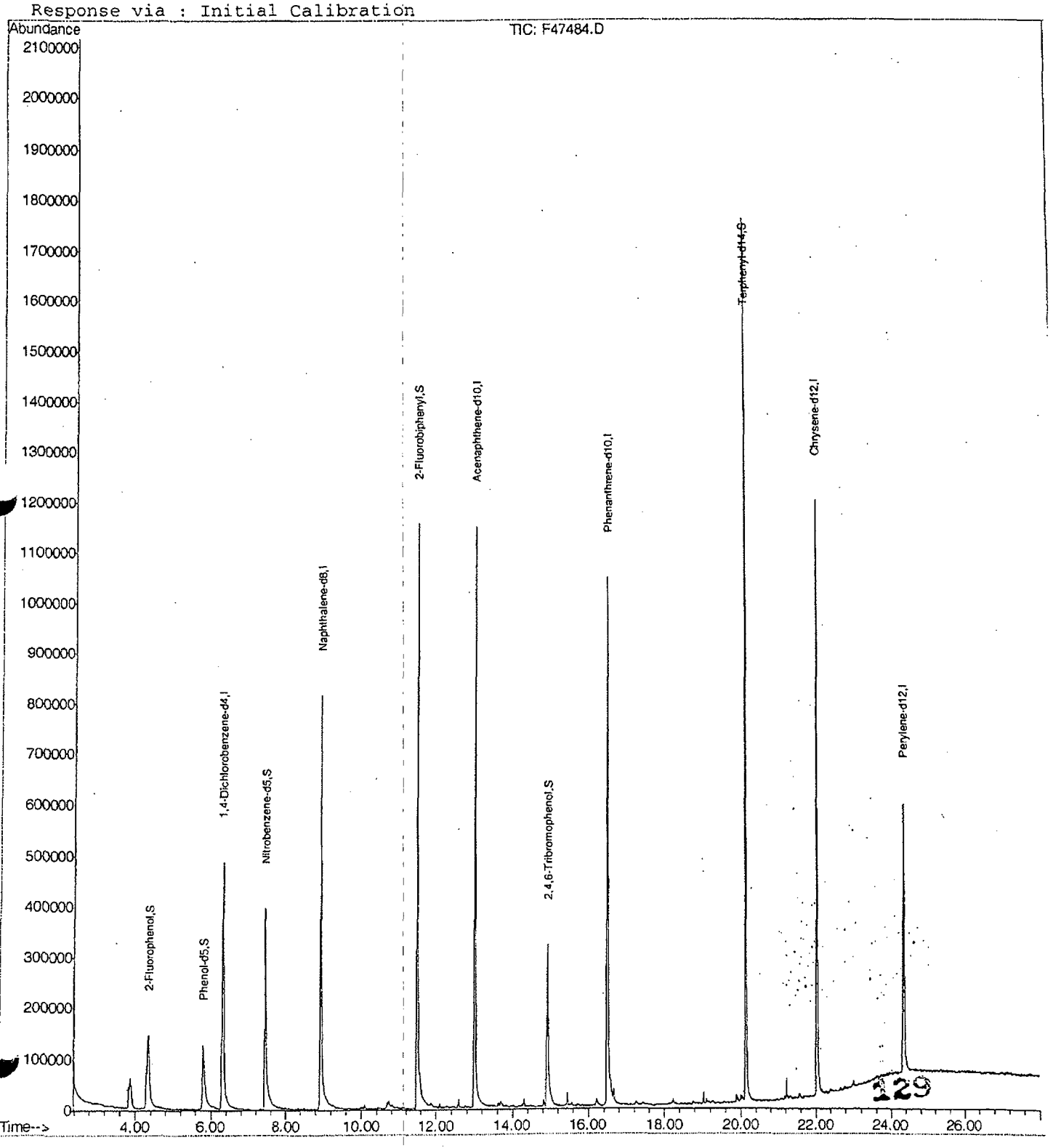
11/01/05

128

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2508\F47484.D Vial: 17
Acq On : 8 Jan 2005 6:12 pm Operator: NINAP
Sample : N86261-6 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 10:42 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2508\F47472.D Vial: 5
Acq On : 8 Jan 2005 11:01 am Operator: NINAP
Sample : OP19045-MB1 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 08 11:29:34 2005 Quant Results File: MF2491.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration
DataAcq Meth : MF2491

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.30	152	225134	40.00	ppb	0.00
25) Naphthalene-d8	8.91	136	881061	40.00	ppb	0.00
48) Acenaphthene-d10	12.99	164	461964	40.00	ppb	0.00
70) Phenanthrene-d10	16.48	188	810039	40.00	ppb	0.00
85) Chrysene-d12	22.02	240	746263	40.00	ppb	0.00
95) Perylene-d12	24.35	264	468309	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	235289	29.97	ppb	0.00
Spiked Amount 50.000			Recovery =	59.94%		
8) Phenol-d5	5.79	99	188254	19.92	ppb	0.00
Spiked Amount 50.000			Recovery =	39.84%		
26) Nitrobenzene-d5	7.44	82	436986	52.35	ppb	0.00
Spiked Amount 50.000			Recovery =	104.70%		
52) 2-Fluorobiphenyl	11.48	172	849223	48.10	ppb	0.00
Spiked Amount 50.000			Recovery =	96.20%		
75) 2,4,6-Tribromophenol	14.91	330	90255	51.32	ppb	0.00
Spiked Amount 50.000			Recovery =	102.64%		
3) Terphenyl-d14	20.13	244	892990	53.07	ppb	0.00
Spiked Amount 50.000			Recovery =	106.14%		
Target Compounds						Qvalue

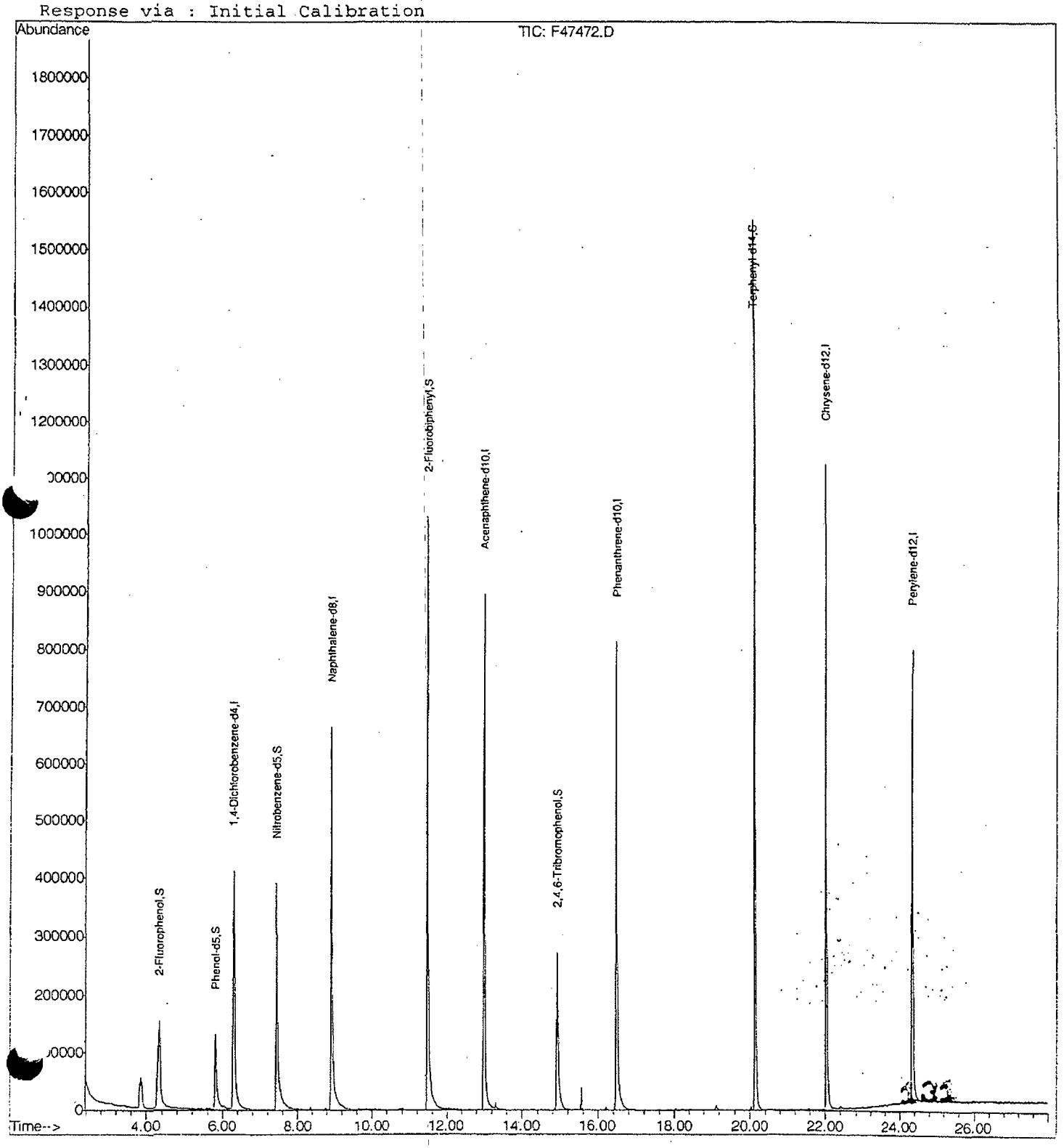
1/10/05

130

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\MSDCHEM\1\DATA\EF2508\F47472.D Vial: 5
Acq On : 8 Jan 2005 11:01 am Operator: NINAP
Sample : OP19045-MB1 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jan 10 9:39 2005 Quant Results File: MF2491.RES

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Jan 08 09:45:35 2005
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\EF2508\F47472.D Vial: 5
Acq On : 8 Jan 2005 11:01 am Operator: NINAP
Sample : OP19045-MB1 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.05 Max Peaks: 125
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.325	174	177	181	rBV5	955	1387	0.05%	0.007%
2	3.539	214	217	225	rVB6	1579	3385	0.13%	0.017%
3	3.646	235	237	244	rVB5	864	1178	0.04%	0.006%
4	3.838	265	273	276	rBV	43179	79097	2.96%	0.390%
5	3.876	276	280	300	rVB2	51404	182779	6.85%	0.902%
6	4.330	348	365	402	rBV3	150481	779806	29.23%	3.847%
7	4.565	408	409	415	rVB6	1323	1738	0.07%	0.009%
8	4.698	433	434	441	rVB4	1077	1794	0.07%	0.009%
9	4.805	453	454	460	rVB4	907	1282	0.05%	0.006%
10	5.355	550	557	564	rVB5	588	1167	0.04%	0.006%
11	5.558	588	595	597	rBV4	990	1508	0.06%	0.007%
12	5.660	610	614	623	rVB6	923	1966	0.07%	0.010%
13	5.793	629	639	678	rBV2	130697	514816	19.30%	2.540%
14	6.301	722	734	792	rBV	409934	1413511	52.98%	6.974%
15	6.696	805	808	815	rVB4	1291	2358	0.09%	0.012%
16	7.017	863	868	873	rVB6	702	1278	0.05%	0.006%
17	7.161	890	895	901	rVB3	517	1157	0.04%	0.006%
18	7.332	920	927	934	rBV4	608	1322	0.05%	0.007%
19	7.444	939	948	1008	rBV	389979	1269929	47.60%	6.265%
20	7.962	1043	1045	1050	rVB3	1058	1140	0.04%	0.006%
21	8.085	1063	1068	1069	rVB3	989	1036	0.04%	0.005%
22	8.342	1111	1116	1127	rBV	5819	8349	0.31%	0.041%
23	8.758	1188	1194	1199	rBV4	4190	5783	0.22%	0.029%
24	8.913	1215	1223	1294	rBV	664596	1810597	67.86%	8.933%
25	9.298	1294	1295	1299	rVV3	2374	2325	0.09%	0.011%
26	9.335	1299	1302	1308	rVB5	1064	1825	0.07%	0.009%
27	10.719	1555	1561	1570	rBV3	1823	4234	0.16%	0.021%
28	10.794	1570	1575	1583	rVB2	3648	5139	0.19%	0.025%
29	11.478	1691	1703	1765	rBV	1032295	2462653	92.30%	12.150%
30	11.825	1765	1768	1774	rVB4	1576	2727	0.10%	0.013%
31	11.926	1784	1787	1793	rVB4	1154	1539	0.06%	0.008%
32	11.985	1793	1798	1803	rVB4	2376	3463	0.13%	0.017%
33	12.060	1809	1812	1823	rVB5	3047	4956	0.19%	0.024%
34	12.605	1909	1914	1920	rVB2	452	1090	0.04%	0.005%
35	12.995	1976	1987	2038	rBV2	896023	1988014	74.51%	9.808%
36	13.305	2038	2045	2053	rVB2	9478	14320	0.54%	0.071%
37	13.486	2078	2079	2089	rVB3	881	1923	0.07%	0.009%
38	14.256	2218	2223	2226	rBV3	1357	1608	0.06%	0.008%

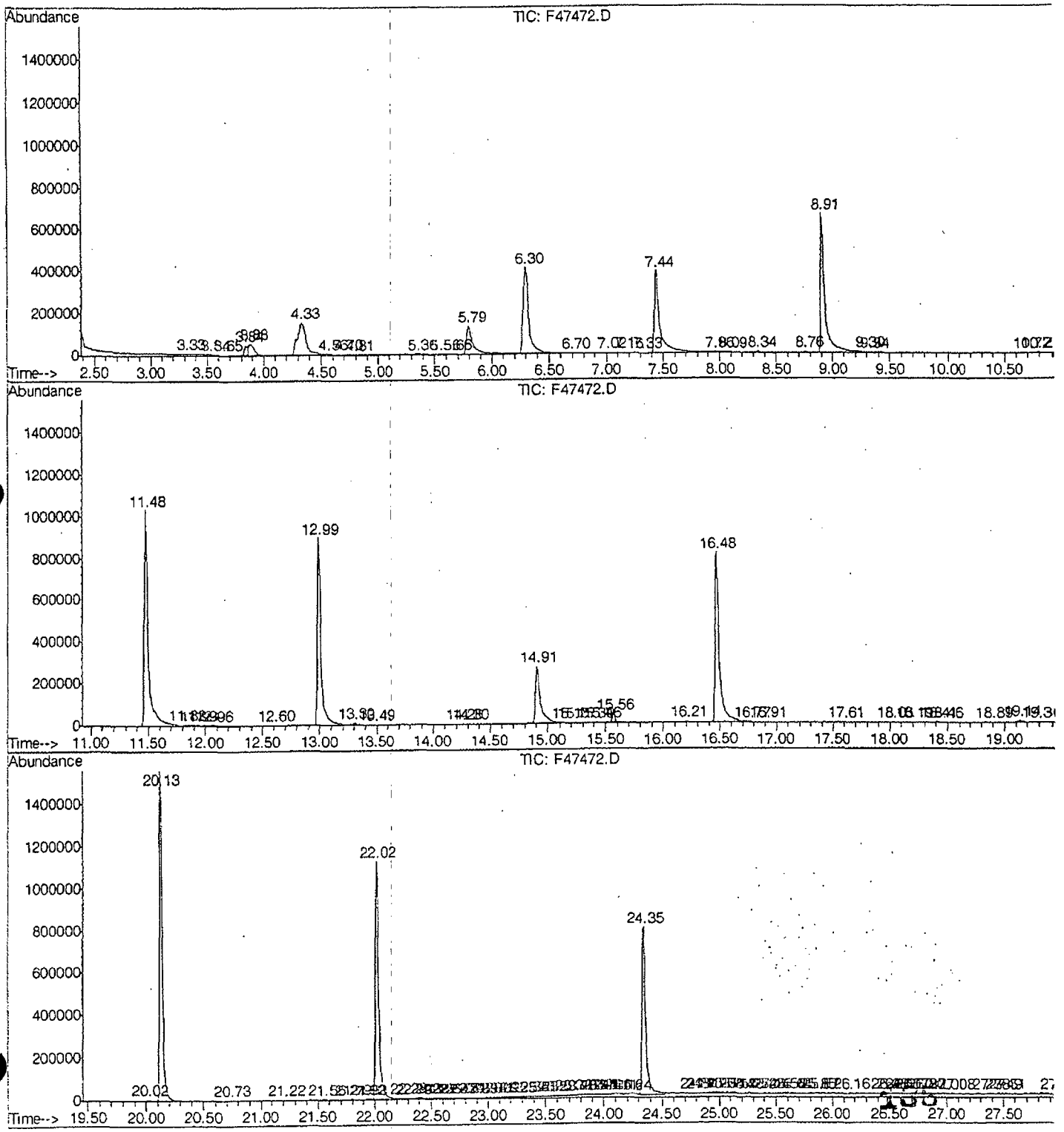
40	14.907	2333	2345	2394	rBV2	271075	845385	31.69%	4.171%
41	15.180	2394	2396	2400	rVV2	1317	1669	0.06%	0.008%
42	15.228	2400	2405	2410	rVB4	995	1513	0.06%	0.007%
43	15.393	2429	2436	2441	rBV3	839	1250	0.05%	0.006%
44	15.458	2445	2448	2452	rBB2	1128	1420	0.05%	0.007%
45	15.564	2461	2468	2479	rBB2	38922	60624	2.27%	0.299%
46	16.211	2581	2589	2604	rBB3	4343	11923	0.45%	0.059%
47	16.478	2629	2639	2691	rBV2	813193	2090094	78.34%	10.312%
48	16.772	2691	2694	2703	rVB4	1343	2914	0.11%	0.014%
49	16.911	2714	2720	2726	rVB2	1664	3471	0.13%	0.017%
50	17.605	2840	2850	2854	rBV3	1364	2298	0.09%	0.011%
51	18.027	2924	2929	2935	rVB3	2363	3473	0.13%	0.017%
52	18.193	2954	2960	2968	rBV2	1202	2688	0.10%	0.013%
53	18.412	2995	3001	3007	rBV3	3346	6659	0.25%	0.033%
54	18.460	3007	3010	3020	rVB3	1349	2517	0.09%	0.012%
55	18.893	3089	3091	3098	rBV3	967	1337	0.05%	0.007%
56	19.138	3126	3137	3149	rBV3	8660	24542	0.92%	0.121%
57	19.299	3160	3167	3171	rVB2	1265	1518	0.06%	0.007%
58	20.020	3294	3302	3312	rBB3	5920	13074	0.49%	0.065%
59	20.132	3312	3323	3360	rBV2	1553461	2668076	100.00%	13.163%
60	20.730	3427	3435	3439	rBV2	941	1636	0.06%	0.008%
61	21.216	3523	3526	3530	rVB	861	1186	0.04%	0.006%
62	21.564	3584	3591	3597	rBV3	2993	5585	0.21%	0.028%
63	21.793	3630	3634	3640	rBV4	1337	2946	0.11%	0.015%
64	21.916	3653	3657	3659	rBV2	1145	1196	0.04%	0.006%
65	21.932	3659	3660	3662	rBV2	1368	1090	0.04%	0.005%
66	22.023	3669	3677	3705	rBV	1122600	2043421	76.59%	10.082%
67	22.280	3719	3725	3730	rVB5	1515	1933	0.07%	0.010%
68	22.333	3730	3735	3738	rVB5	1030	1154	0.04%	0.006%
69	22.402	3742	3748	3758	rBV5	4782	13554	0.51%	0.067%
70	22.504	3765	3767	3771	rVB4	1472	1493	0.06%	0.007%
71	22.547	3771	3775	3779	rVB6	1219	2088	0.08%	0.010%
72	22.589	3782	3783	3788	rVB4	1514	1537	0.06%	0.008%
73	22.643	3788	3793	3797	rBV6	2795	3891	0.15%	0.019%
74	22.702	3801	3804	3808	rVV5	1079	1665	0.06%	0.008%
75	22.734	3808	3810	3815	rVB5	1225	1975	0.07%	0.010%
76	22.808	3821	3824	3825	rBV3	1912	1644	0.06%	0.008%
77	22.824	3825	3827	3829	rVV3	1511	1214	0.05%	0.006%
78	22.979	3852	3856	3861	rVB7	1994	2358	0.09%	0.012%
79	23.022	3861	3864	3867	rBV4	1616	1820	0.07%	0.009%
80	23.092	3873	3877	3878	rVB4	1310	1533	0.06%	0.008%
81	23.118	3880	3882	3885	rBV3	1045	1157	0.04%	0.006%
82	23.252	3900	3907	3912	rBV7	2402	5732	0.21%	0.028%
83	23.348	3921	3925	3928	rBV5	1973	2594	0.10%	0.013%
84	23.433	3938	3941	3946	rBV5	1568	1753	0.07%	0.009%
85	23.578	3965	3968	3970	rBV4	1841	1336	0.05%	0.007%
86	23.610	3971	3974	3978	rVB5	1538	2186	0.08%	0.011%
87	23.722	3988	3995	3998	rBV8	3567	7414	0.28%	0.037%
88	23.754	4000	4001	4006	rVV5	1723	2508	0.09%	0.012%
89	23.834	4008	4016	4017	rVV7	1835	3785	0.14%	0.019%
90	23.941	4033	4036	4038	rVB4	1900	1614	0.06%	0.008%
91	23.962	4038	4040	4041	rBV2	1893	1484	0.06%	0.007%
92	24.010	4047	4049	4051	rVB3	1868	1209	0.05%	0.006%
93	24.059	4054	4058	4059	rBV4	2312	2510	0.09%	0.012%
94	24.112	4067	4068	4071	rBV3	1578	1470	0.06%	0.007%
95	24.160	4076	4077	4080	rBV3	2111	1721	0.06%	0.008%

96	24.240	4089	4092	4094	rBV4	1773	1777	0.07%	0.009%
97	24.352	4102	4113	4145	rBV2	785793	1726509	64.71%	8.518%
98	24.801	4196	4197	4199	rBV2	1640	1484	0.06%	0.007%
99	24.849	4204	4206	4208	rVB3	1948	1739	0.07%	0.009%
100	24.865	4208	4209	4212	rBV3	2082	1956	0.07%	0.010%
101	24.961	4218	4227	4236	rBV3	2513	9628	0.36%	0.048%
102	25.036	4238	4241	4244	rBV5	3444	3906	0.15%	0.019%
103	25.138	4258	4260	4264	rVB5	2461	2876	0.11%	0.014%
104	25.164	4264	4265	4267	rBV2	2267	1274	0.05%	0.006%
105	25.223	4273	4276	4278	rBV4	1870	1893	0.07%	0.009%
106	25.271	4283	4285	4288	rBV4	2812	2086	0.08%	0.010%
107	25.405	4308	4310	4313	rBV4	3239	3355	0.13%	0.017%
108	25.442	4314	4317	4319	rVB4	2010	2216	0.08%	0.011%
109	25.581	4337	4343	4345	rBV7	2902	4507	0.17%	0.022%
110	25.640	4352	4354	4357	rVB3	2114	1688	0.06%	0.008%
111	25.854	4393	4394	4396	rVB2	2562	1529	0.06%	0.008%
112	25.875	4396	4398	4402	rBV5	2525	3211	0.12%	0.016%
113	26.158	4447	4451	4453	rBV4	2915	3183	0.12%	0.016%
114	26.484	4509	4512	4516	rBV6	1581	1764	0.07%	0.009%
115	26.537	4519	4522	4524	rVV4	1581	1588	0.06%	0.008%
116	26.612	4533	4536	4538	rBV4	2762	2111	0.08%	0.010%
117	26.671	4545	4547	4549	rBV3	2204	1960	0.07%	0.010%
118	26.698	4551	4552	4560	rVV8	2215	4355	0.16%	0.021%
119	26.804	4567	4572	4573	rBV4	2182	3290	0.12%	0.016%
120	26.997	4607	4608	4610	rBV2	1900	1360	0.05%	0.007%
121	27.077	4621	4623	4627	rBV5	1514	2070	0.08%	0.010%
122	27.376	4676	4679	4682	rBV5	2074	2755	0.10%	0.014%
123	27.488	4698	4700	4702	rVB3	2111	1523	0.06%	0.008%
124	27.515	4702	4705	4709	rBV5	1994	3256	0.12%	0.016%
125	27.958	4786	4788	4791	rBV4	2534	2579	0.10%	0.013%

Sum of corrected areas: 20268949

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\EF2508\F47472.D
Operator : NINAP
Acquired : 8 Jan 2005 11:01 am using AcqMethod MF2491
Instrument : MSF
Sample Name: OP19045-MB1
Misc Info : OP19045,EF2508,1000
Vial Number: 5
Quant File :MF2491.RES (RTE Integrator)



Data File : C:\MSDCHEM\1\DATA\EF2508\F47472.D Vial: 5
Acq On : 8 Jan 2005 11:01 am Operator: NINAP
Sample : OP19045-MB1 Inst : MSF
Misc : OP19045,EF2508,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P

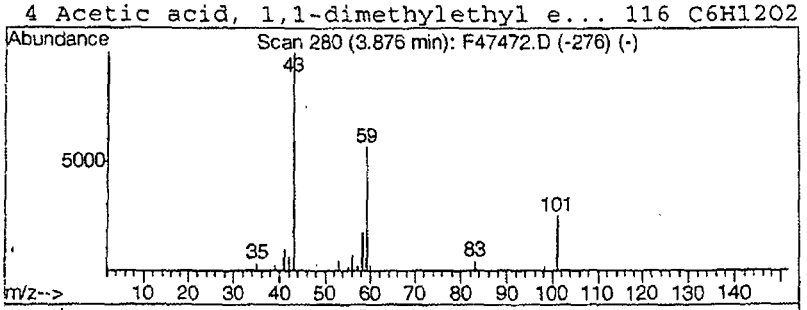
[redacted]nt Method : C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Library : C:\DATABASE\NIST98.L

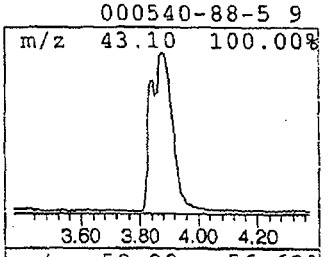
****

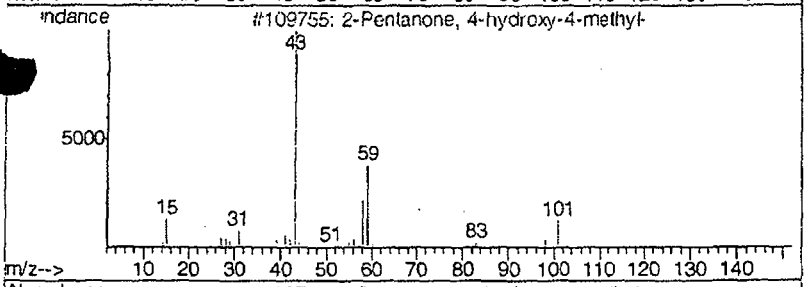
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

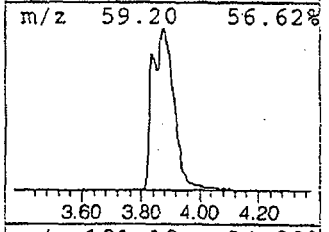
R.T.	EstConc	Area	Relative to ISTD	R.T.
3.88	5.17 ppb	182779	1,4-Dichlorobenzene-d4	6.30

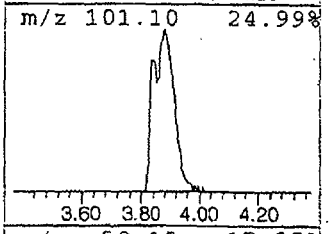
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	36
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9

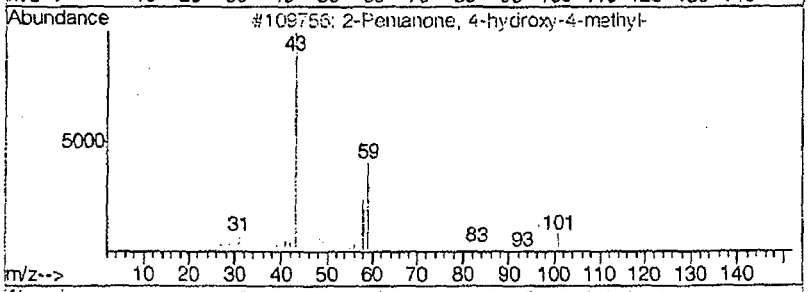


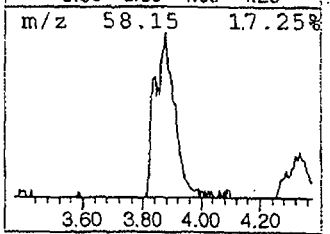


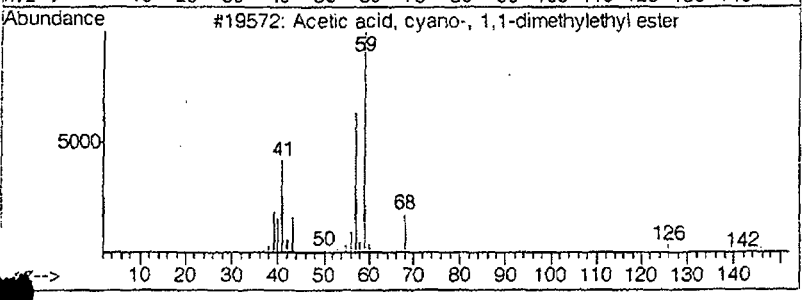


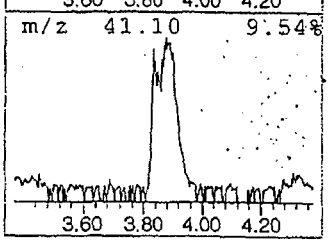












Operator ID: NINAP Date Acquired: 8 Jan 2005 11:01 am
Data File: C:\MSDCHEM\1\DATA\EF2508\F47472.D
Name: OP19045-MB1
Misc: OP19045,EF2508,1000
Method: C:\MSDCHEM\1\METHODS\MF2491.M (RTE Integrator)
Hit Semi Volatile Extractables by GC/MS
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
2-Pentanone, 4-hy...	3.88	5.2	ppb	182779	1	6.30	1413510	40.0

137

New Jersey
ACCUTEST.
Laboratories

04/05/05

Technical Report for

Arcadis Geraghty & Miller

PSEG, Hancock's Bridge, NJ

Accutest Job Number: N93379

Sampling Date: 03/15/05

Report to:

Arcadis Geraghty & Miller
6 Terry Drive
Newtown, PA 18940

ATTN: Brad Pierce

Total number of pages in report: 122

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Sections: 1 2 3 4 5 6 7 8

Table of Contents

Accutest Laboratories

Sample Summary

Arcadis Geraghty & Miller

PSEG, Hancock's Bridge, NJ

Job No: N93379

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
N93379-1	03/15/05	09:05	RDM	03/16/05	AQ	Ground Water	WELL AY
N93379-2	03/15/05	11:00	RDM	03/16/05	AQ	Ground Water	WELL X
N93379-3	03/15/05	13:12	RDM	03/16/05	AQ	Ground Water	WELL AV
N93379-4	03/15/05	14:25	RDM	03/16/05	AQ	Ground Water	WELL AVD
N93379-5	03/15/05	14:05	RDM	03/16/05	AQ	Field Blank Water	FB-031505
N93379-6	03/15/05	14:25	RDM	03/16/05	AQ	Trip Blank Water	TRIP BLANK

ACCUTEST Laboratories

N

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Arcadis Geraghty & Miller	**Job No**	N93379
Site:	PSEG, Hancock's Bridge, NJ	**Report Date**	4/5/2005 11:51:07 AM

4 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were collected on 03/15/2005 and were received at Accutest on 03/16/2005 properly preserved, at 4 Deg. C and intact. These Samples received an Accutest job number of N93379. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VA2990

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) N93391-3DUP, N93391-4MS were used as the QC samples indicated.
- Blank Spike Recovery(s) for Chloromethane are outside control limits.
- VA2990-BS for Chloromethane: High percent recoveries and no associated positive found in the QC batch.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP19692

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) N93090-14MS, N93090-14MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Probable cause due to matrix interference.
- OP19692-MS for 3,3'-Dichlorobenzidine: Outside of in house control limits.

The Accutest Laboratories of New Jersey certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NJ, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(N93379).

Raw Data: A94444.D

Accutest Laboratories

Report of Analysis

3.1

Client Sample ID:	WELL AY		
Lab Sample ID:	N93379-1	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94444.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N93379-1	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-119%
17060-07-0	1,2-Dichloroethane-D4	107%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	113%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: H74037.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N93379-1	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74037.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N93379-1	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-81%
4165-62-2	Phenol-d5	27%		10-64%
118-79-6	2,4,6-Tribromophenol	80%		43-126%
4165-60-0	Nitrobenzene-d5	90%		28-125%
321-60-8	2-Fluorobiphenyl	82%		32-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AY		
Lab Sample ID:	N93379-1	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		42-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: A94445.D

Accutest Laboratories

Report of Analysis

3.2

Client Sample ID:	WELL X		
Lab Sample ID:	N93379-2	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94445.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	0.83	1.0	0.27	ug/l	J
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N93379-2	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		79-119%
17060-07-0	1,2-Dichloroethane-D4	110%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	111%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: H74038.D

Accutest Laboratories

Report of Analysis

3.2

Client Sample ID:	WELL X		
Lab Sample ID:	N93379-2	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74038.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	4.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	0.74	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.66	ug/l	
95-48-7	2-Methylphenol	ND	5.1	0.74	ug/l	
	3&4-Methylphenol	ND	5.1	0.72	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	0.75	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.77	ug/l	
108-95-2	Phenol	ND	5.1	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	0.76	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	0.82	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.28	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.39	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.38	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.51	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.38	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.55	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.44	ug/l	
86-74-8	Carbazole	ND	2.0	0.35	ug/l	
218-01-9	Chrysene	ND	2.0	0.27	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N93379-2	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.33	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.79	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.63	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.40	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.59	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.50	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.80	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.64	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.5	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.59	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.75	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.65	ug/l	
86-73-7	Fluorene	ND	2.0	0.91	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.42	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.46	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.68	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.6	ug/l	
78-59-1	Isophorone	ND	2.0	0.55	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.74	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.62	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.81	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.24	ug/l	
129-00-0	Pyrene	ND	2.0	0.60	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.33	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-81%
4165-62-2	Phenol-d5	23%		10-64%
118-79-6	2,4,6-Tribromophenol	78%		43-126%
4165-60-0	Nitrobenzene-d5	71%		28-125%
321-60-8	2-Fluorobiphenyl	67%		32-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL X		
Lab Sample ID:	N93379-2	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	83%		42-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: A94446.D

Accutest Laboratories

Report of Analysis

3.3

Client Sample ID:	WELL AV		
Lab Sample ID:	N93379-3	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94446.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N. = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N93379-3	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-119%
17060-07-0	1,2-Dichloroethane-D4	110%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	108%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: H74039.D

Accutest Laboratories

Report of Analysis

3.3

Client Sample ID:	WELL AV		
Lab Sample ID:	N93379-3	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74039.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	5.0	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	0.95	2.0	0.22	ug/l	J
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	9.9	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N93379-3	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	2.7	5.0	0.49	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	1.4	2.0	0.63	ug/l	J
86-73-7	Fluorene	4.4	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	2.0	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	4.3	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	5.3	2.0	0.23	ug/l	
129-00-0	Pyrene	0.94	2.0	0.58	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-81%
4165-62-2	Phenol-d5	28%		10-64%
118-79-6	2,4,6-Tribromophenol	95%		43-126%
4165-60-0	Nitrobenzene-d5	93%		28-125%
321-60-8	2-Fluorobiphenyl	82%		32-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AV		
Lab Sample ID:	N93379-3	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C. SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		42-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: A94447.D

Accutest Laboratories

Report of Analysis

3.4

Client Sample ID:	WELL AVD		
Lab Sample ID:	N93379-4	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94447.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AVD		
Lab Sample ID:	N93379-4	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-119%
17060-07-0	1,2-Dichloroethane-D4	107%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	108%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: H74040.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	WELL AVD		
Lab Sample ID:	N93379-4	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74040.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	5.1	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	0.97	2.0	0.22	ug/l	J
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	10	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AVD		
Lab Sample ID:	N93379-4	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	2.7	5.0	0.49	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	1.4	2.0	0.63	ug/l	J
86-73-7	Fluorene	4.7	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	2.3	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	4.6	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	5.6	2.0	0.23	ug/l	
129-00-0	Pyrene	0.97	2.0	0.58	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-81%
4165-62-2	Phenol-d5	29%		10-64%
118-79-6	2,4,6-Tribromophenol	96%		43-126%
4165-60-0	Nitrobenzene-d5	97%		28-125%
321-60-8	2-Fluorobiphenyl	84%		32-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WELL AVD		
Lab Sample ID:	N93379-4	Date Sampled:	03/15/05
Matrix:	AQ - Ground Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		42-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: A94448.D

Accutest Laboratories

Report of Analysis

3.5

Client Sample ID:	FB-031505		
Lab Sample ID:	N93379-5	Date Sampled:	03/15/05
Matrix:	AQ - Field Blank Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94448.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-031505		
Lab Sample ID:	N93379-5	Date Sampled:	03/15/05
Matrix:	AQ - Field Blank Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		79-119%
17060-07-0	1,2-Dichloroethane-D4	104%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	115%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: H74041.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB-031505		
Lab Sample ID:	N93379-5	Date Sampled:	03/15/05
Matrix:	AQ - Field Blank Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H74041.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

3.5

Client Sample ID:	FB-031505		
Lab Sample ID:	N93379-5	Date Sampled:	03/15/05
Matrix:	AQ - Field Blank Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-81%
4165-62-2	Phenol-d5	28%		10-64%
118-79-6	2,4,6-Tribromophenol	80%		43-126%
4165-60-0	Nitrobenzene-d5	92%		28-125%
321-60-8	2-Fluorobiphenyl	83%		32-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-031505		
Lab Sample ID:	N93379-5	Date Sampled:	03/15/05
Matrix:	AQ - Field Blank Water	Date Received:	03/16/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		42-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: A94449.D

Accutest Laboratories

Report of Analysis

3.6

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N93379-6	Date Sampled:	03/15/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A94449.D	1	03/22/05	NDJ	n/a	n/a	VA2990
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	N93379-6	Date Sampled:	03/15/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/16/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	PSEG, Hancock's Bridge, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		79-119%
17060-07-0	1,2-Dichloroethane-D4	107%		68-129%
2037-26-5	Toluene-D8	87%		83-118%
460-00-4	4-Bromofluorobenzene	117%		82-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST. Laboratories

BW, FB TO

CHAIN OF CUSTODY

2235 Route 130, Dayton NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # N9 3379

Client / Reporting Information

Company Name: Arcadis
Address: 6 Terry Dike Suite 300
City: Newtown State: PA Zip: 18940
Project Contact: Brad Piepe E-mail: bpiepe@arcadis-us.com
Phone #: 267-685-1800
Sampler's Name: Ryan McKinney

Project Information

Project Name: PSEG
Street:
City: Hancock's Bridge State: NJ
Project #:
Fax #: 267-685-1801
Client Purchase Order #:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OL - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	SUMMA # / MEOH Vial #	Collection: Date	Time	Sampled By	Matrix	# of bottles	Number of preserved Bottles								Requested Analysis			LAB USE ONLY
	~~Well AZ~~ Omitted		3.15.05	905	ROM	GW	5	3				2				X		X	EX6, 2255
-1	Well AY			1100			5	3				2				X		X	2255
-2	Well X			1312			5	3				2				X		X	
-3	Well AV			1425			5	3				2				X		X	
-4	Well ~~AVC~~ AVD			1425			5	3				2				X		X	
-5	EB-031505		↓	1405	↓	↓	4	2				2				X		X	
-6	Trip Blank		—	—	—	—	2	2								X			

Turnaround Time (Business Days)

- ☐ Std. 15 Business Days — Approved By: / Date:
- ☐ 10 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ Other

Emergency & Rush T/A data available VIA LabLink

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ NJ Reduced
- ☐ NJ Full
- ☐ Other
- ☐ FULL CLP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results Only

Comments / Remarks

• tb filled 3/14/05 6:30 3/15/05 PVO

TCL per N63/03/05a

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1	3/16/05 1540	1 Paul Keller 3-16-05 1430	2 Paul Keller 3-16-05 1600		2 M Collins
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
3		3	4		4
Relinquished by:	Date Time	Received by:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp
5		5		☐	☑	4.6 C

IB

4.1 4

N93379: Chain of Custody
Page 1 of 1

Accutest Laboratories

Internal Sample Tracking Chronicle

4.2

Arcadis Geraghty & Miller

Job No: N93379

PSEG, Hancock's Bridge, NJ

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
N93379-1	Collected: 15-MAR-05 09:05 By: RDM	Received: 16-MAR-05 By: MPC				
WELL AY						
N93379-1	SW846 8260B	22-MAR-05 05:13	NDJ			V8260TCL
N93379-1	SW846 8270C	02-APR-05 03:12	SSW	16-MAR-05	RL	AB8270TCL
N93379-2	Collected: 15-MAR-05 11:00 By: RDM	Received: 16-MAR-05 By: MPC				
WELL X						
N93379-2	SW846 8260B	22-MAR-05 05:43	NDJ			V8260TCL
N93379-2	SW846 8270C	02-APR-05 03:46	SSW	16-MAR-05	RL	AB8270TCL
N93379-3	Collected: 15-MAR-05 13:12 By: RDM	Received: 16-MAR-05 By: MPC				
WELL AV						
N93379-3	SW846 8260B	22-MAR-05 06:27	NDJ			V8260TCL
N93379-3	SW846 8270C	02-APR-05 04:31	SSW	16-MAR-05	RL	AB8270TCL
N93379-4	Collected: 15-MAR-05 14:25 By: RDM	Received: 16-MAR-05 By: MPC				
WELL AVD						
N93379-4	SW846 8260B	22-MAR-05 06:57	NDJ			V8260TCL
N93379-4	SW846 8270C	02-APR-05 05:01	SSW	16-MAR-05	RL	AB8270TCL
N93379-5	Collected: 15-MAR-05 14:05 By: RDM	Received: 16-MAR-05 By: MPC				
FB-031505						
N93379-5	SW846 8260B	22-MAR-05 07:26	NDJ			V8260TCL
N93379-5	SW846 8270C	02-APR-05 05:45	SSW	16-MAR-05	RL	AB8270TCL
N93379-6	Collected: 15-MAR-05 14:25 By: RDM	Received: 16-MAR-05 By: MPC				
TRIP BLANK						
N93379-6	SW846 8260B	22-MAR-05 07:56	NDJ			V8260TCL

Accutest Internal Chain of Custody

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ
Received: 03/16/05

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
N93379-1.2	Secured Storage	Karl M. Rosko	03/16/05 16:51	Retrieve from Storage
N93379-1.2	Karl M. Rosko		03/16/05 20:07	Depleted
N93379-1.2.1	Karl M. Rosko	Organics Prep	03/16/05 16:51	Extract from N93379-1.2
N93379-1.2.1	Organics Prep	Karl M. Rosko	03/16/05 20:08	Extract from N93379-1.2
N93379-1.2.1	Karl M. Rosko	Extract Storage	03/16/05 20:08	Return to Storage
N93379-1.3	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage
N93379-1.3	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-1.3	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-1.3	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage
N93379-2.2	Secured Storage	Karl M. Rosko	03/16/05 16:51	Retrieve from Storage
N93379-2.2	Karl M. Rosko		03/16/05 20:07	Depleted
N93379-2.2.1	Karl M. Rosko	Organics Prep	03/16/05 16:51	Extract from N93379-2.2
N93379-2.2.1	Organics Prep	Karl M. Rosko	03/16/05 20:08	Extract from N93379-2.2
N93379-2.2.1	Karl M. Rosko	Extract Storage	03/16/05 20:08	Return to Storage
N93379-2.3	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage
N93379-2.3	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-2.3	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-2.3	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage
N93379-3.2	Secured Storage	Karl M. Rosko	03/16/05 16:51	Retrieve from Storage
N93379-3.2	Karl M. Rosko		03/16/05 20:07	Depleted
N93379-3.2.1	Karl M. Rosko	Organics Prep	03/16/05 16:51	Extract from N93379-3.2
N93379-3.2.1	Organics Prep	Karl M. Rosko	03/16/05 20:08	Extract from N93379-3.2
N93379-3.2.1	Karl M. Rosko	Extract Storage	03/16/05 20:08	Return to Storage
N93379-3.4	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage
N93379-3.4	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-3.4	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-3.4	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage
N93379-4.1	Secured Storage	Karl M. Rosko	03/16/05 16:51	Retrieve from Storage
N93379-4.1	Karl M. Rosko		03/16/05 20:07	Depleted
N93379-4.1.1	Karl M. Rosko	Organics Prep	03/16/05 16:51	Extract from N93379-4.1
N93379-4.1.1	Organics Prep	Karl M. Rosko	03/16/05 20:08	Extract from N93379-4.1
N93379-4.1.1	Karl M. Rosko	Extract Storage	03/16/05 20:08	Return to Storage
N93379-4.4	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ
Received: 03/16/05

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
N93379-4.4	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-4.4	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-4.4	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage
N93379-5.2	Secured Storage	Karl M. Rosko	03/16/05 16:51	Retrieve from Storage
N93379-5.2	Karl M. Rosko		03/16/05 20:07	Depleted
N93379-5.2.1	Karl M. Rosko	Organics Prep	03/16/05 16:51	Extract from N93379-5.2
N93379-5.2.1	Organics Prep	Karl M. Rosko	03/16/05 20:08	Extract from N93379-5.2
N93379-5.2.1	Karl M. Rosko	Extract Storage	03/16/05 20:08	Return to Storage
N93379-5.4	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage
N93379-5.4	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-5.4	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-5.4	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage
N93379-6.3	Secured Storage	Naresh Jadeja	03/21/05 16:36	Retrieve from Storage
N93379-6.3	Naresh Jadeja	GCMSA	03/21/05 16:36	Load on Instrument
N93379-6.3	GCMSA	Naresh Jadeja	03/22/05 16:34	Unload from Instrument
N93379-6.3	Naresh Jadeja	Secured Storage	03/22/05 16:34	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA2990-MB1	A94436.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.3	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.11	ug/l	
75-25-2	Bromoform	ND	4.0	0.17	ug/l	
74-83-9	Bromomethane	ND	2.0	0.15	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.15	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.081	ug/l	
74-87-3	Chloromethane	ND	1.0	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.18	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.24	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.11	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.071	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.080	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	5.0	0.73	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.59	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	5.0	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.14	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.14	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.17	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.66	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA2990-MB1	A94436.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	84%	79-119%
17060-07-0	1,2-Dichloroethane-D4	100%	68-129%
2037-26-5	Toluene-D8	86%	83-118%
460-00-4	4-Bromofluorobenzene	113%	82-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA2990-BS	A94442.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	61.3	123	53-153
71-43-2	Benzene	50	50.0	100	77-119
75-27-4	Bromodichloromethane	50	55.8	112	82-126
75-25-2	Bromoform	50	54.6	109	73-135
74-83-9	Bromomethane	50	60.7	121	61-138
78-93-3	2-Butanone (MEK)	50	48.0	96	58-142
75-15-0	Carbon disulfide	50	57.3	115	60-130
56-23-5	Carbon tetrachloride	50	62.4	125	72-140
108-90-7	Chlorobenzene	50	51.6	103	81-117
75-00-3	Chloroethane	50	56.3	113	69-135
67-66-3	Chloroform	50	52.4	105	80-122
74-87-3	Chloromethane	50	66.6	133* [a]	59-132
124-48-1	Dibromochloromethane	50	54.8	110	80-125
75-34-3	1,1-Dichloroethane	50	50.5	101	78-121
107-06-2	1,2-Dichloroethane	50	68.2	136	66-137
75-35-4	1,1-Dichloroethene	50	50.0	100	73-124
156-59-2	cis-1,2-Dichloroethene	50	44.3	89	76-120
156-60-5	trans-1,2-Dichloroethene	50	46.9	94	73-119
78-87-5	1,2-Dichloropropane	50	50.8	102	82-117
10061-01-5	cis-1,3-Dichloropropene	50	48.5	97	81-120
10061-02-6	trans-1,3-Dichloropropene	50	51.1	102	81-125
100-41-4	Ethylbenzene	50	55.6	111	79-120
591-78-6	2-Hexanone	50	53.5	107	66-140
108-10-1	4-Methyl-2-pentanone(MIBK)	50	53.1	106	70-134
75-09-2	Methylene chloride	50	48.9	98	75-122
100-42-5	Styrene	50	55.8	112	80-125
79-34-5	1,1,2,2-Tetrachloroethane	50	53.3	107	76-117
127-18-4	Tetrachloroethene	50	52.7	105	69-130
108-88-3	Toluene	50	49.8	100	81-120
71-55-6	1,1,1-Trichloroethane	50	54.6	109	77-132
79-00-5	1,1,2-Trichloroethane	50	49.7	99	85-117
79-01-6	Trichloroethene	50	53.2	106	83-119
75-01-4	Vinyl chloride	50	63.2	126	65-135
1330-20-7	Xylene (total)	150	158	105	81-119

Blank Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA2990-BS	A94442.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	85%	79-119%
17060-07-0	1,2-Dichloroethane-D4	103%	68-129%
2037-26-5	Toluene-D8	91%	83-118%
460-00-4	4-Bromofluorobenzene	108%	82-120%

(a) High percent recoveries and no associated positive found in the QC batch.

Matrix Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N93391-4MS	A94451.D	1	03/22/05	NDJ	n/a	n/a	VA2990
N93391-4	A94440.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Compound	N93391-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	58.8	118	47-163
71-43-2	Benzene	ND		50	46.5	93	51-138
75-27-4	Bromodichloromethane	ND		50	53.6	107	80-128
75-25-2	Bromoform	ND		50	51.0	102	68-137
74-83-9	Bromomethane	ND		50	55.9	112	61-141
78-93-3	2-Butanone (MEK)	ND		50	47.6	95	55-149
75-15-0	Carbon disulfide	ND		50	53.0	106	59-128
56-23-5	Carbon tetrachloride	ND		50	61.7	123	71-143
108-90-7	Chlorobenzene	ND		50	48.7	97	78-120
75-00-3	Chloroethane	ND		50	51.3	103	67-139
67-66-3	Chloroform	0.64	J	50	51.3	101	78-126
74-87-3	Chloromethane	ND		50	57.4	115	57-134
124-48-1	Dibromochloromethane	ND		50	52.9	106	79-127
75-34-3	1,1-Dichloroethane	ND		50	49.1	98	75-125
107-06-2	1,2-Dichloroethane	ND		50	66.0	132	63-142
75-35-4	1,1-Dichloroethene	ND		50	46.9	94	69-129
156-59-2	cis-1,2-Dichloroethene	1.4		50	45.4	88	73-127
156-60-5	trans-1,2-Dichloroethene	ND		50	44.4	89	71-123
78-87-5	1,2-Dichloropropane	ND		50	49.4	99	81-120
10061-01-5	cis-1,3-Dichloropropene	ND		50	45.6	91	78-121
10061-02-6	trans-1,3-Dichloropropene	ND		50	49.6	99	77-128
100-41-4	Ethylbenzene	ND		50	51.0	102	51-142
591-78-6	2-Hexanone	ND		50	51.7	103	64-145
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	51.8	104	66-140
75-09-2	Methylene chloride	ND		50	45.3	91	73-126
100-42-5	Styrene	ND		50	48.6	97	79-130
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	50.9	102	74-121
127-18-4	Tetrachloroethene	13.6		50	64.2	101	70-128
108-88-3	Toluene	ND		50	46.4	93	49-147
71-55-6	1,1,1-Trichloroethane	ND		50	54.0	108	74-136
79-00-5	1,1,2-Trichloroethane	ND		50	48.2	96	83-121
79-01-6	Trichloroethene	1.4		50	53.3	104	75-128
75-01-4	Vinyl chloride	ND		50	57.3	115	60-141
1330-20-7	Xylene (total)	ND		150	147	98	44-146

Matrix Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N93391-4MS	A94451.D	1	03/22/05	NDJ	n/a	n/a	VA2990
N93391-4	A94440.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Surrogate Recoveries	MS	N93391-4	Limits
1868-53-7	Dibromofluoromethane	85%	86%	79-119%
17060-07-0	1,2-Dichloroethane-D4	105%	107%	68-129%
2037-26-5	Toluene-D8	90%	87%	83-118%
460-00-4	4-Bromofluorobenzene	107%	116%	82-120%

Duplicate Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N93391-3DUP	A94450.D	1	03/22/05	NDJ	n/a	n/a	VA2990
N93391-3	A94439.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Compound	N93391-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	10
71-43-2	Benzene	ND		ND		nc	17
75-27-4	Bromodichloromethane	ND		ND		nc	10
75-25-2	Bromoform	ND		ND		nc	10
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	10
75-15-0	Carbon disulfide	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	10
108-90-7	Chlorobenzene	ND		ND		nc	10
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	4.6		4.6		0	10
74-87-3	Chloromethane	ND		ND		nc	10
124-48-1	Dibromochloromethane	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	ND		ND		nc	10
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	10
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	10
78-87-5	1,2-Dichloropropane	ND		ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	10
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	10
100-41-4	Ethylbenzene	ND		ND		nc	19
591-78-6	2-Hexanone	ND		ND		nc	10
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	19
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	10
1330-20-7	Xylene (total)	ND		ND		nc	16

Duplicate Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
N93391-3DUP	A94450.D	1	03/22/05	NDJ	n/a	n/a	VA2990
N93391-3	A94439.D	1	03/22/05	NDJ	n/a	n/a	VA2990

The QC reported here applies to the following samples: Method: SW846 8260B

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5, N93379-6

CAS No.	Surrogate Recoveries	DUP	N93391-3	Limits
1868-53-7	Dibromofluoromethane	87%	86%	79-119%
17060-07-0	1,2-Dichloroethane-D4	109%	107%	68-129%
2037-26-5	Toluene-D8	87%	87%	83-118%
460-00-4	4-Bromofluorobenzene	115%	115%	82-120%

Instrument Performance Check (BFB)

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample:	VA2955-BFB	Injection Date:	02/28/05
Lab File ID:	A93585.D	Injection Time:	13:43
Instrument ID:	GCMSA		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6075	16.2		Pass
75	30.0 - 60.0% of mass 95	16435	43.9		Pass
95	Base peak, 100% relative abundance	37405	100.0		Pass
96	5.0 - 9.0% of mass 95	2582	6.9		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	37288	99.7		Pass
175	5.0 - 9.0% of mass 174	2670	7.1	(7.2) [a]	Pass
176	95.0 - 101.0% of mass 174	36416	97.4	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	2428	6.5	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA2955-IC2955	A93586.D	02/28/05	14:14	00:31	Initial cal 1
VA2955-IC2955	A93587.D	02/28/05	14:44	01:01	Initial cal 2
VA2955-IC2955	A93588.D	02/28/05	15:13	01:30	Initial cal 5
VA2955-IC2955	A93589.D	02/28/05	15:40	01:57	Initial cal 20
VA2955-ICC2955	A93590.D	02/28/05	16:21	02:38	Initial cal 50
VA2955-IC2955	A93591.D	02/28/05	16:50	03:07	Initial cal 100
VA2955-IC2955	A93592.D	02/28/05	17:17	03:34	Initial cal 200

Instrument Performance Check (BFB)

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample:	VA2990-BFB	Injection Date:	03/21/05
Lab File ID:	A94433.D	Injection Time:	23:18
Instrument ID:	GCMSA		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.95 - 40.0% of mass 95	9949	20.5		Pass
75	30.0 - 60.0% of mass 95	24779	51.2		Pass
95	Base peak, 100% relative abundance	48440	100.0		Pass
96	5.0 - 9.0% of mass 95	3309	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 150.0% of mass 95	48235	99.6		Pass
175	5.0 - 9.0% of mass 174	3419	7.1	(7.1) [a]	Pass
176	95.0 - 101.0% of mass 174	47427	97.9	(98.3) [a]	Pass
177	5.0 - 9.0% of mass 176	3074	6.3	(6.5) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA2990-CC2955	A94434.D	03/22/05	00:18	01:00	Continuing cal 20
VA2990-MB1	A94436.D	03/22/05	01:17	01:59	Method Blank
ZZZZZZ	A94437.D	03/22/05	01:46	02:28	(unrelated sample)
ZZZZZZ	A94438.D	03/22/05	02:16	02:58	(unrelated sample)
N93391-3	A94439.D	03/22/05	02:45	03:27	(used for QC only; not part of job N93379)
N93391-4	A94440.D	03/22/05	03:15	03:57	(used for QC only; not part of job N93379)
ZZZZZZ	A94441.D	03/22/05	03:44	04:26	(unrelated sample)
VA2990-BS	A94442.D	03/22/05	04:14	04:56	Blank Spike
N93379-1	A94444.D	03/22/05	05:13	05:55	WELL AY
N93379-2	A94445.D	03/22/05	05:43	06:25	WELL X
N93379-3	A94446.D	03/22/05	06:27	07:09	WELL AV
N93379-4	A94447.D	03/22/05	06:57	07:39	WELL AVD
N93379-5	A94448.D	03/22/05	07:26	08:08	FB-031505
N93379-6	A94449.D	03/22/05	07:56	08:38	TRIP BLANK
N93391-3DUP	A94450.D	03/22/05	08:26	09:08	Duplicate
N93391-4MS	A94451.D	03/22/05	08:56	09:38	Matrix Spike
ZZZZZZ	A94452.D	03/22/05	09:30	10:12	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Check Std:	VA2990-CC2955	Injection Date:	03/22/05
Lab File ID:	A94434.D	Injection Time:	00:18
Instrument ID:	GCMSA	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	104408	6.77	124013	9.17	162300	10.11	168719	13.57	111994	16.21
Upper Limit [a]	208816	7.27	248026	9.67	324600	10.61	337438	14.07	223988	16.71
Lower Limit [b]	52204	6.27	62007	8.67	81150	9.61	84360	13.07	55997	15.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VA2990-MB1	105413	6.77	119136	9.17	158088	10.11	161683	13.56	97691	16.21
ZZZZZZ	106544	6.77	120487	9.17	159851	10.11	162976	13.56	97706	16.21
ZZZZZZ	101009	6.77	113642	9.17	149861	10.11	155384	13.56	92146	16.21
N93391-3	102054	6.78	107192	9.17	144510	10.11	149685	13.57	88975	16.21
N93391-4	102275	6.77	111983	9.17	148004	10.11	152869	13.57	90854	16.21
ZZZZZZ	98502	6.77	100182	9.17	134733	10.11	139055	13.56	82147	16.21
VA2990-BS	96311	6.77	108558	9.17	143936	10.11	154216	13.57	105177	16.21
N93379-1	103014	6.77	110179	9.17	146955	10.11	151089	13.57	90934	16.20
N93379-2	98730	6.77	102885	9.17	137953	10.11	141938	13.56	89222	16.21
N93379-3	95007	6.77	103245	9.17	137633	10.11	142913	13.57	92848	16.20
N93379-4	101322	6.76	107547	9.17	144383	10.11	148737	13.57	96926	16.21
N93379-5	104607	6.77	116729	9.17	153426	10.11	157916	13.57	94260	16.21
N93379-6	95564	6.77	106370	9.17	141632	10.11	146081	13.56	86401	16.21
N93391-3DUP	95675	6.76	103827	9.17	139325	10.11	140637	13.56	84821	16.21
N93391-4MS	99590	6.77	107518	9.17	143585	10.11	153351	13.56	104312	16.20
ZZZZZZ	103285	6.76	108881	9.17	144765	10.11	151678	13.56	97406	16.20

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Method: SW846 8260B Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
N93379-1	A94444.D	87.0	107.0	87.0	113.0
N93379-2	A94445.D	88.0	110.0	87.0	111.0
N93379-3	A94446.D	87.0	110.0	87.0	108.0
N93379-4	A94447.D	87.0	107.0	87.0	108.0
N93379-5	A94448.D	85.0	104.0	87.0	115.0
N93379-6	A94449.D	86.0	107.0	87.0	117.0
N93391-3DUP	A94450.D	87.0	109.0	87.0	115.0
N93391-4MS	A94451.D	85.0	105.0	90.0	107.0
VA2990-BS	A94442.D	85.0	103.0	91.0	108.0
VA2990-MB1	A94436.D	84.0	100.0	86.0	113.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-119%
S2 = 1,2-Dichloroethane-D4	68-129%
S3 = Toluene-D8	83-118%
S4 = 4-Bromofluorobenzene	82-120%

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2955-ICC2955
Lab FileID: A93590.D

Response Factor Report MSA

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Tue Mar 01 09:35:12 2005
Response via : Initial Calibration

Calibration Files
5 =A93588.D 2 =A93587.D 20 =A93589.D 50 =A93590.D
100 =A93591.D 1 =A93586.D 200 =A93592.D

Compound	5	2	20	50	100	1	200	Avg	%RSD
1) I Tert Butyl Alcohol-d9	ISTD								
2)M ethanol	0.062	0.095	0.071	0.078	0.065	0.057	0.060	0.070	18.86
----- Linear regression ----- Coefficient = 0.9948									
Response Ratio = 0.04349 + 0.06062 *A									
3)M tertiary butyl al	0.883	0.824	0.802	0.876	0.867	0.825	0.873	0.850	3.78
4) I pentafluorobenzene	ISTD								
5)M chlorodifluoromet	0.685	0.659	0.604	0.695	0.693	0.631	0.701	0.667	5.54
6)M dichlorodifluorom	0.593	0.463	0.520	0.541	0.509	0.430	0.544	0.514	10.50
7)M chloromethane	0.713	0.657	0.634	0.662	0.625	0.656	0.610	0.651	5.12
8)M vinyl chloride	0.693	0.609	0.645	0.692	0.667	0.597	0.713	0.659	6.71
9)M bromomethane	0.542	0.477	0.470	0.486	0.441	0.528	0.437	0.483	8.30
10)M chloroethane	0.432	0.412	0.370	0.362	0.318	0.443		0.389	12.28
11)M trichlorofluorome	0.899	0.756	0.825	0.866	0.817	0.734	0.851	0.821	7.19
12)M ethyl ether	0.314	0.293	0.315	0.342	0.318	0.287	0.313	0.312	5.73
13)M acrolein	0.082	0.073	0.070	0.070	0.063	0.084	0.062	0.072	11.62
14)M 1,1-dichloroethen	0.576	0.579	0.530	0.563	0.523	0.563	0.536	0.553	4.18
15)M acetone	0.248		0.199	0.200	0.178		0.180	0.201	13.97
16)M allyl chloride	0.360	0.335	0.342	0.365	0.348		0.362	0.352	3.50
17)M acetonitrile	0.068	0.062	0.064	0.066	0.063	0.076	0.056	0.065	9.23
18)M iodomethane	1.183	1.082	1.109	1.193	1.134	1.104	1.176	1.140	3.86
19)M iso-butyl alcohol	0.018	0.014	0.017	0.019	0.018		0.016	0.017	9.31
20)M carbon disulfide	1.769	1.685	1.644	1.756	1.661	1.726	1.721	1.709	2.77
21)M methylene chlorid	0.641	0.602	0.604	0.652	0.619	0.641	0.637	0.628	3.14
22)M methyl acetate	0.562	0.574	0.487	0.522	0.485	0.607	0.486	0.532	9.32
23)M methyl tert butyl	1.918	1.783	1.790	1.915	1.835	1.896	1.853	1.856	3.04
24)M trans-1,2-dichlor	0.620	0.632	0.563	0.596	0.561	0.636	0.568	0.597	5.52
25)M di-isopropyl ethe	1.463	1.355	1.300	1.415	1.379	1.374	1.348	1.376	3.76
26)M ethyl tert-butyl	1.448	1.346	1.295	1.418	1.386	1.295	1.381	1.367	4.27
27)M 2-butanone	0.155		0.177	0.186	0.191		0.194	0.181	8.65
28)M 1,1-dichloroethan	0.722	0.686	0.689	0.732	0.697	0.675	0.713	0.702	2.97
29)M chloroprene	0.502	0.459	0.430	0.484	0.473	0.454	0.466	0.467	4.89
30)M acrylonitrile	0.248	0.216	0.234	0.253	0.238	0.228	0.245	0.238	5.34
31)M vinyl acetate	0.066		0.070	0.077	0.076		0.077	0.073	6.62
32)M ethyl acetate	0.055		0.057	0.061	0.059		0.057	0.058	3.91
33)M 2,2-dichloropropa	0.650	0.604	0.595	0.637	0.597	0.634	0.596	0.616	3.79
34)M cis-1,2-dichloroe	0.455	0.417	0.429	0.463	0.444	0.424	0.454	0.441	4.02
35)M propionitrile	0.064	0.052	0.062	0.066	0.062	0.056	0.063	0.061	7.96
36)M bromochloromethan	0.228	0.188	0.231	0.250	0.239	0.211	0.248	0.228	9.70
37)M tetrahydrofuran	0.135	0.110	0.133	0.143	0.136		0.137	0.132	8.50
38)M chloroform	0.726	0.678	0.690	0.744	0.707	0.730	0.722	0.714	3.26
39)S dibromofluorometh	0.560	0.582	0.514	0.539	0.522	0.610	0.534	0.551	6.29
40)S 1,2-dichloroethan	0.573	0.570	0.538	0.562	0.532	0.590	0.538	0.558	3.94
41)M freon 113	0.522	0.479	0.444	0.519	0.500	0.443	0.496	0.486	6.71
42)M methacrylonitrile	0.270	0.240	0.267	0.286	0.270	0.194	0.275	0.257	12.12

5.8

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2955-ICC2955
Lab FileID: A93590.D

43)M 1,1,1-trichloroet	0.617	0.583	0.595	0.647	0.623	0.627	0.635	0.618	3.60
44)M tert-amyl methyl	1.385	1.322	1.243	1.327	1.273	1.314	1.221	1.298	4.32
45) I 1,4-difluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	----------	
46)M Di-isobutylene	0.572	0.567	0.587	0.659	0.618	0.528	0.647	0.597	7.82
47)M epichlorohydrin	0.035	0.029	0.033	0.036	0.035	0.025	0.035	0.033	12.48
48)M n-butyl alcohol	0.011		0.010	0.011	0.011		0.010	0.011	3.56
49)M carbon tetrachlor	0.393	0.359	0.385	0.417	0.403	0.369	0.402	0.390	5.19
50)M 1,1-dichloroprope	0.369	0.355	0.345	0.374	0.357	0.318	0.354	0.353	5.15
51)M hexane	0.306	0.299	0.262	0.301	0.291	0.289	0.285	0.290	5.00
52)M benzene	1.106	1.064	1.040	1.096	1.049	1.093	1.031	1.069	2.80
53)M heptane	0.148	0.137	0.125	0.145	0.140		0.136	0.139	5.95
54)M isopropyl acetate	0.603	0.538	0.543	0.581	0.573	0.564	0.545	0.564	4.20
55)M 1,2-dichloroethan	0.367	0.334	0.361	0.383	0.367	0.339	0.359	0.358	4.71
56)M trichloroethene	0.283	0.266	0.280	0.299	0.288	0.271	0.285	0.282	3.84
57)M 2-nitropropane	0.035		0.034	0.039	0.038		0.035	0.036	5.74
58)m methylcyclohexane	0.445	0.411	0.366	0.434	0.428	0.430	0.420	0.419	6.13
59)M 2-chloroethyl vin	0.181	0.169	0.174	0.192	0.188	0.178	0.179	0.180	4.31
60)M methyl methacryla	0.209		0.200	0.218	0.213		0.215	0.211	3.37
61)M 1,2-dichloropropa	0.292	0.266	0.288	0.308	0.295	0.282	0.291	0.289	4.42
62)M dibromomethane	0.183	0.176	0.187	0.200	0.195	0.168	0.195	0.186	6.14
63)M 1,4-dioxane	0.004		0.004	0.004	0.004		0.004	0.004#	3.36
64)M bromodichlorometh	0.399	0.370	0.391	0.423	0.410	0.373	0.413	0.397	5.06
65)M cis-1,3-dichlorop	0.514	0.474	0.493	0.530	0.518	0.457	0.518	0.501	5.35
66)S toluene-d8 (s)	1.393	1.411	1.289	1.354	1.314		1.307	1.345	3.67
67)M 4-methyl-2-pentan	0.512	0.479	0.491	0.531	0.512	0.531	0.507	0.509	3.83
68)M toluene	0.716	0.680	0.685	0.738	0.714	0.746	0.717	0.714	3.41
69)M 3-methyl-1-butano	0.018		0.017	0.019	0.018		0.017	0.018	4.13
70)M trans-1,3-dichlor	0.460	0.431	0.462	0.499	0.486	0.450	0.490	0.468	5.22
71)M ethyl methacrylat	0.385		0.391	0.420	0.410		0.409	0.403	3.59
72)M 1,1,2-trichloroet	0.231	0.212	0.227	0.244	0.242	0.232	0.245	0.233	5.07
73)M 2-hexanone	0.225		0.221	0.236	0.224		0.219	0.225	2.91
74) I chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	----------	
75)M tetrachloroethene	0.268	0.263	0.256	0.266	0.257	0.261	0.256	0.261	1.80
76)M 1,3-dichloropropa	0.414	0.385	0.405	0.422	0.402	0.400	0.398	0.404	2.98
77)M butyl acetate	0.196	0.182	0.183	0.197	0.190	0.168	0.184	0.186	5.25
78)M dibromochlorometh	0.335	0.294	0.328	0.349	0.339	0.318	0.343	0.329	5.64
79)M 1,2-dibromoethane	0.276	0.245	0.271	0.281	0.276	0.259	0.279	0.269	4.87
80)M chlorobenzene	0.827	0.781	0.782	0.827	0.799	0.809	0.806	0.804	2.33
81)M 1,1,1,2-tetrachlo	0.323	0.292	0.306	0.324	0.317	0.306	0.318	0.312	3.76
82)M ethylbenzene	1.260	1.199	1.210	1.263	1.208	1.277	1.194	1.230	2.85
83)M m,p-xylene	0.522	0.494	0.500	0.523	0.501	0.527	0.498	0.510	2.76
84)M o-xylene	0.535	0.508	0.520	0.544	0.533	0.550	0.535	0.532	2.70
85)M styrene	0.852	0.793	0.831	0.870	0.847	0.811	0.847	0.836	3.15
86)M bromoform	0.278	0.237	0.275	0.293	0.290	0.235	0.303	0.273	9.91
87) I 1,4-dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	----------	
88)M isopropylbenzene	1.775	1.705	1.704	1.858	1.761	1.802	1.845	1.779	3.44
89)S 4-bromofluorobenz	0.753	0.776	0.703	0.735	0.705		0.733	0.734	3.83
90)M bromobenzene	0.598	0.541	0.584	0.621	0.602	0.585	0.626	0.594	4.78
91)M 1,1,2,2-tetrachlo	0.573	0.527	0.551	0.589	0.566	0.573	0.588	0.567	3.87
92)M trans-1,4-dichlor	0.149	0.133	0.151	0.163	0.156	0.113	0.162	0.147	12.21
93)M 1,2,3-trichloropr	0.157	0.137	0.153	0.165	0.156	0.120	0.162	0.150	10.62
94)M n-propylbenzene	2.250	2.149	2.146	2.283	2.187	2.302	2.253	2.225	2.85
95)M 2-chlorotoluene	1.606	1.525	1.516	1.638	1.576	1.598	1.625	1.584	2.99
96)M 4-chlorotoluene	1.488	1.369	1.388	1.481	1.435	1.428	1.488	1.439	3.38
97)M 1,3,5-trimethylbe	1.693	1.567	1.614	1.726	1.649	1.713	1.690	1.665	3.45
98)M tert-butylbenzene	1.505	1.462	1.474	1.590	1.516	1.532	1.569	1.521	3.08
99)M pentachloroethane	0.430	0.382	0.415	0.445	0.433	0.400	0.443	0.421	5.55

5.8

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2955-ICC2955
Lab FileID: A93590.D

100)M 1,2,4-trimethylbe	1.758	1.666	1.707	1.819	1.743	1.783	1.756	1.748	2.84
101)M sec-butylbenzene	2.162	2.081	2.069	2.227	2.136	2.229	2.181	2.155	2.97
102)M 1,3-dichlorobenze	1.188	1.087	1.123	1.206	1.151	1.222	1.163	1.163	4.09
103)M p-isopropyltoluen	1.896	1.805	1.820	1.972	1.885	1.923	1.898	1.886	3.04
104)M 1,4-dichlorobenze	1.202	1.123	1.143	1.226	1.183	1.213	1.200	1.184	3.19
105)M 1,2-dichlorobenze	1.107	1.061	1.090	1.167	1.126	1.125	1.129	1.115	3.00
106)M n-butylbenzene	1.589	1.504	1.538	1.634	1.567	1.605	1.563	1.571	2.74
107)M 1,2-dibromo-3-chl	0.105	0.086	0.107	0.114	0.110		0.113	0.106	9.91
108)M 1,2,4-trichlorobe	0.724	0.703	0.724	0.806	0.784	0.736	0.808	0.755	5.70
109)M hexachlorobutadie	0.336	0.334	0.330	0.356	0.340	0.327	0.342	0.338	2.85
110)M naphthalene	1.572	1.422	1.591	1.730	1.669	1.548	1.699	1.605	6.57
111)M 1,2,3-trichlorobe	0.638	0.629	0.644	0.708	0.691	0.660	0.706	0.668	4.97
112)M hexachloroethane	0.379	0.349	0.376	0.416	0.408	0.357	0.423	0.387	7.47
113) 2-methylnaphthale								0.000#	-1.00
114)M Cyclohexane	0.457	0.430	0.444	0.477	0.441	0.393	0.455	0.442	5.94

(#) = Out of Range

MA2955.M Wed Mar 02 10:09:55 2005 MSA

5.8

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2990-CC2955
Lab FileID: A94434.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\A94434.D
Acq On : 22 Mar 2005 12:18 am
Sample : CC2955-20
Misc : MS12433,VA2990,W,,,,1
MS Integration Params: LSCINT.P

Vial: 29
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	77	-0.03	6.77
			True	Calc.	% Drift			
2	M	ethanol	2000.000	2654.118	-32.7#	99	-0.03	5.48
			AvgRF	CCRF	% Dev			
3	M	tertiary butyl alcohol	0.850	0.905	-6.5	87	-0.02	6.90
4	I	pentafluorobenzene	1.000	1.000	0.0	89	-0.02	9.17
5	M	chlorodifluoromethane	0.667	0.786	-17.8	116	-0.02	3.48
6	M	dichlorodifluoromethane	0.514	0.680	-32.3#	117	-0.02	3.47
7	M	chloromethane	0.651	0.770	-18.3	108	-0.03	3.74
8	M	vinyl chloride	0.659	0.750	-13.8	104	-0.02	3.98
9	M	bromomethane	0.483	0.563	-16.6	107	-0.02	4.60
10	M	chloroethane	0.389	0.411	-5.7	99	-0.01	4.79
11	M	trichlorofluoromethane	0.821	1.080	-31.5#	117	-0.04	5.26
12	M	ethyl ether	0.312	0.312	0.0	88	-0.02	5.67
13	M	acrolein	0.072	0.129	-79.2#	163	-0.02	5.87
14	M	1,1-dichloroethene	0.553	0.537	2.9	90	-0.03	6.08
15	M	acetone	0.201	0.237	-17.9	106	-0.02	6.10
16	M	allyl chloride	0.352	0.340	3.4	89	-0.02	6.61
17	M	acetonitrile	0.065	0.063	3.1	89	-0.03	6.52
18	M	iodomethane	1.140	1.136	0.4	91	-0.03	6.33
19	M	iso-butyl alcohol	0.017	0.017	0.0	85	-0.02	9.45
20	M	carbon disulfide	1.709	1.937	-13.3	105	-0.03	6.47
21	M	methylene chloride	0.628	0.612	2.5	90	-0.03	6.79
22	M	methyl acetate	0.532	0.523	1.7	96	-0.02	6.60
23	M	methyl tert butyl ether	1.856	1.808	2.6	90	-0.03	7.19
24	M	trans-1,2-dichloroethene	0.597	0.568	4.9	90	-0.02	7.21
25	M	di-isopropyl ether	1.376	1.354	1.6	93	-0.03	7.85
26	M	ethyl tert-butyl ether	1.367	1.294	5.3	89	-0.03	8.34
27	M	2-butanone	0.181	0.161	11.0	81	-0.02	8.55
28	M	1,1-dichloroethane	0.702	0.714	-1.7	92	-0.03	7.79
29	M	chloroprene	0.467	0.501	-7.3	104	-0.02	7.93
30	M	acrylonitrile	0.238	0.229	3.8	87	-0.03	7.11
31	M	vinyl acetate	0.073	0.054	26.0#	68	-0.02	7.81
32	M	ethyl acetate	0.058	0.054	6.9	84	-0.02	8.60
33	M	2,2-dichloropropane	0.616	0.552	10.4	83	-0.03	8.59
34	M	cis-1,2-dichloroethene	0.441	0.406	7.9	84	-0.02	8.58
35	M	propionitrile	0.061	0.059	3.3	86	-0.02	8.61
36	M	bromochloromethane	0.228	0.220	3.5	85	-0.03	8.88
37	M	tetrahydrofuran	0.132	0.120	9.1	80	-0.02	8.96

5.8

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2990-CC2955
Lab FileID: A94434.D

38	M	chloroform	0.714	0.748	-4.8	97	-0.02	8.96
39	S	dibromofluoromethane (s)	0.551	0.451	18.1	78	-0.02	9.17
40	S	1,2-dichloroethane-d4 (s)	0.558	0.537	3.8	89	-0.03	9.61
41	M	freon 113	0.486	0.486	0.0	98	-0.03	6.08
42	M	methacrylonitrile	0.257	0.255	0.8	85	-0.03	8.82
43	M	1,1,1-trichloroethane	0.618	0.669	-8.3	100	-0.02	9.25
44	M	tert-amyl methyl ether	1.298	1.190	8.3	85	-0.03	9.79
45	I	1,4-difluorobenzene	1.000	1.000	0.0	82	-0.03	10.11
46	M	Di-isobutylene	0.597	0.570	4.5	79	-0.02	10.41
47	M	epichlorohydrin	0.033	0.032	3.0	78	-0.02	11.43
48	M	n-butyl alcohol	0.011	0.010#				
49	M	carbon tetrachloride	0.390	0.485	-24.4#	103	-0.03	9.47
50	M	1,1-dichloropropene	0.353	0.396	-12.2	93	-0.02	9.44
51	M	hexane	0.290	0.263	9.3	82	-0.03	7.59
52	M	benzene	1.069	1.086	-1.6	85	-0.03	9.71
53	M	heptane	0.139	0.117	15.8	77	-0.02	9.97
54	M	isopropyl acetate	0.564	0.590	-4.6	89	-0.03	9.67
55	M	1,2-dichloroethane	0.358	0.477	-33.2#	108	-0.02	9.70
56	M	trichloroethene	0.282	0.304	-7.8	89	-0.03	10.47
57	M	2-nitropropane	0.036	0.046	-27.8#	110	-0.02	11.33
58	m	methylcyclohexane	0.419	0.398	5.0	89	-0.03	10.74
59	M	2-chloroethyl vinyl ether	0.180	0.178	1.1	83	-0.03	11.33
60	M	methyl methacrylate	0.211	0.195	7.6	79	-0.02	10.79
61	M	1,2-dichloropropane	0.289	0.302	-4.5	86	-0.03	10.74
62	M	dibromomethane	0.186	0.208	-11.8	91	-0.02	10.89
63	M	1,4-dioxane	0.004	0.003#	25.0#	70	-0.03	10.86
64	M	bromodichloromethane	0.397	0.443	-11.6	92	-0.03	11.04
65	M	cis-1,3-dichloropropene	0.501	0.498	0.6	82	-0.03	11.55
66	S	toluene-d8 (s)	1.345	1.185	11.9	75	-0.02	11.89
67	M	4-methyl-2-pentanone	0.509	0.513	-0.8	85	-0.02	11.69
68	M	toluene	0.714	0.717	-0.4	85	-0.03	11.97
69	M	3-methyl-1-butanol	0.018	0.017	5.6	81	-0.02	11.71
70	M	trans-1,3-dichloropropene	0.468	0.485	-3.6	86	-0.02	12.17
71	M	ethyl methacrylate	0.403	0.374	7.2	78	-0.02	12.22
72	M	1,1,2-trichloroethane	0.233	0.238	-2.1	86	-0.03	12.40
73	M	2-hexanone	0.225	0.217	3.6	80	-0.02	12.63
74	I	chlorobenzene-d5	1.000	1.000	0.0	77	-0.03	13.57
75	M	tetrachloroethene	0.261	0.287	-10.0	86	-0.02	12.63
76	M	1,3-dichloropropane	0.404	0.454	-12.4	86	-0.02	12.60
77	M	butyl acetate	0.186	0.189	-1.6	79	-0.02	12.74
78	M	dibromochloromethane	0.329	0.368	-11.9	86	-0.02	12.89
79	M	1,2-dibromoethane	0.269	0.297	-10.4	84	-0.03	13.05
80	M	chlorobenzene	0.804	0.851	-5.8	83	-0.02	13.60
81	M	1,1,1,2-tetrachloroethane	0.312	0.352	-12.8	88	-0.03	13.67
82	M	ethylbenzene	1.230	1.370	-11.4	87	-0.02	13.69
83	M	m,p-xylene	0.510	0.545	-6.9	83	-0.02	13.82
84	M	o-xylene	0.532	0.559	-5.1	82	-0.02	14.28
85	M	styrene	0.836	0.875	-4.7	81	-0.03	14.29
86	M	bromoform	0.273	0.286	-4.8	80	-0.02	14.54
87	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	74	-0.03	16.21
88	M	isopropylbenzene	1.779	1.950	-9.6	84	-0.02	14.68
89	S	4-bromofluorobenzene (s)	0.734	0.772	-5.2	81	-0.02	14.88
90	M	bromobenzene	0.594	0.689	-16.0	87	-0.02	15.10
91	M	1,1,2,2-tetrachloroethane	0.567	0.613	-8.1	82	-0.03	14.99
92	M	trans-1,4-dichloro-2-bute	0.147	0.138	6.1	67	-0.02	15.05
93	M	1,2,3-trichloropropane	0.150	0.183	-22.0#	88	-0.02	15.07
94	M	n-propylbenzene	2.225	2.509	-12.8	86	-0.02	15.15

5.8

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: VA2990-CC2955
Lab FileID: A94434.D

95	M	2-chlorotoluene	1.584	1.842	-16.3	89	-0.02	15.29
96	M	4-chlorotoluene	1.439	1.674	-16.3	89	-0.02	15.41
97	M	1,3,5-trimethylbenzene	1.665	1.892	-13.6	86	-0.02	15.33
98	M	tert-butylbenzene	1.521	1.656	-8.9	83	-0.02	15.72
99	M	pentachloroethane	0.421	0.479	-13.8	85	-0.02	15.78
100	M	1,2,4-trimethylbenzene	1.748	2.020	-15.6	87	-0.02	15.77
101	M	sec-butylbenzene	2.155	2.297	-6.6	82	-0.02	15.97
102	M	1,3-dichlorobenzene	1.163	1.272	-9.4	83	-0.02	16.14
103	M	p-isopropyltoluene	1.886	1.997	-5.9	81	-0.02	16.11
104	M	1,4-dichlorobenzene	1.184	1.287	-8.7	83	-0.02	16.24
105	M	1,2-dichlorobenzene	1.115	1.217	-9.1	82	-0.03	16.67
106	M	n-butylbenzene	1.571	1.595	-1.5	76	-0.02	16.57
107	M	1,2-dibromo-3-chloropropa	0.106	0.113	-6.6	78	-0.02	17.52
108	M	1,2,4-trichlorobenzene	0.755	0.654	13.4	66	-0.03	18.44
109	M	hexachlorobutadiene	0.338	0.373	-10.4	83	-0.02	18.60
110	M	naphthalene	1.605	1.243	22.6#	58	-0.02	18.74
111	M	1,2,3-trichlorobenzene	0.668	0.578	13.5	66	-0.02	19.01
112	M	hexachloroethane	0.387	0.425	-9.8	83	-0.02	16.99
113		2-methylnaphthalene		----------NA----------				
114	M	Cyclohexane	0.442	0.541	-22.4#	90	-0.02	9.35

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

A93589.D MA2955.M Tue Mar 22 10:14:18 2005 MSA

5.8

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94444.D Vial: 39
Acq On : 22 Mar 2005 5:13 am Operator: NARESHJ
Sample : N93379-1 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 9:23 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	103014	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	110179	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	146955	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.57	117	151089	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.20	152	90934	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.16	113	52796	43.45	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 86.90%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	66014	53.73	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 107.46%			
66) toluene-d8 (s)	11.89	98	171165	43.31	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.62%			
89) 4-bromofluorobenzene (s)	14.88	95	75500	56.53	ug/L	-0.03
Spiked Amount 50.000	Range 82 - 120		Recovery = 113.06%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
A94444.D MA2955.M Tue Mar 22 10:24:45 2005 MSA

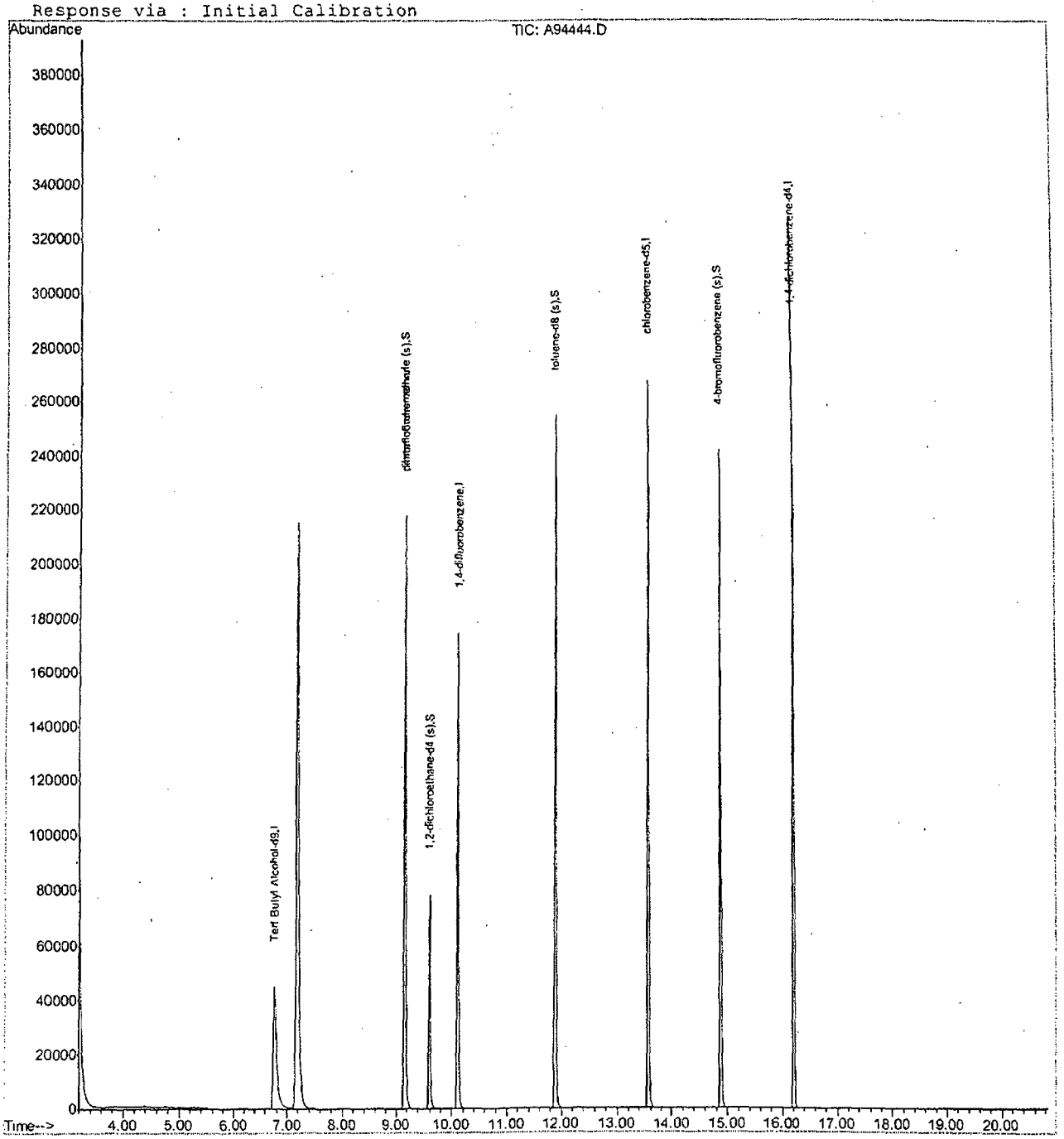
Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94444.D
Acq On : 22 Mar 2005 5:13 am
Sample : N93379-1
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 9:23 2005

Vial: 39
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



6.1.1

9

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94445.D Vial: 40
Acq On : 22 Mar 2005 5:43 am Operator: NARESHJ
Sample : N93379-2 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:58 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	98730	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	102885	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	137953	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.56	117	141938	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.21	152	89222	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.16	113	49831	43.92	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 87.84%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	62901	54.83	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 109.66%			
66) toluene-d8 (s)	11.89	98	160546	43.28	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.56%			
89) 4-bromofluorobenzene (s)	14.88	95	72601	55.41	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 110.82%			
Target Compounds						Qvalue
82) ethylbenzene	13.69	91	2913	0.83	ug/L	95

(#) = qualifier out of range (m) = manual integration

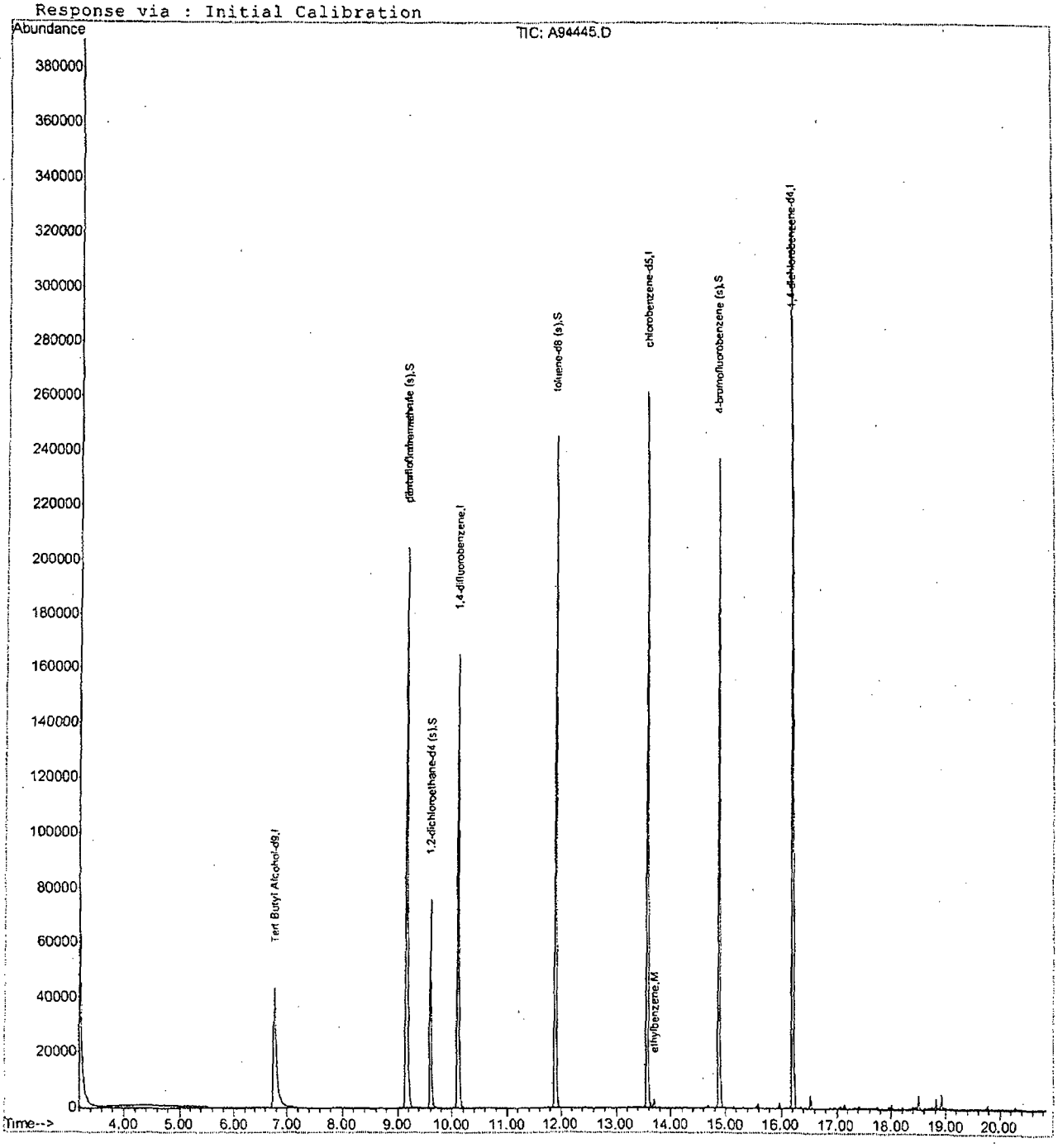
Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94445.D
Acq On : 22 Mar 2005 5:43 am
Sample : N93379-2
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:58 2005

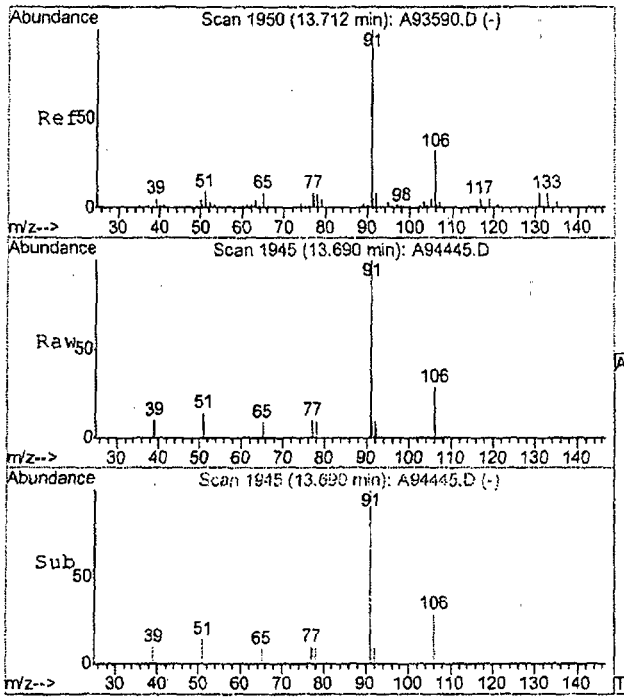
Vial: 40
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



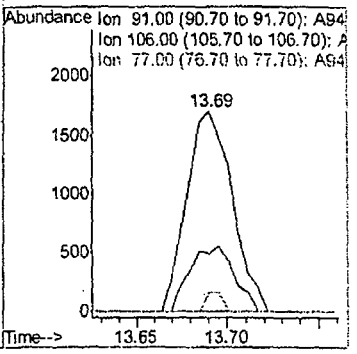
A94445.D MA2955.M Tue Mar 22 10:59:10 2005 MSA



#82
ethylbenzene
Concen: 0.83 ug/L
RT: 13.69 min Scan# 1945
Delta R.T. -0.02 min
Lab File: A94445.D
Acq: 22 Mar 2005 5:43 am

Tgt Ion: 91 Resp: 2913

Ion	Ratio	Lower	Upper
91	100		
106	29.2	2.4	62.4
77	9.6	0.0	38.1



6.1.2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94446.D
Acq On : 22 Mar 2005 6:27 am
Sample : N93379-3
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 9:59 2005

Vial: 41
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	95007	500.00	ug/L	-0.02
4) pentafluorobenzene	9.17	168	103245	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	137633	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.57	117	142913	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.20	152	92848	50.00	ug/L	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) dibromofluoromethane (s)	9.16	113	49493	43.47	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 86.94%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	63588	55.23	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 110.46%			
66) toluene-d8 (s)	11.89	98	161794	43.72	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.44%			
89) 4-bromofluorobenzene (s)	14.88	95	73863	54.17	ug/L	-0.03
Spiked Amount 50.000	Range 82 - 120		Recovery = 108.34%			

Target Compounds Qvalue

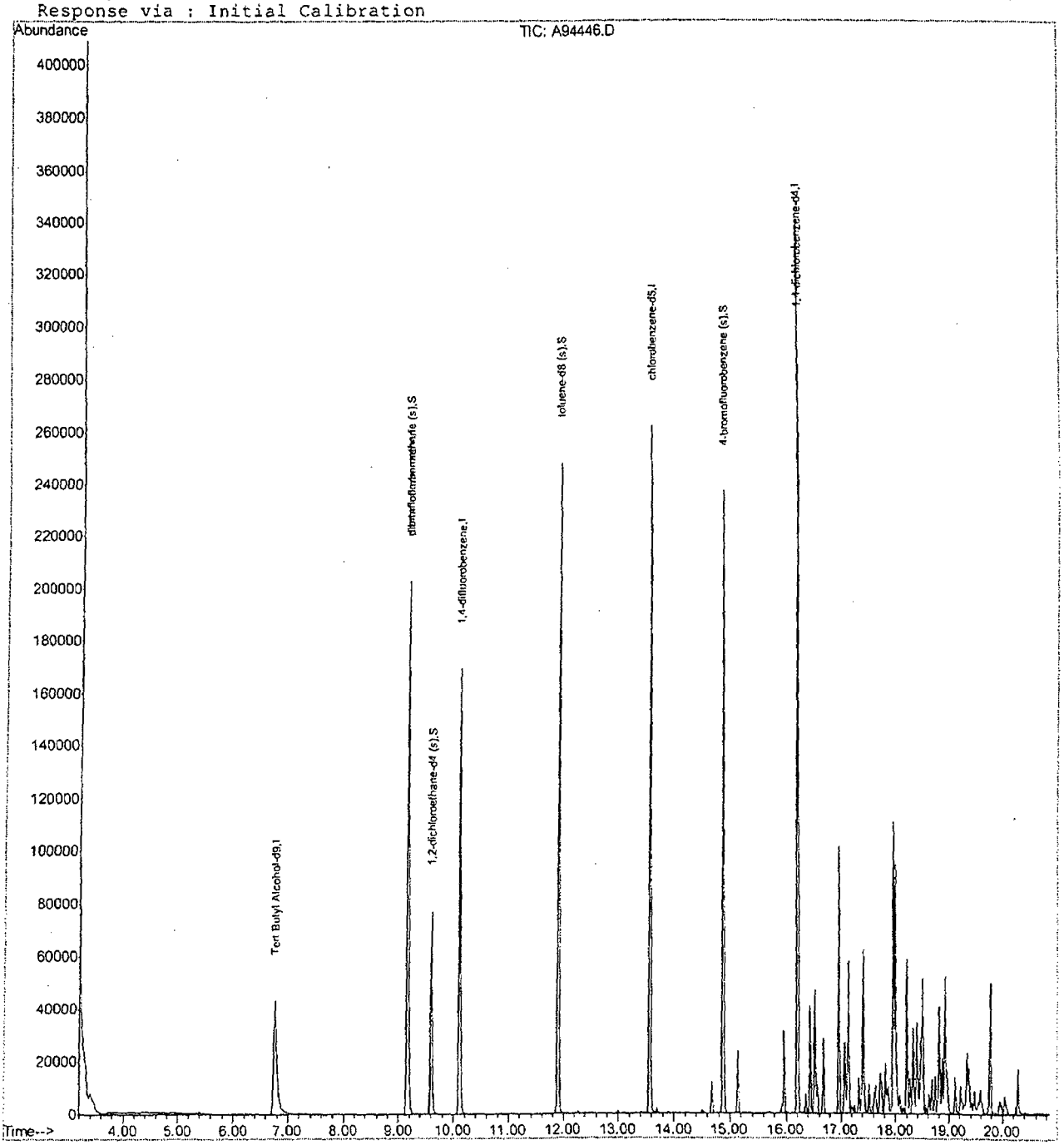
(#) = qualifier out of range (m) = manual integration
A94446.D MA2955.M Tue Mar 22 10:25:11 2005 MSA

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94446.D
Acq On : 22 Mar 2005 6:27 am
Sample : N93379-3
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 9:59 2005

Vial: 41
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00
Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



6.1.3 6

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94447.D Vial: 42
Acq On : 22 Mar 2005 6:57 am Operator: NARESHJ
Sample : N93379-4 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:00 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.76	65	101322	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	107547	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	144383	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.57	117	148737	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.21	152	96926	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.16	113	51748	43.63	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 87.26%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	64310	53.62	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 107.24%			
66) toluene-d8 (s)	11.89	98	169137	43.56	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.12%			
89) 4-bromofluorobenzene (s)	14.88	95	76895	54.02	ug/L	-0.03
Spiked Amount 50.000	Range 82 - 120		Recovery = 108.04%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
A94447.D MA2955.M Tue Mar 22 10:25:24 2005 MSA

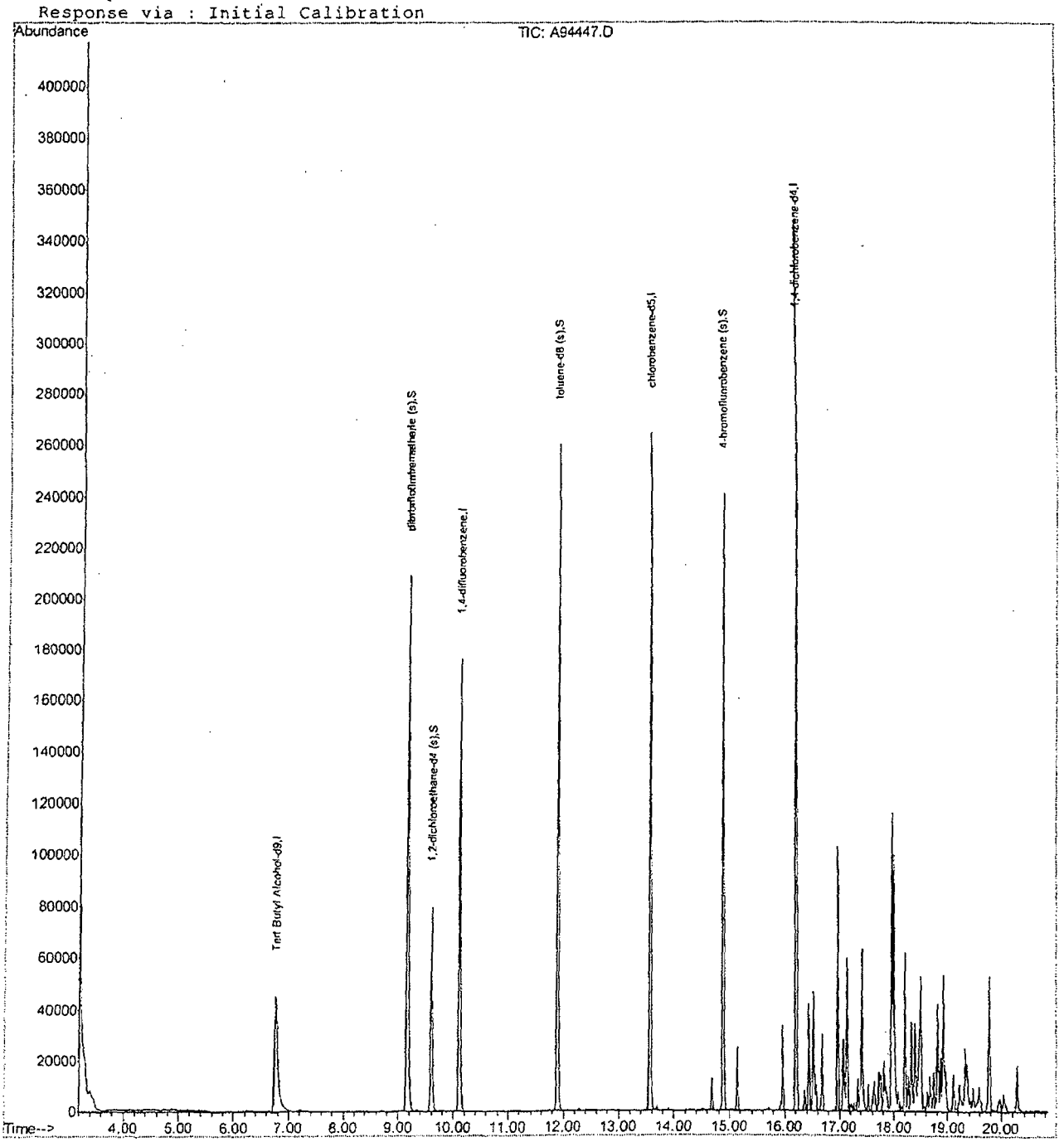
Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94447.D
Acq On : 22 Mar 2005 6:57 am
Sample : N93379-4
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:00 2005

Vial: 42
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



6.1.4

ACCUTEST.

N93379

[redacted]

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94448.D Vial: 43
Acq On : 22 Mar 2005 7:26 am Operator: NARESHJ
Sample : N93379-5 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:00 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	104607	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	116729	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	153426	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.57	117	157916	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.21	152	94260	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.16	113	54687	42.48	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 84.96%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	67421	51.80	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 103.60%			
66) toluene-d8 (s)	11.89	98	180377	43.72	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.44%			
89) 4-bromofluorobenzene (s)	14.88	95	79541	57.46	ug/L	-0.03
Spiked Amount 50.000	Range 82 - 120		Recovery = 114.92%			

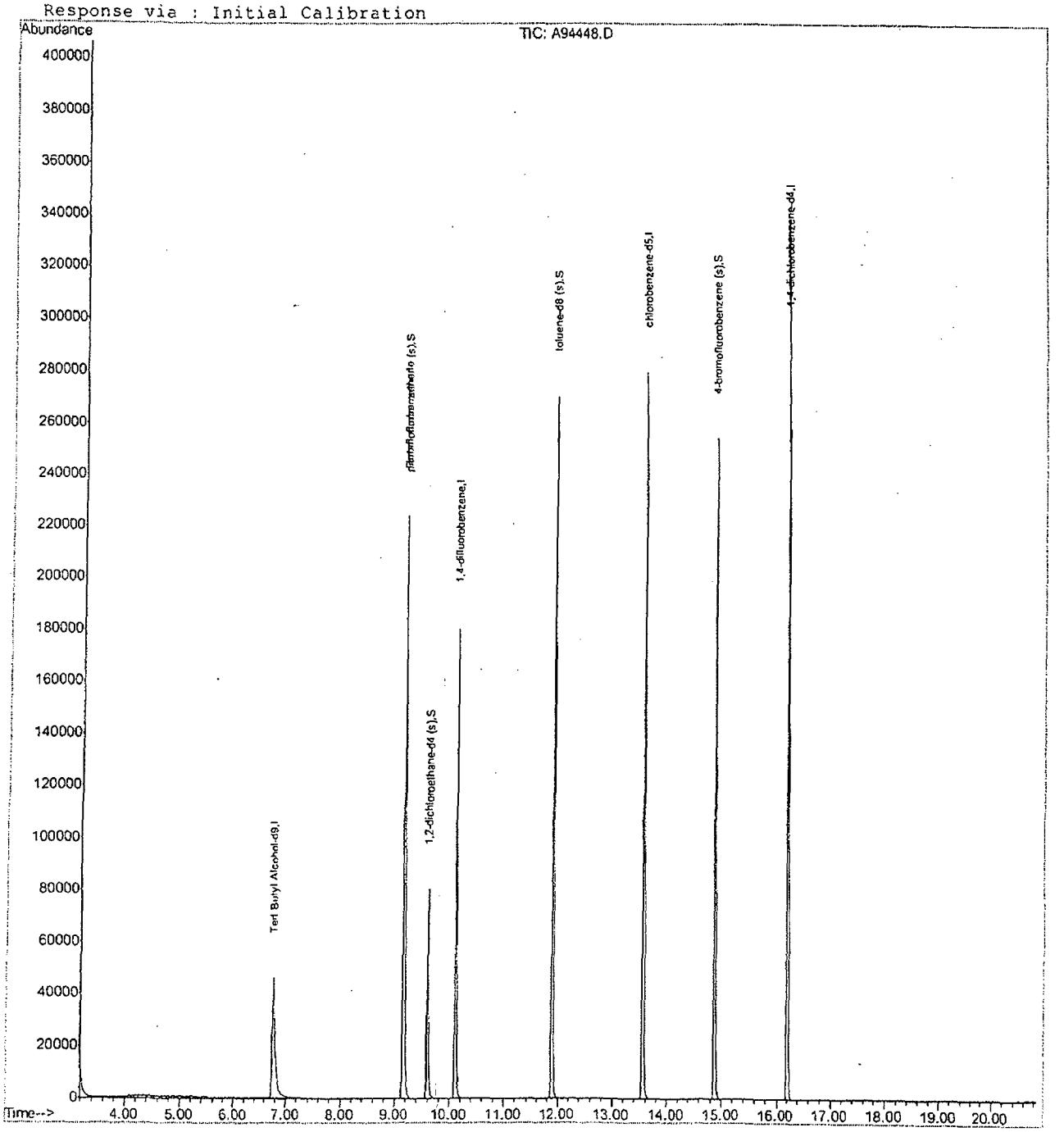
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
A94448.D MA2955.M Tue Mar 22 10:25:37 2005 MSA

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94448.D Vial: 43
Acq On : 22 Mar 2005 7:26 am Operator: NARESHJ
Sample : N93379-5 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:00 2005 Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



6.1.5

A94448.D MA2955.M Tue Mar 22 10:25:38 2005 MSA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94449.D Vial: 44
Acq On : 22 Mar 2005 7:56 am Operator: NARESHJ
Sample : N93379-6 Inst : MSA
Misc : MS12445,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:01 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	95564	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	106370	50.00	ug/L	-0.03
45) 1,4-difluorobenzene	10.11	114	141632	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.56	117	146081	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.21	152	86401	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.16	113	50623	43.15	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 86.30%			
40) 1,2-dichloroethane-d4 (s)	9.59	65	63545	53.57	ug/L	-0.04
Spiked Amount 50.000	Range 68 - 129		Recovery = 107.14%			
66) toluene-d8 (s)	11.89	98	166245	43.65	ug/L	-0.03
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.30%			
89) 4-bromofluorobenzene (s)	14.88	95	73973	58.30	ug/L	-0.03
Spiked Amount 50.000	Range 82 - 120		Recovery = 116.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
A94449.D MA2955.M Tue Mar 22 10:25:51 2005 MSA

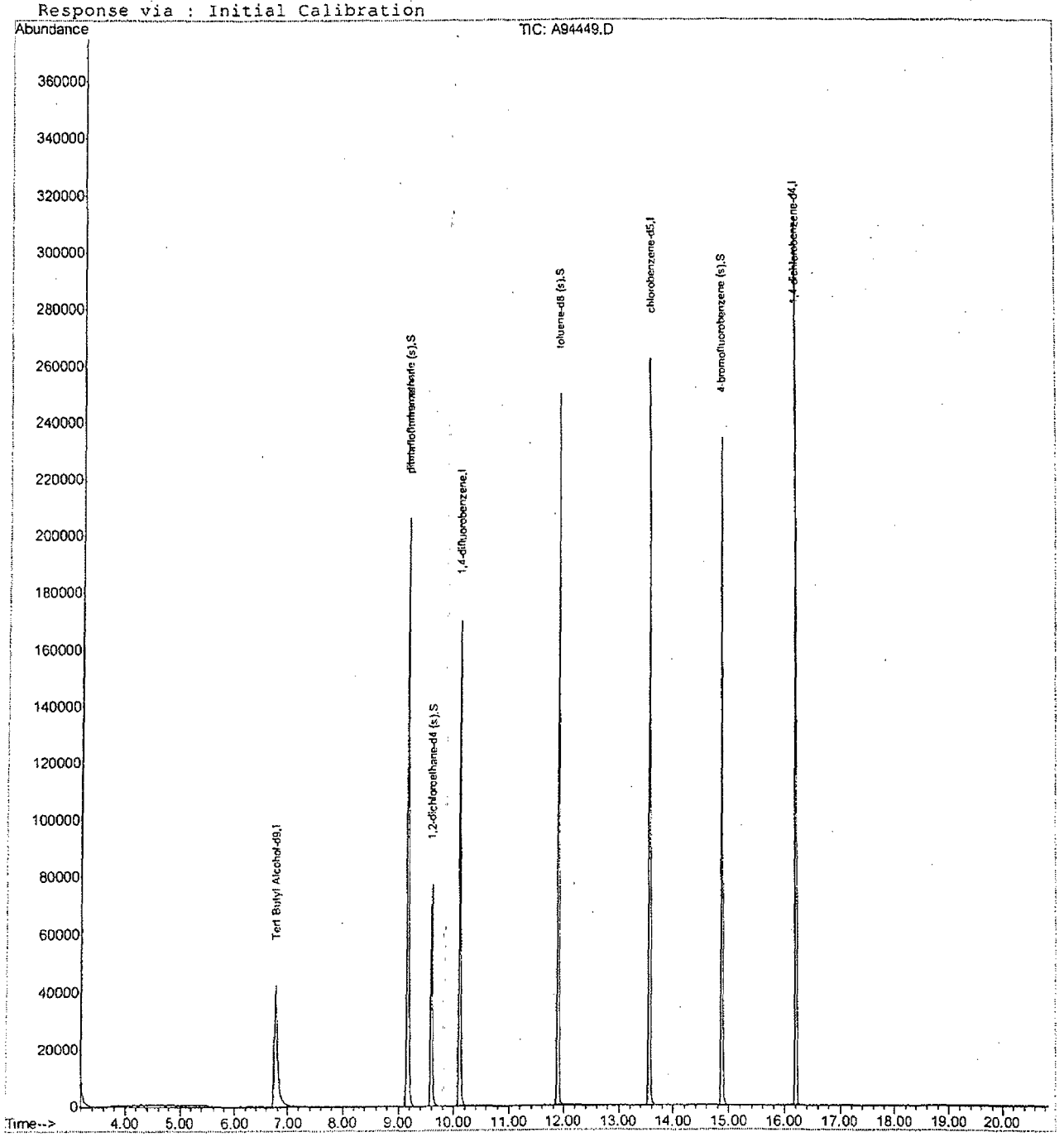
Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94449.D
Acq On : 22 Mar 2005 7:56 am
Sample : N93379-6
Misc : MS12445,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 10:01 2005

Vial: 44
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00

Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



6.1.6

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\A94436.D Vial: 31
Acq On : 22 Mar 2005 1:17 am Operator: NARESHJ
Sample : MB1 Inst : MSA
Misc : MS12433,VA2990,W,,,,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Mar 22 8:09 2005 Quant Results File: MA2955.RES

Quant Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration
DataAcq Meth : MA2955

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.77	65	105413	500.00	ug/L	-0.03
4) pentafluorobenzene	9.17	168	119136	50.00	ug/L	-0.02
45) 1,4-difluorobenzene	10.11	114	158088	50.00	ug/L	-0.03
74) chlorobenzene-d5	13.56	117	161683	50.00	ug/L	-0.03
87) 1,4-dichlorobenzene-d4	16.21	152	97691	50.00	ug/L	-0.03
System Monitoring Compounds						
39) dibromofluoromethane (s)	9.17	113	55166	41.99	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 119		Recovery = 83.98%			
40) 1,2-dichloroethane-d4 (s)	9.60	65	66697	50.20	ug/L	-0.03
Spiked Amount 50.000	Range 68 - 129		Recovery = 100.40%			
66) toluene-d8 (s)	11.89	98	183126	43.08	ug/L	-0.02
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.16%			
89) 4-bromofluorobenzene (s)	14.88	95	80831	56.34	ug/L	-0.02
Spiked Amount 50.000	Range 82 - 120		Recovery = 112.68%			

Target Compounds Qvalue

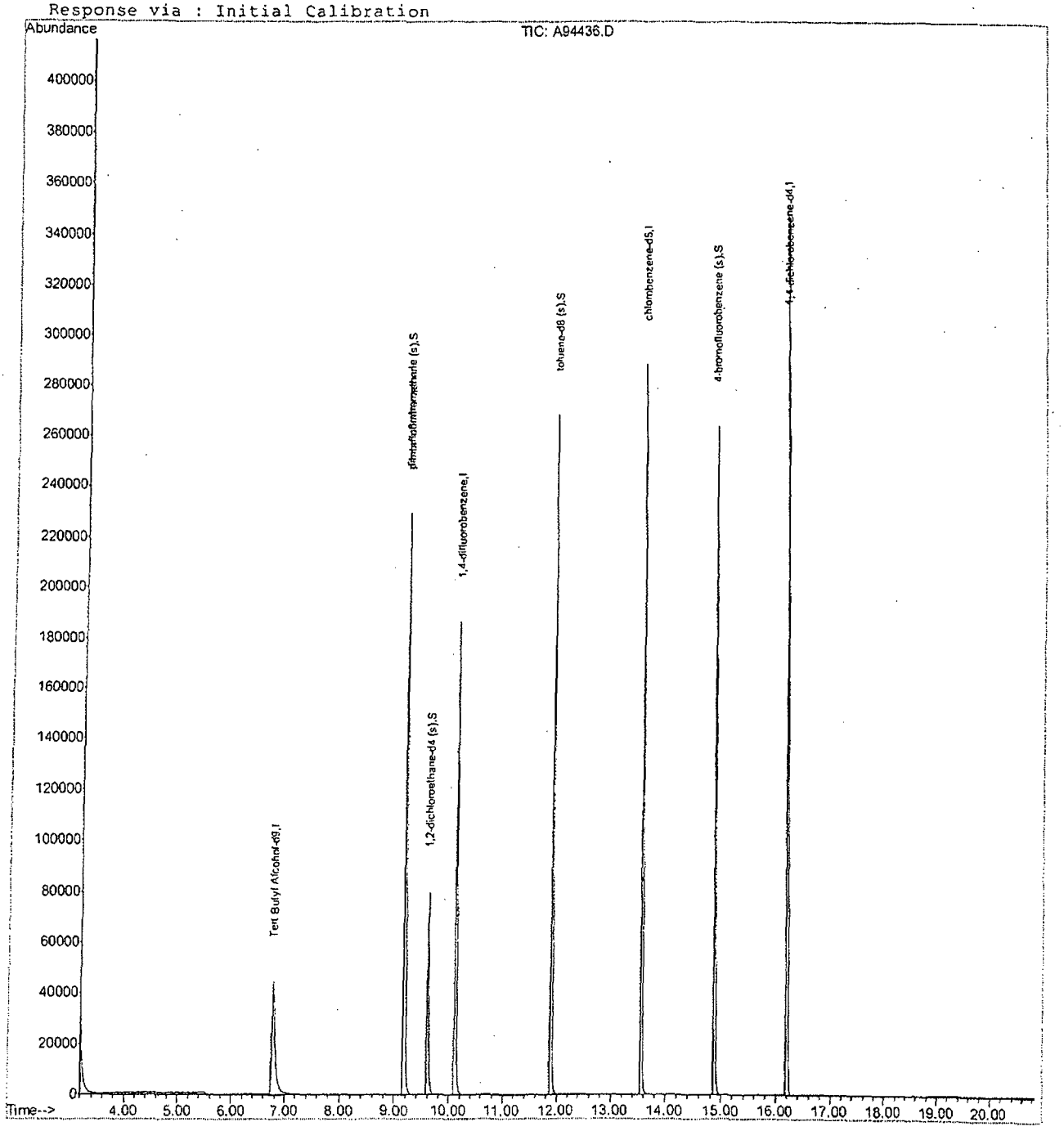
(#) = qualifier out of range (m) = manual integration
A94436.D MA2955.M Tue Mar 22 10:16:07 2005 MSA

Quantitation Report

Data File : C:\HPCHEM\1\DATA\A94436.D
Acq On : 22 Mar 2005 1:17 am
Sample : MB1
Misc : MS12433,VA2990,W,,,,1
MS Integration Params: LSCINT.P
Quant Time: Mar 22 8:09 2005

Vial: 31
Operator: NARESHJ
Inst : MSA
Multiplr: 1.00
Quant Results File: MA2955.RES

Method : C:\HPCHEM\1\METHODS\MA2955.M (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Mar 04 09:32:21 2005
Response via : Initial Calibration



GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB2	H74032.D	1	04/01/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

7.1

7

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB2	H74032.D	1	04/01/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	14-81%
4165-62-2	Phenol-d5	43%	10-64%
118-79-6	2,4,6-Tribromophenol	72%	43-126%
4165-60-0	Nitrobenzene-d5	85%	28-125%

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB2	H74032.D	1	04/01/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	77%	32-120%
1718-51-0	Terphenyl-d14	86%	42-125%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	5.92	32	ug/l	J
	unknown	17.26	4.1	ug/l	J
	Total TIC, Semi-Volatile		4.1	ug/l	J

7.1

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB1	R43744.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

OP19692-MS, OP19692-MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	4.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	4.7	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.73	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.65	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.72	ug/l	
	3&4-Methylphenol	ND	5.0	0.70	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.73	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.3	ug/l	
87-86-5	Pentachlorophenol	ND	20	0.75	ug/l	
108-95-2	Phenol	ND	5.0	1.8	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.74	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.80	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.35	ug/l	
120-12-7	Anthracene	ND	2.0	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.27	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.38	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.37	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.37	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.54	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.54	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.38	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.43	ug/l	
86-74-8	Carbazole	ND	2.0	0.34	ug/l	
218-01-9	Chrysene	ND	2.0	0.26	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.49	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.32	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.78	ug/l	

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB1	R43744.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

OP19692-MS, OP19692-MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.62	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.58	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.49	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.79	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.63	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	1.4	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.74	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.63	ug/l	
86-73-7	Fluorene	ND	2.0	0.89	ug/l	
118-74-1	Hexachlorobenzene	ND	2.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.41	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.45	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.67	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	1.5	ug/l	
78-59-1	Isophorone	ND	2.0	0.54	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.1	ug/l	
91-20-3	Naphthalene	ND	2.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.50	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.80	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.23	ug/l	
129-00-0	Pyrene	ND	2.0	0.58	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.32	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	10-88%
4165-62-2	Phenol-d5	24%	10-71%
118-79-6	2,4,6-Tribromophenol	67%	45-134%
4165-60-0	Nitrobenzene-d5	70%	32-128%

Method Blank Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MB1	R43744.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

OP19692-MS, OP19692-MSD

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	72%	34-121%
1718-51-0	Terphenyl-d14	88%	41-129%

7.1

Blank Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-BS2	H74033.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.5	73	50-108
59-50-7	4-Chloro-3-methyl phenol	50	40.5	81	55-116
120-83-2	2,4-Dichlorophenol	50	39.2	78	55-115
105-67-9	2,4-Dimethylphenol	50	39.1	78	40-115
51-28-5	2,4-Dinitrophenol	100	70.9	71	33-130
534-52-1	4,6-Dinitro-o-cresol	50	40.7	81	51-125
95-48-7	2-Methylphenol	50	33.0	66	36-101
	3&4-Methylphenol	50	31.9	64	29-96
88-75-5	2-Nitrophenol	50	38.3	77	52-120
100-02-7	4-Nitrophenol	50	28.1	56	1-74
87-86-5	Pentachlorophenol	50	28.6	57	35-124
108-95-2	Phenol	50	19.0	38	4-64
95-95-4	2,4,5-Trichlorophenol	50	39.9	80	57-118
88-06-2	2,4,6-Trichlorophenol	50	42.8	86	59-117
83-32-9	Acenaphthene	50	39.6	79	58-109
208-96-8	Acenaphthylene	50	36.8	74	50-107
120-12-7	Anthracene	50	42.1	84	65-113
56-55-3	Benzo(a)anthracene	50	41.6	83	63-114
50-32-8	Benzo(a)pyrene	50	42.9	86	63-117
205-99-2	Benzo(b)fluoranthene	50	40.7	81	60-121
191-24-2	Benzo(g,h,i)perylene	50	40.9	82	58-125
207-08-9	Benzo(k)fluoranthene	50	49.5	99	60-123
101-55-3	4-Bromophenyl phenyl ether	50	42.8	86	62-117
85-68-7	Butyl benzyl phthalate	50	43.0	86	63-123
91-58-7	2-Chloronaphthalene	50	40.0	80	58-110
106-47-8	4-Chloroaniline	50	32.7	65	38-116
86-74-8	Carbazole	50	44.4	89	68-122
218-01-9	Chrysene	50	44.4	89	65-114
111-91-1	bis(2-Chloroethoxy)methane	50	40.5	81	57-119
111-44-4	bis(2-Chloroethyl)ether	50	38.6	77	53-116
108-60-1	bis(2-Chloroisopropyl)ether	50	39.4	79	56-113
7005-72-3	4-Chlorophenyl phenyl ether	50	41.8	84	61-114
95-50-1	1,2-Dichlorobenzene	50	35.6	71	54-106
541-73-1	1,3-Dichlorobenzene	50	35.5	71	51-104
106-46-7	1,4-Dichlorobenzene	50	35.2	70	52-104
121-14-2	2,4-Dinitrotoluene	50	43.2	86	62-122

7.2

Blank Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-BS2	H74033.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	50	43.1	86	63-122
91-94-1	3,3'-Dichlorobenzidine	50	34.7	69	43-129
53-70-3	Dibenzo(a,h)anthracene	50	42.4	85	60-126
132-64-9	Dibenzofuran	50	40.2	80	62-114
84-74-2	Di-n-butyl phthalate	50	42.5	85	67-122
117-84-0	Di-n-octyl phthalate	50	50.6	101	60-139
84-66-2	Diethyl phthalate	50	41.4	83	60-123
131-11-3	Dimethyl phthalate	50	41.5	83	63-116
117-81-7	bis(2-Ethylhexyl)phthalate	50	43.9	88	61-124
206-44-0	Fluoranthene	50	42.2	84	64-117
86-73-7	Fluorene	50	42.3	85	61-114
118-74-1	Hexachlorobenzene	50	42.8	86	62-116
87-68-3	Hexachlorobutadiene	50	37.2	74	50-118
77-47-4	Hexachlorocyclopentadiene	100	53.6	54	24-114
67-72-1	Hexachloroethane	50	35.1	70	50-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	43.1	86	58-124
78-59-1	Isophorone	50	39.6	79	51-111
91-57-6	2-Methylnaphthalene	50	36.1	72	55-108
88-74-4	2-Nitroaniline	50	41.5	83	57-128
99-09-2	3-Nitroaniline	50	34.1	68	48-128
100-01-6	4-Nitroaniline	50	41.3	83	51-131
91-20-3	Naphthalene	50	37.0	74	53-106
98-95-3	Nitrobenzene	50	37.3	75	55-110
621-64-7	N-Nitroso-di-n-propylamine	50	39.3	79	54-123
86-30-6	N-Nitrosodiphenylamine	50	42.7	85	62-119
85-01-8	Phenanthrene	50	41.7	83	63-111
129-00-0	Pyrene	50	43.9	88	61-113
120-82-1	1,2,4-Trichlorobenzene	50	35.6	71	52-105

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	46%	14-81%
4165-62-2	Phenol-d5	36%	10-64%
118-79-6	2,4,6-Tribromophenol	83%	43-126%
4165-60-0	Nitrobenzene-d5	71%	28-125%

Blank Spike Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-BS2	H74033.D	1	04/02/05	SSW	03/16/05	OP19692	EH3145

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	74%	32-120%
1718-51-0	Terphenyl-d14	85%	42-125%

7.2

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MS	R43747.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
OP19692-MSD	R43748.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
N93090-14	R43746.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

7.3

CAS No.	Compound	N93090-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		50	39.8	80	38.6	77	3	30-117/28
59-50-7	4-Chloro-3-methyl phenol	ND		50	49.2	98	47.6	95	3	36-129/25
120-83-2	2,4-Dichlorophenol	ND		50	49.4	99	47.7	95	4	37-124/27
105-67-9	2,4-Dimethylphenol	ND		50	41.1	82	40.5	81	1	28-121/28
51-28-5	2,4-Dinitrophenol	ND		100	90.7	91	84.2	84	7	8-144/32
534-52-1	4,6-Dinitro-o-cresol	ND		50	48.2	96	46.3	93	4	24-142/29
95-48-7	2-Methylphenol	ND		50	32.6	65	31.5	63	3	30-114/28
	3&4-Methylphenol	ND		50	30.0	60	28.7	57	4	21-122/28
88-75-5	2-Nitrophenol	ND		50	51.3	103	49.3	99	4	34-123/27
100-02-7	4-Nitrophenol	ND		50	25.7	51	22.9	46	12	1-129/33
87-86-5	Pentachlorophenol	ND		50	52.0	104	49.4	99	5	36-143/24
108-95-2	Phenol	ND		50	13.6	27	12.5	25	8	1-102/32
95-95-4	2,4,5-Trichlorophenol	ND		50	52.3	105	49.7	99	5	41-131/24
88-06-2	2,4,6-Trichlorophenol	ND		50	52.1	104	50.3	101	4	43-121/25
83-32-9	Acenaphthene	ND		50	40.8	82	40.0	80	2	40-114/30
208-96-8	Acenaphthylene	ND		50	39.3	79	38.4	77	2	36-106/31
120-12-7	Anthracene	ND		50	42.9	86	42.5	85	1	54-119/23
56-55-3	Benzo(a)anthracene	ND		50	45.5	91	44.1	88	3	57-122/22
50-32-8	Benzo(a)pyrene	ND		50	45.3	91	43.3	87	5	53-126/23
205-99-2	Benzo(b)fluoranthene	ND		50	54.3	109	52.2	104	4	50-135/26
191-24-2	Benzo(g,h,i)perylene	ND		50	27.3	55	28.0	56	3	35-141/29
207-08-9	Benzo(k)fluoranthene	ND		50	48.4	97	46.7	93	4	37-144/24
101-55-3	4-Bromophenyl phenyl ether	ND		50	51.0	102	49.7	99	3	49-121/25
85-68-7	Butyl benzyl phthalate	ND		50	50.0	100	47.9	96	4	56-132/23
91-58-7	2-Chloronaphthalene	ND		50	45.7	91	45.0	90	2	34-115/30
106-47-8	4-Chloroaniline	ND		50	26.2	52	27.8	56	6	10-108/37
86-74-8	Carbazole	ND		50	47.3	95	47.1	94	0	49-146/22
218-01-9	Chrysene	ND		50	45.8	92	44.0	88	4	55-125/23
111-91-1	bis(2-Chloroethoxy)methane	ND		50	45.0	90	43.6	87	3	37-119/32
111-44-4	bis(2-Chloroethyl)ether	ND		50	41.1	82	40.1	80	2	32-122/37
108-60-1	bis(2-Chloroisopropyl)ether	ND		50	46.0	92	45.5	91	1	34-112/32
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	50.7	101	48.9	98	4	43-118/27
95-50-1	1,2-Dichlorobenzene	ND		50	41.5	83	41.3	83	0	31-110/31
541-73-1	1,3-Dichlorobenzene	ND		50	40.9	82	40.8	82	0	27-107/32
106-46-7	1,4-Dichlorobenzene	ND		50	40.1	80	39.1	78	3	29-108/31
121-14-2	2,4-Dinitrotoluene	ND		50	53.7	107	52.3	105	3	50-125/31

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MS	R43747.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
OP19692-MSD	R43748.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
N93090-14	R43746.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

7.3

CAS No.	Compound	N93090-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		50	55.1	110	53.1	106	4	45-124/28
91-94-1	3,3'-Dichlorobenzidine	ND		50	ND	0* [a]	ND	0* [a]	nc	1-145/37
53-70-3	Dibenzo(a,h)anthracene	ND		50	32.3	65	32.9	66	2	40-138/27
132-64-9	Dibenzofuran	ND		50	45.0	90	43.8	88	3	42-119/28
84-74-2	Di-n-butyl phthalate	ND		50	47.1	94	46.1	92	2	54-131/22
117-84-0	Di-n-octyl phthalate	ND		50	68.0	136	63.4	127	7	49-151/25
84-66-2	Diethyl phthalate	ND		50	45.9	92	44.6	89	3	49-123/24
131-11-3	Dimethyl phthalate	ND		50	48.0	96	46.8	94	3	39-124/27
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	50.1	100	48.0	96	4	51-140/29
206-44-0	Fluoranthene	ND		50	47.0	94	46.9	94	0	52-129/22
86-73-7	Fluorene	ND		50	45.4	91	45.3	91	0	43-116/26
118-74-1	Hexachlorobenzene	ND		50	52.1	104	50.9	102	2	49-121/24
87-68-3	Hexachlorobutadiene	ND		50	45.2	90	44.5	89	2	30-126/33
77-47-4	Hexachlorocyclopentadiene	ND		100	61.8	62	58.1	58	6	1-109/41
67-72-1	Hexachloroethane	ND		50	43.2	86	43.1	86	0	22-113/34
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	31.0	62	32.1	64	3	40-139/28
78-59-1	Isophorone	ND		50	40.5	81	40.6	81	0	34-116/37
91-57-6	2-Methylnaphthalene	ND		50	42.3	85	41.4	83	2	28-123/32
88-74-4	2-Nitroaniline	ND		50	41.3	83	40.1	80	3	30-135/33
99-09-2	3-Nitroaniline	ND		50	27.7	55	26.9	54	3	15-134/35
100-01-6	4-Nitroaniline	ND		50	46.2	92	45.6	91	1	18-153/32
91-20-3	Naphthalene	ND		50	41.2	82	40.8	82	1	22-120/30
98-95-3	Nitrobenzene	ND		50	45.3	91	44.4	89	2	31-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		50	41.0	82	39.9	80	3	32-125/33
86-30-6	N-Nitrosodiphenylamine	ND		50	42.6	85	41.7	83	2	49-131/24
85-01-8	Phenanthrene	ND		50	43.4	87	42.7	85	2	51-117/23
129-00-0	Pyrene	ND		50	45.5	91	44.2	88	3	54-122/22
120-82-1	1,2,4-Trichlorobenzene	ND		50	43.8	88	42.7	85	3	27-115/31

CAS No.	Surrogate Recoveries	MS	MSD	N93090-14	Limits
367-12-4	2-Fluorophenol	38%	35%	31%	10-88%
4165-62-2	Phenol-d5	22%	26%	16%	10-71%
118-79-6	2,4,6-Tribromophenol	99%	95%	87%	45-134%
4165-60-0	Nitrobenzene-d5	72%	71%	80%	32-128%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19692-MS	R43747.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
OP19692-MSD	R43748.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479
N93090-14	R43746.D	1	03/18/05	WHS	03/14/05	OP19692	ER1479

The QC reported here applies to the following samples: Method: SW846 8270C

N93379-1, N93379-2, N93379-3, N93379-4, N93379-5

7.3

7

CAS No.	Surrogate Recoveries	MS	MSD	N93090-14	Limits
321-60-8	2-Fluorobiphenyl	81%	79%	80%	34-121%
1718-51-0	Terphenyl-d14	94%	88%	95%	41-129%

(a) Outside of in house control limits.

Instrument Performance Check (DFTPP)

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample:	EH3145-DFTPP	Injection Date:	04/01/05
Lab File ID:	H74023.D	Injection Time:	18:02
Instrument ID:	GCMSH		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	4103	42.3		Pass
68	Less than 2.0% of mass 69	52	0.54	(0.88) [a]	Pass
69	Mass 69 relative abundance	5933	61.2		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	5552	57.2		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	9701	100.0		Pass
199	5.0 - 9.0% of mass 198	726	7.5		Pass
275	10.0 - 30.0% of mass 198	2259	23.3		Pass
365	1.0 - 100.0% of mass 198	237	2.4		Pass
441	Present, but less than mass 443	1027	10.6	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	7484	77.1		Pass
443	17.0 - 23.0% of mass 442	1387	14.3	(18.5) [c]	Pass

74

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH3145-ICC3145	H74024.D	04/01/05	19:04	01:02	Initial cal 25
EH3145-IC3145	H74025.D	04/01/05	19:35	01:33	Initial cal 50
EH3145-IC3145	H74026.D	04/01/05	20:06	02:04	Initial cal 80
EH3145-IC3145	H74027.D	04/01/05	20:51	02:49	Initial cal 100
EH3145-IC3145	H74028.D	04/01/05	21:21	03:19	Initial cal 10
EH3145-IC3145	H74029.D	04/01/05	22:06	04:04	Initial cal 5
EH3145-IC3145	H74030.D	04/01/05	22:36	04:34	Initial cal 2
OP19692-MB2	H74032.D	04/01/05	23:54	05:52	Method Blank
OP19692-BS2	H74033.D	04/02/05	00:39	06:37	Blank Spike
ZZZZZZ	H74034.D	04/02/05	01:23	07:21	(unrelated sample)
ZZZZZZ	H74035.D	04/02/05	01:52	07:50	(unrelated sample)
ZZZZZZ	H74036.D	04/02/05	02:28	08:26	(unrelated sample)
N93379-1	H74037.D	04/02/05	03:12	09:10	WELL AY
N93379-2	H74038.D	04/02/05	03:46	09:44	WELL X
N93379-3	H74039.D	04/02/05	04:31	10:29	WELL AV
N93379-4	H74040.D	04/02/05	05:01	10:59	WELL AVD
N93379-5	H74041.D	04/02/05	05:45	11:43	FB-031505

Instrument Performance Check (DFTPP)

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample:	ER1468-DFTPP	Injection Date:	03/03/05
Lab File ID:	R43545.D	Injection Time:	16:50
Instrument ID:	GCMSR		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	32145	44.3		Pass
68	Less than 2.0% of mass 69	382	0.53	(1.1) [a]	Pass
69	Mass 69 relative abundance	35172	48.5		Pass
70	Less than 2.0% of mass 69	58	0.08	(0.16) [a]	Pass
127	40.0 - 60.0% of mass 198	39640	54.6		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	72552	100.0		Pass
199	5.0 - 9.0% of mass 198	5075	7.0		Pass
275	10.0 - 30.0% of mass 198	17659	24.3		Pass
365	1.0 - 100.0% of mass 198	2540	3.5		Pass
441	Present, but less than mass 443	7677	10.6	(80.7) [b]	Pass
442	40.0 - 100.0% of mass 198	50147	69.1		Pass
443	17.0 - 23.0% of mass 442	9514	13.1	(19.0) [c]	Pass

7.4

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ER1468-ICC1468	R43546.D	03/03/05	17:00	00:10	Initial cal 50
ER1468-IC1468	R43547.D	03/03/05	17:48	00:58	Initial cal 100
ER1468-IC1468	R43548.D	03/03/05	18:32	01:42	Initial cal 80
ER1468-IC1468	R43549.D	03/03/05	19:15	02:25	Initial cal 25
ER1468-IC1468	R43550.D	03/03/05	19:59	03:09	Initial cal 10
ER1468-IC1468	R43551.D	03/03/05	20:43	03:53	Initial cal 5
ER1468-IC1468	R43552.D	03/03/05	21:26	04:36	Initial cal 2

Instrument Performance Check (DFTPP)

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample:	ER1479-DFTPP	Injection Date:	03/18/05
Lab File ID:	R43740.D	Injection Time:	10:30
Instrument ID:	GCMSR		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	42965	34.2		Pass
68	Less than 2.0% of mass 69	261	0.21	(0.54) [a]	Pass
69	Mass 69 relative abundance	48635	38.7		Pass
70	Less than 2.0% of mass 69	211	0.17	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	61345	48.8		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	125768	100.0		Pass
199	5.0 - 9.0% of mass 198	8364	6.7		Pass
275	10.0 - 30.0% of mass 198	34584	27.5		Pass
365	1.0 - 100.0% of mass 198	4956	3.9		Pass
441	Present, but less than mass 443	16859	13.4	(74.9) [b]	Pass
442	40.0 - 100.0% of mass 198	114779	91.3		Pass
443	17.0 - 23.0% of mass 442	22499	17.9	(19.6) [c]	Pass

7.4

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ER1479-CC1468	R43741.D	03/18/05	10:45	00:15	Continuing cal 25
OP19709-LS2	R43742.D	03/18/05	11:21	00:51	Leachate Spike
ZZZZZZ	R43743.D	03/18/05	12:07	01:37	(unrelated sample)
OP19692-MB1	R43744.D	03/18/05	12:53	02:23	Method Blank
OP19692-BS1	R43745.D	03/18/05	13:36	03:06	Blank Spike
N93090-14	R43746.D	03/18/05	14:19	03:49	(used for QC only; not part of job N93379)
OP19692-MS	R43747.D	03/18/05	15:03	04:33	Matrix Spike
OP19692-MSD	R43748.D	03/18/05	15:47	05:17	Matrix Spike Duplicate
ZZZZZZ	R43749.D	03/18/05	16:29	05:59	(unrelated sample)
ZZZZZZ	R43750.D	03/18/05	17:13	06:43	(unrelated sample)
ZZZZZZ	R43751.D	03/18/05	17:56	07:26	(unrelated sample)
ZZZZZZ	R43752.D	03/18/05	18:40	08:10	(unrelated sample)
ZZZZZZ	R43753.D	03/18/05	19:23	08:53	(unrelated sample)
ZZZZZZ	R43754.D	03/18/05	20:06	09:36	(unrelated sample)
ZZZZZZ	R43755.D	03/18/05	20:50	10:20	(unrelated sample)
ZZZZZZ	R43756.D	03/18/05	21:33	11:03	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Check Std:	EH3145-ICC3145	Injection Date:	04/01/05
Lab File ID:	H74024.D	Injection Time:	19:04
Instrument ID:	GCMSH	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	153158	8.63	636381	10.66	276929	14.10	409247	17.47	335074	22.51	315770	24.90
Upper Limit [a]	306316	9.13	1272762	11.16	553858	14.60	818494	17.97	670148	23.01	631540	25.40
Lower Limit [b]	76579	8.13	318191	10.16	138465	13.60	204624	16.97	167537	22.01	157885	24.40
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19692-MB2	157294	8.63	608911	10.66	294346	14.10	442111	17.47	330113	22.52	291971	24.91
OP19692-BS2	161578	8.64	703386	10.67	292342	14.11	413336	17.49	302017	22.52	262436	24.91
ZZZZZZ	132716	8.64	520478	10.67	248554	14.11	353134	17.48	261497	22.52	234528	24.91
ZZZZZZ	181943	8.64	713707	10.68	357643	14.13	449966	17.50	300475	22.52	286321	24.93
ZZZZZZ	187046	8.64	736247	10.67	350343	14.11	500411	17.49	356482	22.52	309192	24.92
N93379-1	162438	8.64	631491	10.67	301014	14.12	424267	17.49	323807	22.52	303459	24.92
N93379-2	151724	8.64	578453	10.68	271059	14.13	384031	17.49	304464	22.52	305873	24.93
N93379-3	166034	8.65	627729	10.68	295517	14.13	410401	17.50	312340	22.52	306595	24.93
N93379-4	159765	8.65	611615	10.68	285582	14.13	397200	17.50	304682	22.53	295846	24.93
N93379-5	157954	8.65	620822	10.68	295023	14.12	425212	17.50	320843	22.53	300804	24.93

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

7.5.7

Semivolatile Internal Standard Area Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Check Std:	ER1479-CC1468	Injection Date:	03/18/05
Lab File ID:	R43741.D	Injection Time:	10:45
Instrument ID:	GCMSR	Method:	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	352195	7.80	1274165	11.96	653525	18.24	1013796	22.23	811227	28.67	689790	31.83
Upper Limit [a]	704390	8.30	2548330	12.46	1307050	18.74	2027592	22.73	1622454	29.17	1379580	32.33
Lower Limit [b]	176098	7.30	637083	11.46	326763	17.74	506898	21.73	405614	28.17	344895	31.33
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19709-LS2	332974	7.81	1227618	11.95	655631	18.23	1098964	22.24	850404	28.68	671296	31.83
ZZZZZZ	346220	7.80	1267163	11.95	631027	18.24	989766	22.24	792767	28.67	657628	31.83
OP19692-MB1	367504	7.81	1274885	11.95	680764	18.24	1107702	22.24	888996	28.68	694727	31.83
OP19692-BS1	353877	7.81	1346002	11.95	715568	18.23	1153467	22.24	985923	28.67	837675	31.83
N93090-14	299940	7.82	1020291	11.96	572424	18.23	1003530	22.23	892918	28.67	676803	31.82
OP19692-MS	394331	7.81	1501241	11.96	824139	18.24	1341781	22.24	1133754	28.67	757628	31.82
OP19692-MSD	335399	7.81	1279709	11.96	702791	18.24	1137541	22.24	995673	28.67	698726	31.82
ZZZZZZ	361145	7.81	1256143	11.95	695124	18.24	1155644	22.23	1010936	28.67	823956	31.82
ZZZZZZ	326038	7.81	1262732	11.95	730390	18.24	1247066	22.24	1078502	28.67	764920	31.82
ZZZZZZ	347617	7.81	1285817	11.95	731717	18.24	1241462	22.23	1027959	28.67	700013	31.83
ZZZZZZ	314792	7.81	1085439	11.96	589102	18.23	977125	22.24	804080	28.68	583952	31.83
ZZZZZZ	382064	7.83	1425453	11.96	711118	18.23	1146483	22.23	933393	28.67	673506	31.82
ZZZZZZ	378553	7.81	1329413	11.95	706117	18.23	1146848	22.23	944187	28.67	721182	31.82
ZZZZZZ	414688	7.81	1512042	11.95	794951	18.24	1289419	22.23	1039205	28.67	786817	31.82
ZZZZZZ	333353	7.81	1157767	11.95	633028	18.24	1068194	22.23	933424	28.67	739134	31.82

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

7.5

Semivolatile Surrogate Recovery Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Method: SW846 8270C Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
N93379-1	H74037.D	45.0	27.0	80.0	90.0	82.0	89.0
N93379-2	H74038.D	36.0	23.0	78.0	71.0	67.0	83.0
N93379-3	H74039.D	45.0	28.0	95.0	93.0	82.0	90.0
N93379-4	H74040.D	47.0	29.0	96.0	97.0	84.0	89.0
N93379-5	H74041.D	44.0	28.0	80.0	92.0	83.0	92.0
OP19692-BS2	H74033.D	46.0	36.0	83.0	71.0	74.0	85.0
OP19692-MB2	H74032.D	58.0	43.0	72.0	85.0	77.0	86.0
OP19692-MS	R43747.D	38.0	22.0	99.0	72.0	81.0	94.0
OP19692-MSD	R43748.D	35.0	26.0	95.0	71.0	79.0	88.0
OP19692-MB1	R43744.D	43.0	24.0	67.0	70.0	72.0	88.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-81%
S2 = Phenol-d5	10-64%
S3 = 2,4,6-Tribromophenol	43-126%
S4 = Nitrobenzene-d5	28-125%
S5 = 2-Fluorobiphenyl	32-120%
S6 = Terphenyl-d14	42-125%

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: EH3145-ICC3145
Lab FileID: H74024.D

Response Factor Report MSH

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration

Calibration Files
100 =H74027.D 2 =H74030.D 5 =H74029.D 10 =H74028.D
25 =H74024.D 50 =H74025.D 80 =H74026.D

Compound	100	2	5	10	25	50	80	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2)t 1,4-Dioxane	0.539	0.941	0.797	0.715	0.642	0.625	0.615	0.696	19.44
----- Linear regression ----- Coefficient = 0.9912									
Response Ratio = 0.04514 + 0.55440 *A									
3)t Pyridine	1.460	1.356	1.548	1.744	1.289	1.492	1.593	1.497	10.11
4)t N-Nitrosodimethyl	0.521	0.602	0.560	0.646	0.583	0.575	0.560	0.578	6.76
5)S 2-Fluorophenol	1.464	1.336	1.431	1.645	1.676	1.709	1.735	1.571	10.03
6)t Indene	2.257	2.258	2.368	2.717	2.505	2.500	2.465	2.439	6.63
7)t Cumene	2.468	2.643	2.716	3.089	2.902	2.838	2.722	2.768	7.17
8)S Phenol-d5	1.981	1.781	1.948	2.255	2.280	2.295	2.320	2.123	10.15
9)t Phenol	2.130	1.862	2.002	2.304	2.036	2.241	2.265	2.120	7.63
10)t Aniline	1.762	1.895	1.945	0.858	1.767	1.848	1.851	1.704	22.21
----- Linear regression ----- Coefficient = 0.9962									
Response Ratio = -0.04649 + 1.82345 *A									
11)t bis(2-Chloroethyl	1.641	1.604	1.742	2.426	1.788	1.720	1.613	1.791	16.12
----- Linear regression ----- Coefficient = 0.9976									
Response Ratio = 0.08515 + 1.60374 *A									
12) Benzaldehyde	0.095	0.636	0.967	0.913	0.483	0.399	0.182	0.525	64.00
13)t 2-Chlorophenol	1.445	1.410	1.452	1.686	1.532	1.511	1.553	1.513	6.08
14)t Decane	1.316	1.691	1.499	1.648	1.538	1.450	1.423	1.509	8.62
15)t 1,3-Dichlorobenze	1.405	1.528	1.536	1.715	1.557	1.537	1.516	1.542	5.90
16)t 1,4-Dichlorobenze	1.450	1.595	1.627	1.787	1.638	1.599	1.568	1.609	6.22
17)t Benzyl alcohol	0.920	0.591	0.692	0.791	0.980	0.898	0.803	0.811	16.77
18)t 1,2-Dichlorobenze	1.405	1.466	1.461	1.679	1.510	1.519	1.539	1.511	5.72
19)t Acetophenone	1.776	1.774	1.921	2.176	1.994	1.978	1.973	1.942	7.15
20)t 2-Methylphenol	1.271	1.187	1.367	1.537	1.382	1.399	1.403	1.364	8.10
21)t 2,2'-oxybis(1-Chl	0.511	0.551	0.525	0.609	0.540	0.536	0.536	0.544	5.73
22)t 3&4-Methylphenol	1.372	1.218	1.467	1.723	1.465	1.457	1.334	1.434	10.91
23)t n-Nitroso-di-n-pr	0.944	0.952	0.972	1.145	1.037	1.009	1.011	1.010	6.79
24)t Hexachloroethane	0.546	0.594	0.610	0.670	0.620	0.608	0.592	0.606	6.12
25) I Naphthalene-d8	ISTD								
26)S Nitrobenzene-d5	0.279	0.366	0.369	0.418	0.361	0.341	0.312	0.349	12.82
27)t Nitrobenzene	0.258	0.342	0.350	0.387	0.333	0.318	0.281	0.324	13.38
28)t Quinoline	0.478	0.653	0.654	0.761	0.649	0.601	0.540	0.619	14.74
29)t Isophorone	0.516	0.684	0.688	0.801	0.692	0.637	0.573	0.656	14.09
30)t 2-Nitrophenol	0.172	0.202	0.218	0.247	0.212	0.204	0.189	0.206	11.42
31)t 2,4-Dimethylpheno		0.278	0.325	0.364	0.312	0.284	0.239	0.300	14.38
32)t Benzoic acid	0.182		0.154	0.229	0.204	0.219	0.197	0.197	13.70
33)t bis(2-Chloroethox	0.334	0.439	0.453	0.516	0.431	0.406	0.372	0.422	13.94
34)t 2,4-Dichloropheno	0.209	0.270	0.267	0.294	0.264	0.238	0.222	0.252	11.84
35)t 1,3,5-Trichlorobe	0.207	0.283	0.268	0.306	0.272	0.255	0.234	0.261	12.50
36)T 1,2,4-Trichlorobe	0.202	0.268	0.272	0.300	0.262	0.245	0.226	0.254	12.76

7.7

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: EH3145-ICC3145
Lab FileID: H74024.D

37)T 1,2,3-Trichlorobe	0.193	0.256	0.260	0.288	0.255	0.235	0.213	0.243	13.05
38)t alpha-Terpineol	0.217	0.291	0.288	0.329	0.292	0.270	0.242	0.276	13.32
39)t Naphthalene	0.750	1.015	1.003	1.137	0.972	0.912	0.842	0.947	13.33
40)t 4-Chloroaniline		0.419	0.428	0.374	0.363	0.363	0.292	0.373	13.08
41)t 2,3-Dichloroanili	0.231	0.316	0.312	0.347	0.311	0.287	0.258	0.295	13.28
42)t Caprolactam		0.139	0.157	0.177	0.151	0.134	0.125	0.147	12.72
43)t Hexachlorobutadie	0.094	0.125	0.122	0.140	0.120	0.114	0.106	0.117	12.49
44)t 4-Chloro-3-methyl	0.209	0.272	0.277	0.316	0.271	0.251	0.217	0.259	14.31
45)t 2-Methylnaphthale	0.482	0.667	0.661	0.742	0.654	0.599	0.555	0.623	13.71
46)t 1-Methylnaphthale	0.440	0.626	0.616	0.693	0.602	0.560	0.519	0.579	14.13
47)t Dimethylnaphthale	0.382	0.509	0.514	0.580	0.512	0.482	0.434	0.488	13.07
48) I Acenaphthene-d10	ISTD								
49)t Hexachlorocyclope			0.029	0.094	0.141	0.205	0.241	0.142	59.68
----- Linear regression ----- Coefficient = 0.9905									
Response Ratio = -0.09414 + 0.25625 *A									
50)t 2,4,6-Trichloroph	0.342	0.250	0.323	0.371	0.361	0.345	0.333	0.332	11.95
51)t 2,4,5-Trichloroph	0.380		0.282	0.410	0.399	0.421	0.419	0.385	13.67
52)S 2-Fluorobiphenyl	1.346	1.312	1.373	1.586	1.493	1.504	1.513	1.447	7.07
53)t 2-Chloronaphthale	1.113	1.127	1.156	1.331	1.272	1.249	1.223	1.210	6.71
54)t Biphenyl	1.419	1.505	1.498	1.741	1.630	1.649	1.592	1.576	6.92
55)t 2-Nitroaniline	0.344	0.326	0.342	0.414	0.389	0.396	0.382	0.371	8.91
56)t Dimethylphthalate	1.257	1.327	1.362	1.590	1.427	1.404	1.349	1.388	7.54
57)t Acenaphthylene	1.776	1.796	1.883	2.182	2.050	2.015	1.918	1.946	7.49
58)t 2,6-Dinitrotoluen	0.319	0.286	0.315	0.381	0.363	0.365	0.354	0.341	10.04
59)t 3-Nitroaniline	0.389	0.348	0.401	0.473	0.434	0.442	0.419	0.415	9.76
60)t Acenaphthene	1.089	1.175	1.140	1.337	1.252	1.236	1.194	1.203	6.72
61)t 2,4-Dinitrophenol	0.214			0.203	0.207	0.235	0.233	0.218	6.77
62)t 4-Nitrophenol	0.109		0.092	0.127	0.129	0.119	0.109	0.114	11.99
63)t Dibenzofuran	1.556	1.574	1.646	1.886	1.783	1.786	1.736	1.710	7.12
64)t 2,4-Dinitrotoluen	0.441	0.371	0.439	0.531	0.490	0.506	0.492	0.467	11.56
65)t Diethylphthalate	1.270	1.354	1.389	1.604	1.489	1.458	1.379	1.420	7.58
66)t Fluorene	1.227	1.216	1.287	1.472	1.374	1.384	1.336	1.328	6.90
67)t 4-Chlorophenyl-ph	0.527	0.521	0.535	0.624	0.558	0.584	0.565	0.559	6.52
68)t 4-Nitroaniline	0.383	0.318	0.394	0.479	0.453	0.452	0.424	0.415	13.19
69) I Phenanthrene-d10	ISTD								
70)t 4,6-Dinitro-2-met	0.192		0.136	0.200	0.189	0.199	0.208	0.187	13.77
71)t Atrazine		0.174	0.176	0.212	0.204	0.170		0.187	10.27
72)t n-Nitrosodiphenyl	0.614	0.578	0.584	0.704	0.626	0.641	0.659	0.630	6.97
73)t 1,2-Diphenylhydra	0.966	0.876	0.899	1.086	1.010	1.050	1.080	0.995	8.51
74)S 2,4,6-Tribromophe	0.147	0.115	0.119	0.146	0.152	0.161	0.165	0.144	13.48
75)t 4-Bromophenyl-phe	0.220	0.187	0.200	0.244	0.217	0.216	0.230	0.216	8.62
76)t Hexachlorobenzene	0.264	0.252	0.253	0.290	0.262	0.269	0.277	0.267	5.04
77)t Pentachlorophenol	0.153			0.128	0.137	0.155	0.170	0.149	11.13
78)t Phenanthrene	1.099	1.162	1.138	1.323	1.190	1.188	1.182	1.183	5.89
79)t Anthracene	1.148	1.125	1.139	1.368	1.259	1.257	1.243	1.220	7.18
80)t Carbazole	1.035	1.000	1.064	1.281	1.180	1.167	1.132	1.123	8.63
81)t Di-n-butylphthala	1.579	1.571	1.581	1.917	1.725	1.704	1.678	1.679	7.32
82)t Fluoranthene	1.041	1.047	1.081	1.298	1.192	1.133	1.106	1.128	8.07
83)t Octadecane	0.642	0.670	0.608	0.724	0.657	0.685	0.716	0.672	6.08
84) I Chrysene-d12	ISTD								
85)t Benzidine	0.302	0.378	0.364	0.369	0.285	0.248	0.172	0.302	25.01
86)t Pyrene	1.411	1.423	1.411	1.609	1.472	1.480	1.594	1.486	5.65
87)S Terphenyl-d14	1.003	0.956	0.918	1.127	1.056	1.057	1.122	1.034	7.67
88)t Butylbenzylphthal	0.904	0.859	0.859	1.028	0.923	0.928	0.959	0.923	6.41
89)t Butyl stearate	0.151	0.127	0.120	0.145	0.127	0.139	0.156	0.138	9.71
90)t Benzo[a]anthracen	1.154	1.313	1.214	1.444	1.259	1.243	1.275	1.272	7.15

7.7

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: EH3145-ICC3145
Lab FileID: H74024.D

91)t 3,3'-Dichlorobenz	0.440	0.464	0.450	0.528	0.495	0.494	0.483	0.479	6.28
92)t Chrysene	1.043	1.091	1.077	1.263	1.216	1.165	1.140	1.142	6.90
93)t bis(2-Ethylhexyl)	1.237	1.211	1.166	1.379	1.251	1.306	1.321	1.267	5.71
94) I Perylene-d12	----------ISTD----------								
95)t Di-n-octylphthala	1.995	1.804	1.917	2.300	2.107	2.146	2.068	2.048	7.88
96)t Benzo[b]fluoranth	1.295	1.347	1.338	1.539	1.490	1.519	1.653	1.454	8.98
97)t Benzo[k]fluoranth	1.228	1.126	1.118	1.396	1.280	1.243	1.103	1.214	8.77
98)t Benzo[a]pyrene	1.190	1.107	1.152	1.388	1.287	1.262	1.283	1.238	7.67
99)t Indeno[1,2,3-cd]p	1.437	1.277	1.293	1.616	1.452	1.479	1.609	1.452	9.25
100)t Dibenz(a,h)acridi	1.127	0.980	1.004	1.217	1.132	1.172	1.292	1.132	9.80
101)t Dibenz[a,h]anthra	1.259	1.127	1.131	1.396	1.297	1.298	1.419	1.275	9.02
102)t 7,12-Dimethylbenz	0.573	0.486	0.483	0.542	0.634	0.617	0.603	0.562	10.88
103)t Benzo[g,h,i]peryl	1.080	1.186	1.118	1.343	1.179	1.156	1.192	1.179	7.04

(#) = Out of Range

MH3145.M Sat Apr 02 08:51:59 2005 MSH

7.7

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1468-ICC1468
Lab FileID: R43546.D

Response Factor Report MSR

Method : C:\HPCHEM\1\METHODS\MR1468.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Mar 04 10:17:31 2005
Response via : Initial Calibration

Calibration Files
2 =R43552.D 5 =R43551.D 100 =R43547.D 50 =R43546.D
10 =R43550.D 80 =R43548.D 25 =R43549.D =

Compound	2	5	100	50	10	80	25	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2) 1,4-Dioxane	1.190	0.795	0.622	0.651	0.734	0.623	0.662	0.754	26.85
----- Linear regression ----- Coefficient = 0.9998									
Response Ratio = 0.03050 + 0.61141 *A									
3) Pyridine	1.832	1.789	1.604	1.593	1.699	1.511	1.627	1.665	6.87
4) N-Nitrosodim	0.983	0.952	0.778	0.867	0.875	0.798	0.846	0.871	8.61
5) 2-Fluorophen	1.514	1.246	1.162	1.368	1.322	1.303	1.314	1.318	8.24
6) Indene	3.076	2.711	2.484	2.544	2.523	2.508	2.453	2.614	8.41
7) Cumene	3.954	3.395	2.855	2.978	3.114	2.827	2.871	3.142	13.03
8) Phenol-d5	2.205	2.142	1.723	1.976	2.047	1.944	1.850	1.984	8.37
9) Phenol	2.092	1.608	1.770	1.854	1.800	1.801	1.725	1.807	8.18
10) Aniline	2.245	2.264	1.788	2.079	2.018	1.714	1.644	1.965	12.82
11) bis(2-Chloro	1.518	1.369	1.393	1.471	1.367	1.420	1.377	1.416	4.09
12) Benzaldehyde	0.630	0.839		0.190	0.587		0.482	0.546	43.51
13) 2-Chlorophen	1.568	1.428	1.339	1.344	1.349	1.330	1.310	1.381	6.54
14) Decane		2.498	1.943	2.110	2.268	1.957	2.082	2.143	9.81
15) 1,3-Dichloro	1.915	1.623	1.586	1.527	1.567	1.501	1.477	1.600	9.25
16) 1,4-Dichloro	2.100	1.761	1.598	1.580	1.603	1.563	1.536	1.677	11.92
17) Benzyl alcoh	0.559	0.520	0.834	0.894	0.615	0.837	0.749	0.715	20.94
----- Linear regression ----- Coefficient = 0.9978									
Response Ratio = -0.03389 + 0.85709 *A									
18) 1,2-Dichloro	1.866	1.592	1.517	1.501	1.500	1.484	1.431	1.556	9.30
19) Acetophenone	2.433	2.110	1.744	1.937	1.921	1.831	1.867	1.978	11.65
20) 2-Methylphen	1.604	1.344	1.165	1.258	1.209	1.201	1.223	1.286	11.76
21) 2,2'-oxybis(	0.554	0.463	0.419	0.447	0.441	0.421	0.419	0.452	10.60
22) 3&4-Methylph	1.294	1.200	1.234	1.299	1.208	1.267	1.221	1.246	3.26
23) n-Nitroso-di	1.280	1.169	0.992	1.087	1.068	1.015	1.060	1.096	9.02
24) Hexachloroet	0.597	0.533	0.521	0.513	0.511	0.507	0.493	0.525	6.50
25) I Naphthalene-d8	ISTD								
26) Nitrobenzene	0.534	0.497	0.473	0.466	0.473	0.465	0.455	0.480	5.59
27) Nitrobenzene	0.195	0.176	0.190	0.177	0.177	0.183	0.175	0.182	4.31
28) Quinoline	0.696	0.635	0.627	0.623	0.606	0.631	0.607	0.632	4.77
29) Isophorone	0.928	0.800	0.735	0.754	0.734	0.737	0.733	0.774	9.29
30) 2-Nitropheno	0.158	0.168	0.199	0.184	0.171	0.188	0.172	0.177	7.83
31) 2,4-Dimethyl	0.390	0.349	0.372	0.355	0.332	0.357	0.329	0.355	6.05
32) Benzoic acid			0.230	0.225	0.168	0.232	0.202	0.212	12.73
33) bis(2-Chloro	0.493	0.446	0.440	0.423	0.410	0.427	0.405	0.435	6.78
34) 2,4-Dichloro		0.229	0.279	0.259	0.242	0.267	0.247	0.254	7.13
35) 1,3,5-Trichl	0.364	0.312	0.367	0.330	0.303	0.347	0.301	0.332	8.42
36) 1,2,4-Trichl	0.356	0.303	0.339	0.313	0.295	0.330	0.295	0.319	7.31
37) 1,2,3-Trichl	0.344	0.302	0.330	0.308	0.286	0.336	0.291	0.314	7.25
38) alpha-Terpin	0.457	0.411	0.356	0.374	0.376	0.365	0.361	0.386	9.44
39) Naphthalene	1.316	1.148	1.164	1.087	1.069	1.132	1.040	1.137	8.00

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1468-ICC1468
Lab FileID: R43546.D

40)	4-Chloroanil	0.443	0.384	0.432	0.407	0.359	0.406	0.359	0.399	8.32
41)	2,3-Dichloro	0.347	0.319	0.329	0.322	0.292	0.332	0.296	0.320	6.10
42)	Caprolactam	0.159	0.156	0.163	0.170	0.151	0.166	0.165	0.161	4.00
43)	Hexachlorobu	0.220	0.189	0.211	0.193	0.178	0.201	0.179	0.196	7.99
44)	4-Chloro-3-m		0.250	0.282	0.262	0.239	0.267	0.226	0.254	7.87
45)	2-Methylnaph	0.775	0.685	0.764	0.727	0.648	0.736	0.657	0.713	7.07
46)	1-Methylnaph	1.018	0.783	0.719	0.705	0.682	0.725	0.670	0.757	15.93
	----- Linear regression ----- Coefficient = 0.9994									
	Response Ratio = -0.00412 + 0.71988 *A									
47)	Dimethylnaph	0.608	0.562	0.622	0.597	0.509	0.619	0.544	0.580	7.37
48)	I Acenaphthene-d10	----------ISTD----------								
49)	Hexachlorocy		0.204	0.392	0.350	0.232	0.366	0.284	0.305	25.14
	----- Linear regression ----- Coefficient = 0.9966									
	Response Ratio = -0.09778 + 0.40056 *A									
50)	2,4,6-Trichl	0.314	0.299	0.393	0.333	0.301	0.357	0.303	0.329	10.71
51)	2,4,5-Trichl	0.347	0.340	0.404	0.365	0.295	0.386	0.320	0.351	10.73
52)	2-Fluorobiph	1.645	1.437	1.644	1.556	1.390	1.573	1.380	1.518	7.52
53)	2-Chloronaph	1.263	1.130	1.260	1.129	1.091	1.197	1.066	1.162	6.79
54)	Biphenyl	1.706	1.549	1.708	1.575	1.476	1.648	1.467	1.590	6.33
55)	2-Nitroanili	0.354	0.388	0.444	0.415	0.409	0.425	0.400	0.405	7.15
56)	Dimethylphth	1.308	1.214	1.366	1.228	1.152	1.291	1.162	1.246	6.34
57)	Acenaphthyle	2.015	1.860	2.101	1.955	1.816	1.987	1.791	1.932	5.89
58)	2,6-Dinitrot	0.187	0.229	0.298	0.269	0.239	0.286	0.250	0.251	14.99
59)	3-Nitroanili	0.299	0.253	0.318	0.297	0.279	0.306	0.284	0.291	7.26
60)	Acenaphthene	1.452	1.276	1.377	1.302	1.209	1.314	1.205	1.305	6.77
61)	2,4-Dinitrop			0.181	0.149	0.060	0.168	0.118	0.135	35.72
	----- Linear regression ----- Coefficient = 0.9965									
	Response Ratio = -0.08867 + 0.19387 *A									
62)	4-Nitropheno			0.169	0.147	0.103	0.154	0.134	0.141	17.51
	----- Linear regression ----- Coefficient = 0.9948									
	Response Ratio = -0.02484 + 0.17328 *A									
63)	Dibenzofuran	1.890	1.640	1.820	1.699	1.570	1.741	1.596	1.708	6.89
64)	2,4-Dinitrot	0.299	0.331	0.388	0.354	0.334	0.364	0.330	0.343	8.36
65)	2,3,4,6-Tetr	0.218	0.235	0.322	0.272	0.235	0.293	0.245	0.260	14.25
66)	Diethylphtha	1.454	1.300	1.379	1.351	1.217	1.308	1.222	1.319	6.44
67)	Fluorene	1.414	1.298	1.442	1.349	1.224	1.389	1.247	1.337	6.26
68)	4-Chlorophen	0.626	0.572	0.676	0.594	0.539	0.623	0.548	0.597	8.13
69)	4-Nitroanili	0.245	0.260	0.307	0.288	0.286	0.300	0.290	0.282	7.76
70)	I Phenanthrene-d10	----------ISTD----------								
71)	4,6-Dinitro-			0.153	0.130	0.086	0.140	0.103	0.122	22.25
	----- Linear regression ----- Coefficient = 0.9949									
	Response Ratio = -0.02971 + 0.15979 *A									
72)	Atrazine	0.093	0.087	0.104	0.101	0.088	0.102	0.091	0.095	7.26
73)	n-Nitrosodip	0.607	0.541	0.666	0.627	0.543	0.620	0.562	0.595	8.00
74)	1,2-Diphenyl	1.260	1.122	1.054	1.046	1.087	1.029	1.031	1.090	7.52
75)	2,4,6-Tribro		0.118	0.150	0.142	0.117	0.153	0.127	0.135	11.89
76)	4-Bromopheny	0.230	0.198	0.258	0.225	0.194	0.240	0.202	0.221	10.81
77)	Hexachlorobe	0.259	0.226	0.281	0.255	0.211	0.271	0.225	0.247	10.63
78)	Pentachlorop		0.091	0.179	0.151	0.098	0.169	0.125	0.135	27.40
	----- Linear regression ----- Coefficient = 0.9950									
	Response Ratio = -0.05203 + 0.18458 *A									
79)	Phenanthrene	1.303	1.122	1.289	1.207	1.077	1.217	1.092	1.187	7.73

7.7

Initial Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1468-ICC1468
Lab FileID: R43546.D

80)	Anthracene	1.331	1.176	1.332	1.287	1.132	1.299	1.155	1.245	6.98
81)	Carbazole	1.105	0.976	1.053	0.979	0.961	1.013	0.944	1.004	5.68
82)	Di-n-butylph	1.319	1.216	1.413	1.370	1.161	1.357	1.222	1.294	7.29
83)	Fluoranthene	1.192	1.056	1.277	1.221	1.015	1.225	1.053	1.148	9.06
84)	Octadecane	0.783	0.696	0.632	0.668	0.658	0.644	0.641	0.675	7.75
85)	I Chrysene-d12	ISTD								
86)	Benzidine	0.274	0.303	0.233	0.289	0.242	0.220	0.236	0.257	12.34
87)	Pyrene	1.533	1.341	1.614	1.494	1.332	1.487	1.298	1.443	8.28
88)	Butyl steara	0.531	0.495	0.523	0.483	0.483	0.476	0.478	0.496	4.54
89)	Terphenyl-d1	1.041	0.924	1.147	1.062	0.914	1.061	0.935	1.012	8.75
90)	Butylbenzylp	0.581	0.567	0.700	0.628	0.558	0.638	0.580	0.607	8.40
91)	Benzo[a]anth	1.368	1.212	1.393	1.309	1.205	1.326	1.168	1.283	6.84
92)	3,3'-Dichlor	0.359	0.349	0.379	0.363	0.343	0.357	0.353	0.357	3.25
93)	Chrysene	1.459	1.219	1.389	1.313	1.177	1.289	1.168	1.288	8.47
94)	bis(2-Ethylh	0.822	0.781	0.985	0.902	0.761	0.915	0.832	0.857	9.34
95)	I Perylene-d12	ISTD								
96)	Di-n-octylph	1.360	1.341		1.603	1.339	1.861	1.407	1.485	14.11
97)	Benzo[b]fluo	1.303	1.291		1.580	1.273	1.759	1.348	1.426	13.93
98)	Benzo[k]fluo	1.631	1.390	1.925	1.667	1.380	1.714	1.439	1.592	12.62
99)	Benzo[a]pyre	1.209	1.151	1.626	1.419	1.172	1.538	1.209	1.332	14.55
100)	Indeno[1,2,3	1.275	1.183	1.282	1.490	1.249	1.388	1.353	1.317	7.71
101)	Dibenz(a,h)a	0.901	0.872	0.945	1.076	0.893	1.015	0.954	0.951	7.67
102)	Dibenz[a,h]a	1.092	1.013	1.097	1.237	1.031	1.175	1.123	1.110	7.04
103)	7,12-Dimethy	0.618	0.598	0.927	0.808	0.607	0.861	0.657	0.725	18.90

----- Linear regression ----- Coefficient = 0.9944
Response Ratio = -0.08178 + 0.92515 *A

104)	Benzo[g,h,i]	1.114	0.981	0.910	1.143	0.964	1.000	1.058	1.024	8.21

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

MR1468.M Mon Mar 07 09:22:48 2005 RPT1

7.7

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1479-CC1468
Lab FileID: R43741.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\ER1479\R43741.D
Acq On : 18 Mar 2005 10:45 am
Sample : CC1468-25
Misc : OP19709,ER1479
MS Integration Params: LSCINT.P

Vial: 2
Operator: WENDYS
Inst : MSR
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MR1468.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Mar 18 11:31:36 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	-0.17	7.80
			True	Calc.	% Drift			
2	t	1,4-Dioxane	25.000	24.449	2.2	134	-0.07	2.13
			AvgRF	CCRF	% Dev			
3	t	Pyridine	1.665	1.466	12.0	108	0.00	2.66
4	t	N-Nitrosodimethylamine	0.871	0.639	26.6#	91	-0.07	2.68
5	S	2-Fluorophenol	1.318	1.333	-1.1	122	-0.07	4.96
6	t	Indene	2.614	2.547	2.6	125	-0.16	8.64
7	t	Cumene	3.142	3.059	2.6	128	-0.15	5.81
8	S	Phenol-d5	1.984	1.877	5.4	122	-0.09	7.36
9	t	Phenol	1.807	1.534	15.1	107	-0.09	7.39
10	t	Aniline	1.965	1.882	4.2	138	-0.14	7.12
11	t	bis(2-Chloroethyl)ether	1.416	1.259	11.1	110	-0.16	7.32
12	t	Benzaldehyde	0.546	0.303	44.5#	76	-0.12	6.75
13	t	2-Chlorophenol	1.381	1.322	4.3	121	-0.13	7.41
14	t	Decane	2.143	1.668	22.2#	96	-0.16	7.58
15	t	1,3-Dichlorobenzene	1.600	1.600	0.0	130	-0.16	7.69
16	t	1,4-Dichlorobenzene	1.677	1.597	4.8	125	-0.16	7.85
			True	Calc.	% Drift			
17	t	Benzyl alcohol	25.000	26.311	-5.2	136	-0.12	8.56
			AvgRF	CCRF	% Dev			
18	t	1,2-Dichlorobenzene	1.556	1.524	2.1	128	-0.16	8.39
19	t	Acetophenone	1.978	1.815	8.2	117	-0.15	9.26
20	t	2-Methylphenol	1.286	1.211	5.8	119	-0.12	9.13
21	t	2,2'-oxybis(1-Chloropropa	0.452	0.449	0.7	129	-0.16	8.95
22	t	3&4-Methylphenol	1.246	1.223	1.8	120	-0.07	9.69
23	t	n-Nitroso-di-n-propylamin	1.096	0.900	17.9	102	-0.17	9.42
24	t	Hexachloroethane	0.525	0.537	-2.3	131	-0.17	9.30
25	I	Naphthalene-d8	1.000	1.000	0.0	117	-0.18	11.96
26	S	Nitrobenzene-d5	0.480	0.429	10.6	110	-0.16	9.68
27	t	Nitrobenzene	0.182	0.182	0.0	121	-0.16	9.74
28	t	Quinoline	0.632	0.636	-0.6	122	-0.14	13.40
29	t	Isophorone	0.774	0.695	10.2	111	-0.16	10.57
30	t	2-Nitrophenol	0.177	0.189	-6.8	129	-0.15	10.85
31	t	2,4-Dimethylphenol	0.355	0.342	3.7	121	-0.13	11.37
32	t	Benzoic acid	0.212	0.177	16.5	102	-0.06	12.37
33	t	bis(2-Chloroethoxy)methan	0.435	0.395	9.2	114	-0.17	11.54
34	t	2,4-Dichlorophenol	0.254	0.263	-3.5	125	-0.07	11.88

7.7

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1479-CC1468
Lab FileID: R43741.D

35 t	1,3,5-Trichlorobenzene	0.332	0.341	-2.7	132	-0.17	10.78
36 t	1,2,4-Trichlorobenzene	0.319	0.327	-2.5	130	-0.17	11.88
37 t	1,2,3-Trichlorobenzene	0.314	0.323	-2.9	130	-0.17	12.71
38 t	alpha-Terpineol	0.386	0.317	17.9	103	-0.18	12.26
39 t	Naphthalene	1.137	1.102	3.1	124	-0.18	12.02
40 t	4-Chloroaniline	0.399	0.409	-2.5	133	-0.12	12.61
41 t	2,3-Dichloroaniline	0.320	0.328	-2.5	130	-0.17	15.91
42 t	Caprolactam	0.161	0.129	19.9	91	-0.20	13.93
43 t	Hexachlorobutadiene	0.196	0.209	-6.6	136	-0.18	12.80
44 t	4-Chloro-3-methylphenol	0.254	0.277	-9.1	143	-0.08	14.83
45 t	2-Methylnaphthalene	0.713	0.698	2.1	124	-0.18	14.59
		True	Calc.	% Drift			
46 t	1-Methylnaphthalene	25.000	25.858	-3.4	129	-0.18	14.96
		AvgRF	CCRF	% Dev			
47 t	Dimethylnaphthalene	0.580	0.584	-0.7	125	-0.17	16.93
48 I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.16	18.24
		True	Calc.	% Drift			
49 t	Hexachlorocyclopentadiene	50.000	41.427	17.1	104	-0.18	15.49
		AvgRF	CCRF	% Dev			
50 t	2,4,6-Trichlorophenol	0.329	0.360	-9.4	138	-0.14	16.02
51 t	2,4,5-Trichlorophenol	0.351	0.363	-3.4	131	-0.05	16.31
52 S	2-Fluorobiphenyl	1.518	1.536	-1.2	129	-0.18	16.19
53 t	2-Chloronaphthalene	1.162	1.226	-5.5	133	-0.18	16.36
54 t	Biphenyl	1.590	1.599	-0.6	126	-0.18	16.45
55 t	2-Nitroaniline	0.405	0.369	8.9	107	-0.10	17.16
56 t	Dimethylphthalate	1.246	1.265	-1.5	126	-0.15	17.91
57 t	Acenaphthylene	1.932	1.926	0.3	125	-0.16	17.74
58 t	2,6-Dinitrotoluene	0.251	0.274	-9.2	127	-0.14	18.07
59 t	3-Nitroaniline	0.291	0.292	-0.3	119	-0.07	18.55
60 t	Acenaphthene	1.305	1.244	4.7	120	-0.16	18.33
		True	Calc.	% Drift			
61 t	2,4-Dinitrophenol	50.000	43.458	13.1	96	-0.01	18.90
62 t	4-Nitrophenol	25.000	20.906	16.4	91	0.27	19.80
		AvgRF	CCRF	% Dev			
63 t	Dibenzofuran	1.708	1.738	-1.8	126	-0.15	18.85
64 t	2,4-Dinitrotoluene	0.343	0.377	-9.9	132	-0.11	19.24
65	2,3,4,6-Tetrachlorophenol	0.260	0.289	-11.2	137	-0.11	19.50
66 t	Diethylphthalate	1.319	1.250	5.2	119	-0.15	19.99
67 t	Fluorene	1.337	1.325	0.9	123	-0.15	19.81
68 t	4-Chlorophenyl-phenylethe	0.597	0.640	-7.2	135	-0.14	19.95
69 t	4-Nitroaniline	0.282	0.305	-8.2	122	-0.04	20.35
70 I	Phenanthrene-d10	1.000	1.000	0.0	115	-0.14	22.23
		True	Calc.	% Drift			
71 t	4,6-Dinitro-2-methylpheno	25.000	24.043	3.8	119	-0.08	20.37
		AvgRF	CCRF	% Dev			
72 t	Atrazine	0.095	0.103	-8.4	130	-0.14	21.98
73 t	n-Nitrosodiphenylamine	0.595	0.562	5.5	115	-0.14	20.36
74 t	1,2-Diphenylhydrazine	1.090	0.884	18.9	99	-0.15	20.36
75 S	2,4,6-Tribromophenol	0.135	0.157	-16.3	143	-0.11	20.59
76 t	4-Bromophenyl-phenylether	0.221	0.240	-8.6	137	-0.14	21.21

7.7

Continuing Calibration Summary

Job Number: N93379
Account: AGMPAL Arcadis Geraghty & Miller
Project: PSEG, Hancock's Bridge, NJ

Sample: ER1479-CC1468
Lab FileID: R43741.D

77	t	Hexachlorobenzene	0.247	0.276	-11.7	142	-0.14	21.49
			True	Calc:	% Drift			
78	t	Pentachlorophenol	50.000	47.075	5.8	122	-0.09	22.10
			AvgRF	CCRF	% Dev			
79	t	Phenanthrene	1.187	1.151	3.0	122	-0.14	22.29
80	t	Anthracene	1.245	1.245	0.0	124	-0.14	22.41
81	t	Carbazole	1.004	1.010	-0.6	123	-0.09	23.00
82	t	Di-n-butylphthalate	1.294	1.224	5.4	116	-0.14	24.14
83	t	Fluoranthene	1.148	1.127	1.8	124	-0.13	25.23
84	t	Octadecane	0.675	0.536	20.6#	96	-0.14	22.38
85	I	Chrysene-d12	1.000	1.000	0.0	106	-0.14	28.67
86	t	Benzidine	0.257	0.216	16.0	97	-0.02	25.84
87	t	Pyrene	1.443	1.479	-2.5	121	-0.12	25.74
88		Butyl stearate	0.496	0.405	18.3	90	-0.14	27.88
89	S	Terphenyl-d14	1.012	1.107	-9.4	126	-0.13	26.30
90	t	Butylbenzylphthalate	0.607	0.591	2.6	108	-0.14	27.67
91	t	Benzo[a]anthracene	1.283	1.228	4.3	112	-0.13	28.64
92	t	3,3'-Dichlorobenzidine	0.357	0.394	-10.4	119	-0.08	28.79
93	t	Chrysene	1.288	1.322	-2.6	120	-0.13	28.73
94	t	bis(2-Ethylhexyl)phthalat	0.857	0.850	0.8	109	-0.14	29.19
95	I	Perylene-d12	1.000	1.000	0.0	104	-0.13	31.83
96	t	Di-n-octylphthalate	1.485	1.413	4.8	104	-0.14	30.57
97	t	Benzo[b]fluoranthene	1.426	1.322	7.3	102	-0.13	31.07
98	t	Benzo[k]fluoranthene	1.592	1.611	-1.2	116	-0.14	31.12
99	t	Benzo[a]pyrene	1.332	1.324	0.6	113	-0.13	31.72
100	t	Indeno[1,2,3-cd]pyrene	1.317	1.276	3.1	98	-0.10	33.85
101	t	Dibenz(a,h)acridine	0.951	0.965	-1.5	105	-0.11	33.47
102	t	Dibenz[a,h]anthracene	1.110	1.071	3.5	99	-0.11	33.88
			True	Calc.	% Drift			
103	t	7,12-Dimethylbenz(a)anthr	25.000	22.037	11.9	108	-0.16	31.08
			AvgRF	CCRF	% Dev			
104	t	Benzo[g,h,i]perylene	1.024	0.983	4.0	96	-0.09	34.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
R43741.D MR1468.M Fri Mar 18 12:38:53 2005 RPT1

7.7

GC/MS Semi-volatiles

Raw Data

8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74037.D Vial: 26
Acq On : 2 Apr 2005 3:12 am Operator: SEANWE
Sample : N93379-1 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:14 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.64	152	162438	40.00 ppb	0.01
25) Naphthalene-d8	10.67	136	631491	40.00 ppb	0.01
48) Acenaphthene-d10	14.12	164	301014	40.00 ppb	0.02
69) Phenanthrene-d10	17.49	188	424267	40.00 ppb	0.01
84) Chrysene-d12	22.52	240	323807	40.00 ppb	0.01
94) Perylene-d12	24.92	264	303459	40.00 ppb	0.02
System Monitoring Compounds					
5) 2-Fluorophenol	6.76	112	142017	22.26 ppb	0.01
Spiked Amount 50.000			Recovery =	44.52%	
8) Phenol-d5	8.24	99	117204	13.59 ppb	0.03
Spiked Amount 50.000			Recovery =	27.18%	
26) Nitrobenzene-d5	9.51	82	246932	44.77 ppb	0.02
Spiked Amount 50.000			Recovery =	89.54%	
52) 2-Fluorobiphenyl	12.67	172	443934	40.77 ppb	0.01
Spiked Amount 50.000			Recovery =	81.54%	
74) 2,4,6-Tribromophenol	15.89	330	61347	40.24 ppb	0.01
Spiked Amount 50.000			Recovery =	80.48%	
87) Terphenyl-d14	20.81	244	373881	44.66 ppb	0.01
Spiked Amount 50.000			Recovery =	89.32%	
Target Compounds					Qvalue

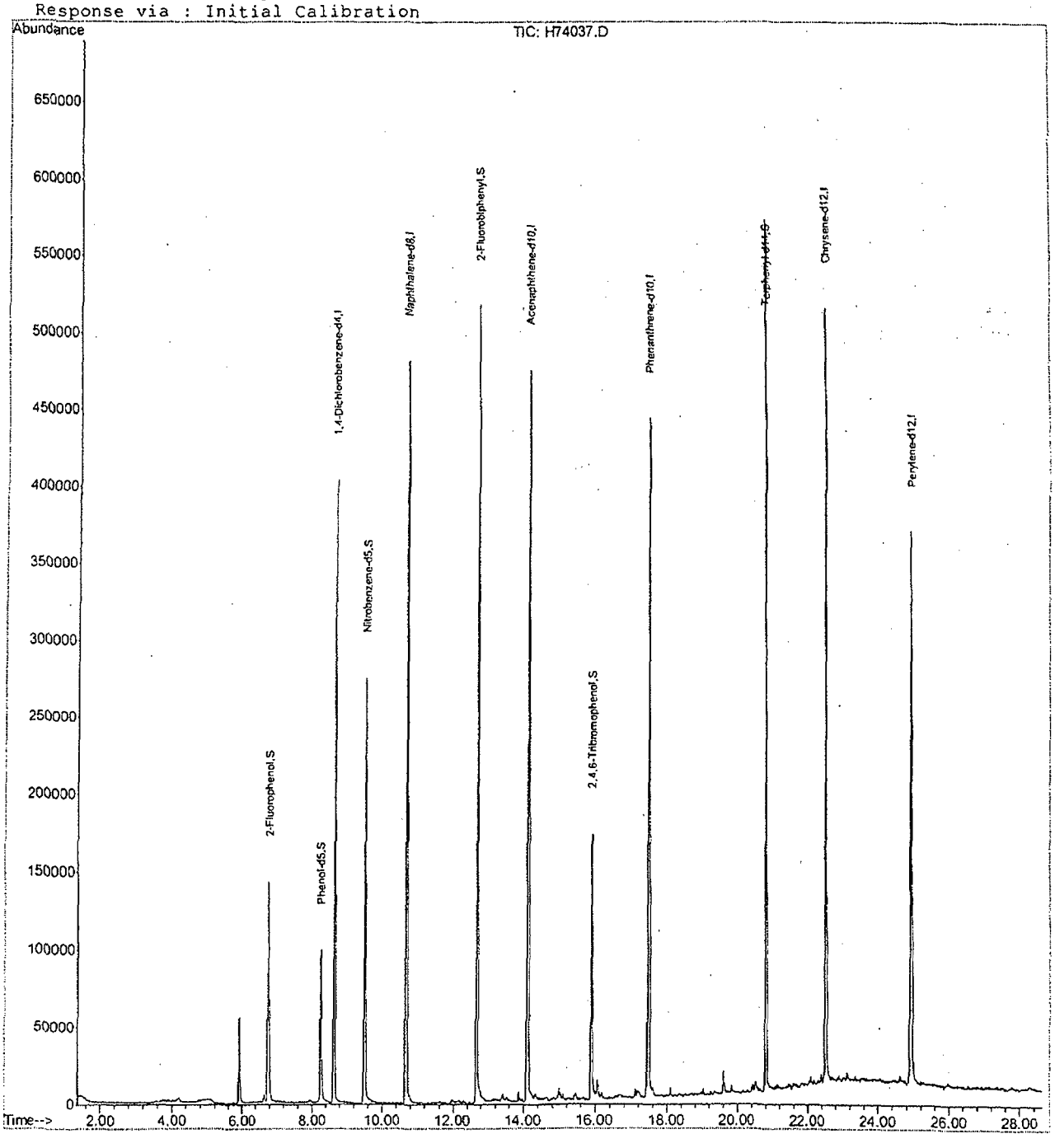
8.1.1 B

(#) = qualifier out of range (m) = manual integration
H74037.D MH3145.M Mon Apr 04 09:04:47 2005 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH3145\H74037.D Vial: 26
Acq On : 2 Apr 2005 3:12 am Operator: SEANWE
Sample : N93379-1 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:14 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration



8.1.1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74038.D Vial: 27
Acq On : 2 Apr 2005 3:46 am Operator: SEANWE
Sample : N93379-2 Inst : MSH
Misc : OP19692,EH3145,980 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 10:11 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.64	152	151724	40.00	ppb	0.02
25) Naphthalene-d8	10.68	136	578453	40.00	ppb	0.02
48) Acenaphthene-d10	14.13	164	271059	40.00	ppb	0.03
69) Phenanthrene-d10	17.49	188	384031	40.00	ppb	0.02
84) Chrysene-d12	22.52	240	304464	40.00	ppb	0.02
94) Perylene-d12	24.93	264	305873	40.00	ppb	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	6.76	112	106710	17.91	ppb	0.02
Spiked Amount 50.000			Recovery =	35.82%		
8) Phenol-d5	8.25	99	91451	11.36	ppb	0.04
Spiked Amount 50.000			Recovery =	22.72%		
26) Nitrobenzene-d5	9.50	82	179591	35.54	ppb	0.02
Spiked Amount 50.000			Recovery =	71.08%		
52) 2-Fluorobiphenyl	12.67	172	328120	33.47	ppb	0.02
Spiked Amount 50.000			Recovery =	66.94%		
74) 2,4,6-Tribromophenol	15.90	330	53579	38.83	ppb	0.02
Spiked Amount 50.000			Recovery =	77.66%		
87) Terphenyl-d14	20.82	244	328062	41.67	ppb	0.02
Spiked Amount 50.000			Recovery =	83.34%		

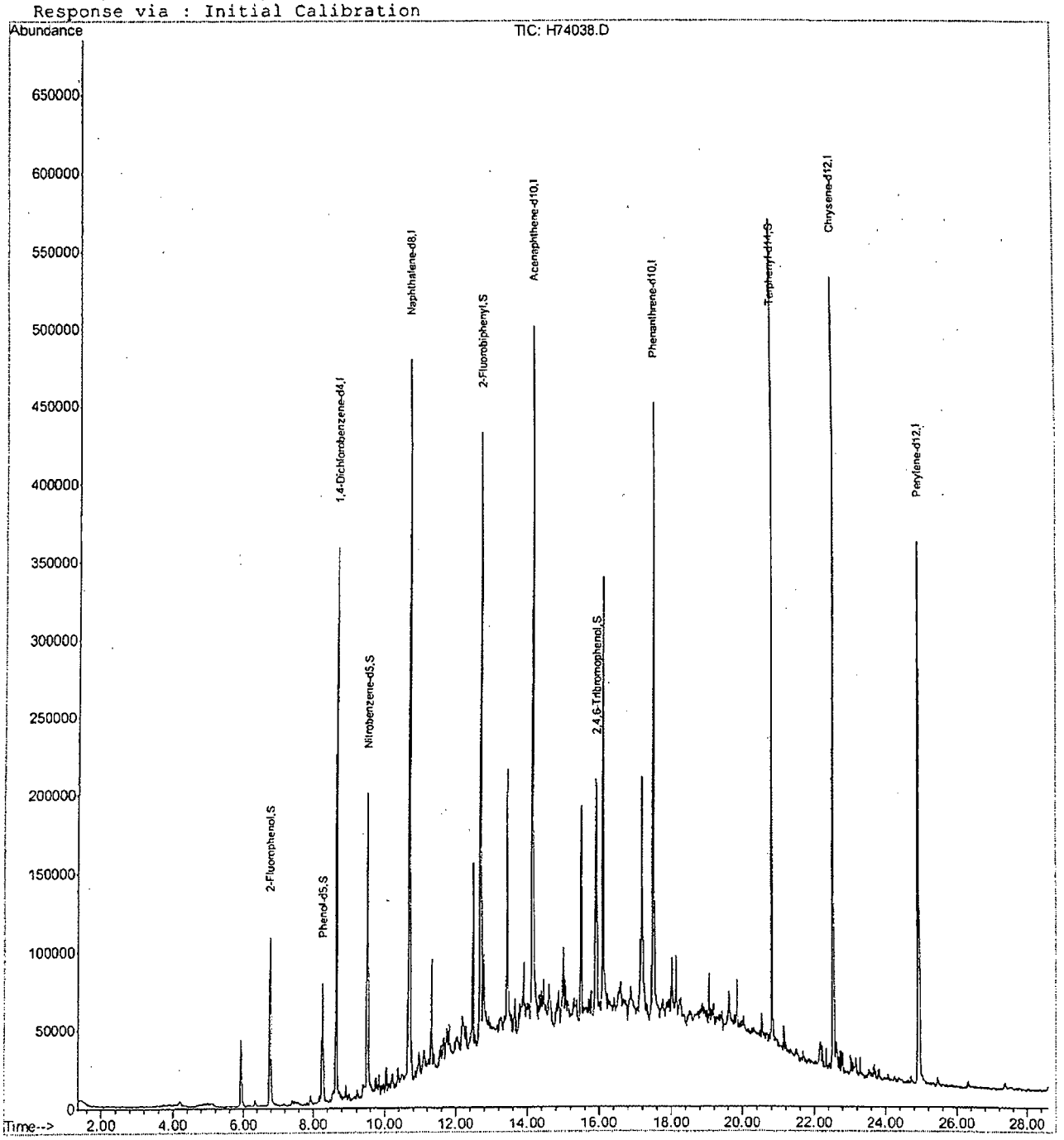
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H74038.D MH3145.M Mon Apr 04 10:11:24 2005 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH3145\H74038.D Vial: 27
Acq On : 2 Apr 2005 3:46 am Operator: SEANWE
Sample : N93379-2 Inst : MSH
Misc : OP19692,EH3145,980 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 10:11 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Apr 04 10:09:32 2005
Response via : Initial Calibration



8.1.2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74039.D Vial: 28
Acq On : 2 Apr 2005 4:31 am Operator: SEANWE
Sample : N93379-3 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:15 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

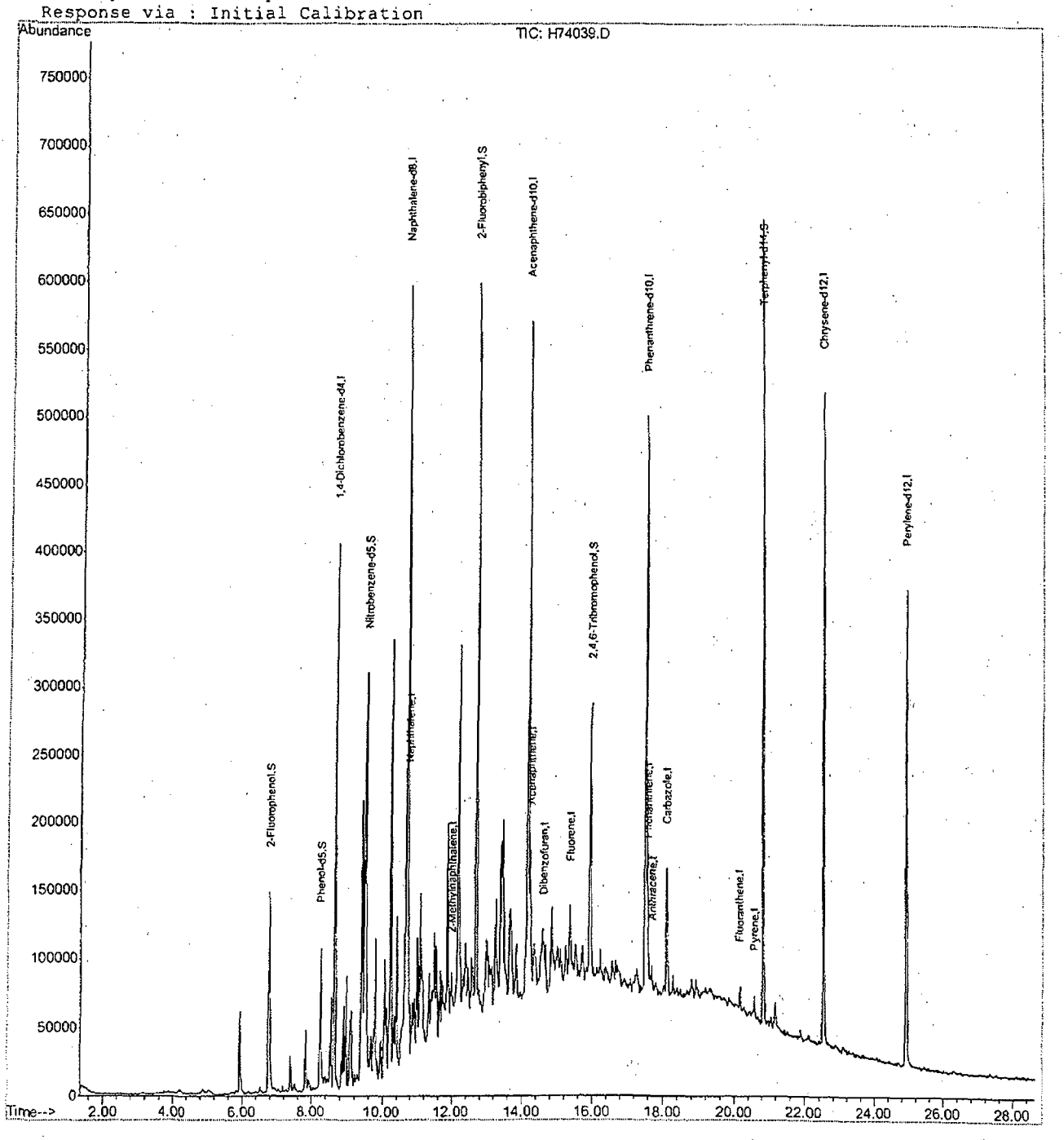
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.65	152	166034	40.00	ppb	0.02
25) Naphthalene-d8	10.68	136	627729	40.00	ppb	0.02
48) Acenaphthene-d10	14.13	164	295517	40.00	ppb	0.03
69) Phenanthrene-d10	17.50	188	410401	40.00	ppb	0.03
84) Chrysene-d12	22.52	240	312340	40.00	ppb	0.02
94) Perylene-d12	24.93	264	306595	40.00	ppb	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	6.76	112	145444	22.31	ppb	0.02
Spiked Amount 50.000			Recovery =	44.62%		
8) Phenol-d5	8.25	99	122114	13.86	ppb	0.04
Spiked Amount 50.000			Recovery =	27.72%		
26) Nitrobenzene-d5	9.51	82	255163	46.53	ppb	0.03
Spiked Amount 50.000			Recovery =	93.06%		
52) 2-Fluorobiphenyl	12.67	172	438377	41.01	ppb	0.02
Spiked Amount 50.000			Recovery =	82.02%		
74) 2,4,6-Tribromophenol	15.91	330	70262	47.65	ppb	0.03
Spiked Amount 50.000			Recovery =	95.30%		
87) Terphenyl-d14	20.83	244	362898	44.94	ppb	0.03
Spiked Amount 50.000			Recovery =	89.88%		
Target Compounds						Qvalue
39) Naphthalene	10.71	128	63953	4.30	ppb	84
45) 2-Methylnaphthalene	11.97	142	19579	2.00	ppb	91
60) Acenaphthene	14.20	153	44489	5.01	ppb	98
63) Dibenzofuran	14.57	168	33920	2.69	ppb	98
66) Fluorene	15.34	166	43632	4.45	ppb	95
78) Phenanthrene	17.55	178	64336	5.30	ppb	99
79) Anthracene	17.67	178	11877	0.95	ppb	98
80) Carbazole	18.09	167	114412	9.93	ppb	99
82) Fluoranthene	20.14	202	15769	1.36	ppb	96
86) Pyrene	20.57	202	10864	0.94	ppb	93

(#) = qualifier out of range (m) = manual integration
H74039.D MH3145.M Mon Apr 04 09:05:03 2005 MSH

Quantitation Report

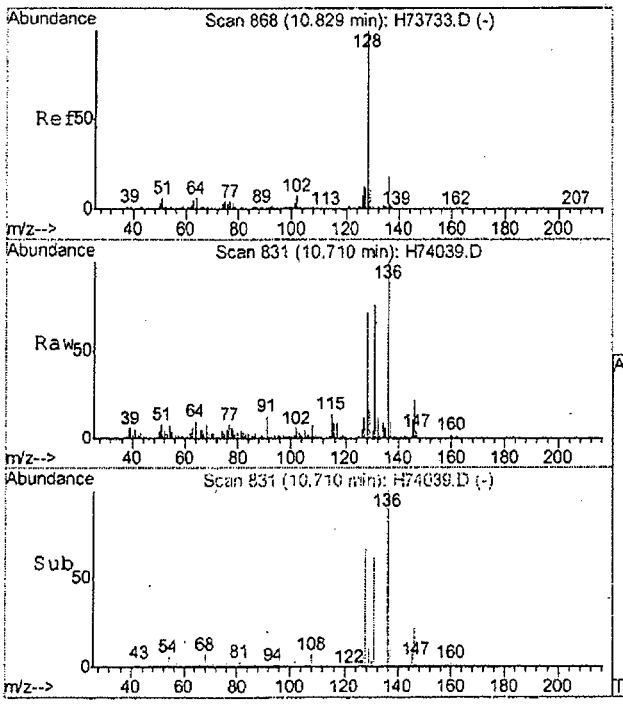
Data File : C:\HPCHEM\1\DATA\EH3145\H74039.D Vial: 28
Acq On : 2 Apr 2005 4:31 am Operator: SEANWE
Sample : N93379-3 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:15 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration



8.1.3

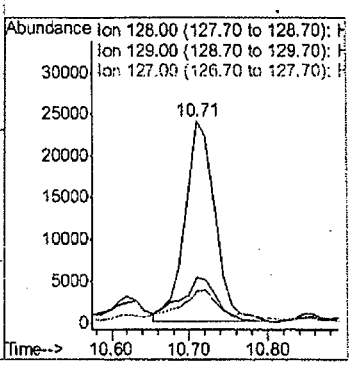
H74039.D MH3145.M Mon Apr 04 09:05:03 2005 MSH Page 2

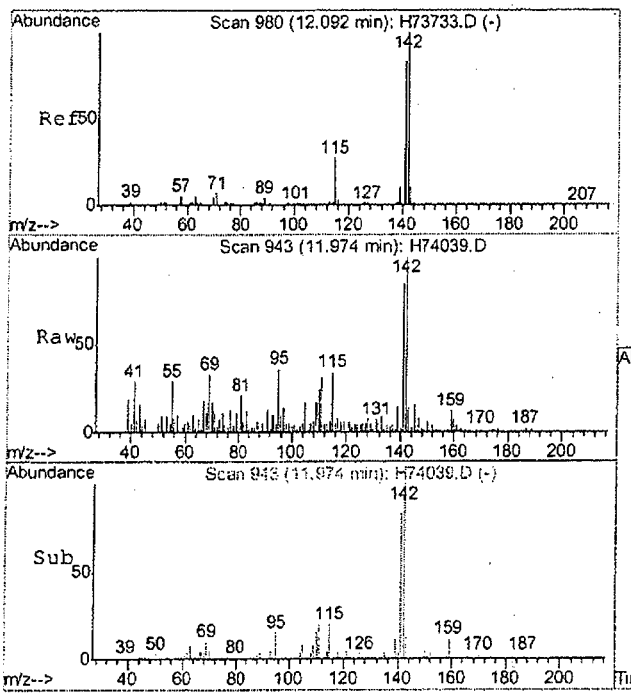


#39
Naphthalene
Concen: 4.30 ppb
RT: 10.71 min Scan# 831
Delta R.T. 0.02 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:128 Resp: 63953

Ion	Ratio	Lower	Upper
128	100		
129	21.0	0.0	40.9
127	13.2	0.0	40.9

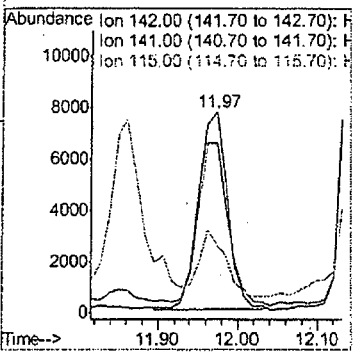




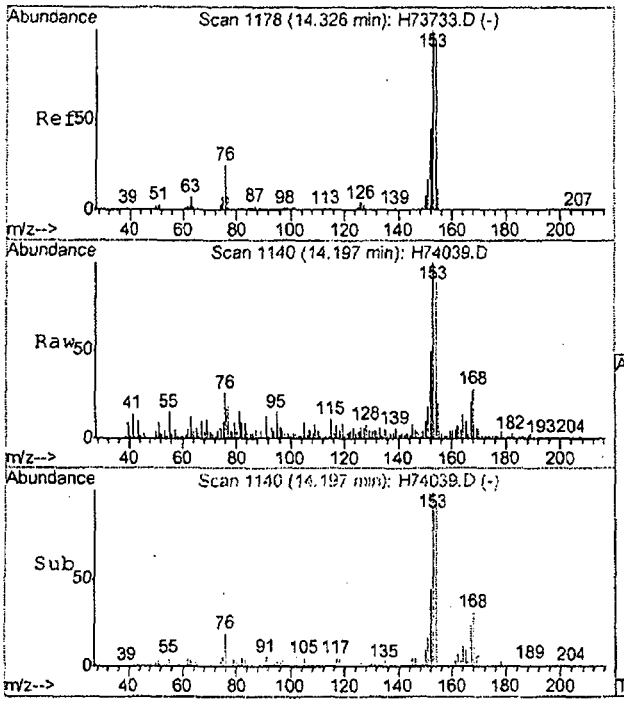
#45
2-Methylnaphthalene
Concen: 2.00 ppb
RT: 11.97 min Scan# 943
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:142 Resp: 19579

Ion	Ratio	Lower	Upper
142	100		
141	80.6	54.4	114.4
115	16.6	0.0	58.7



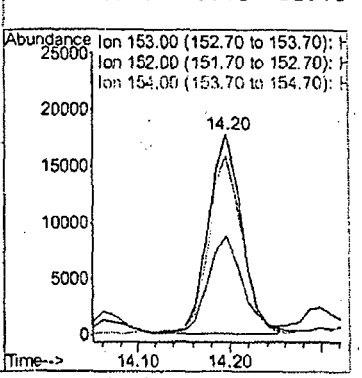
8.1.3 8

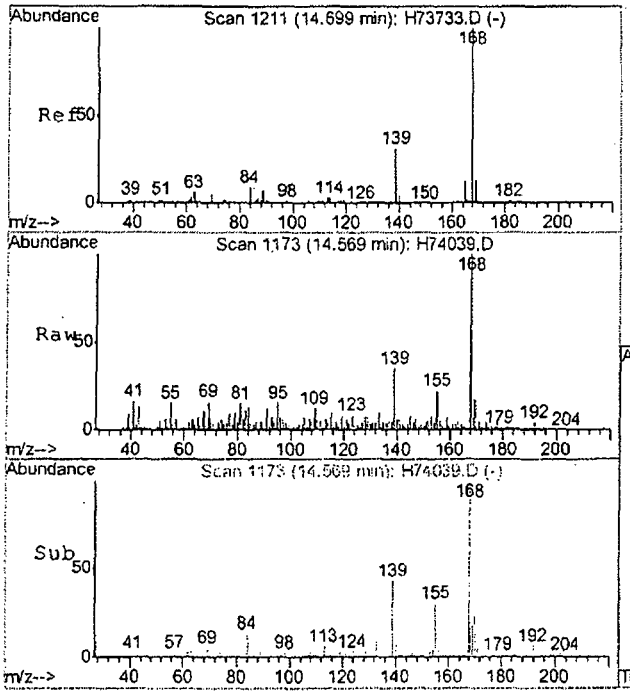


#60
Acenaphthene
Concen: 5.01 ppb
RT: 14.20 min Scan# 1140
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:153 Resp: 44489

Ion	Ratio	Lower	Upper
153	100		
152	48.2	15.6	75.6
154	89.4	59.1	119.1

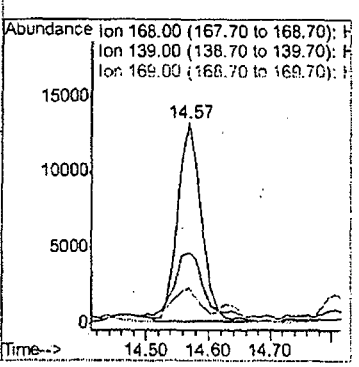




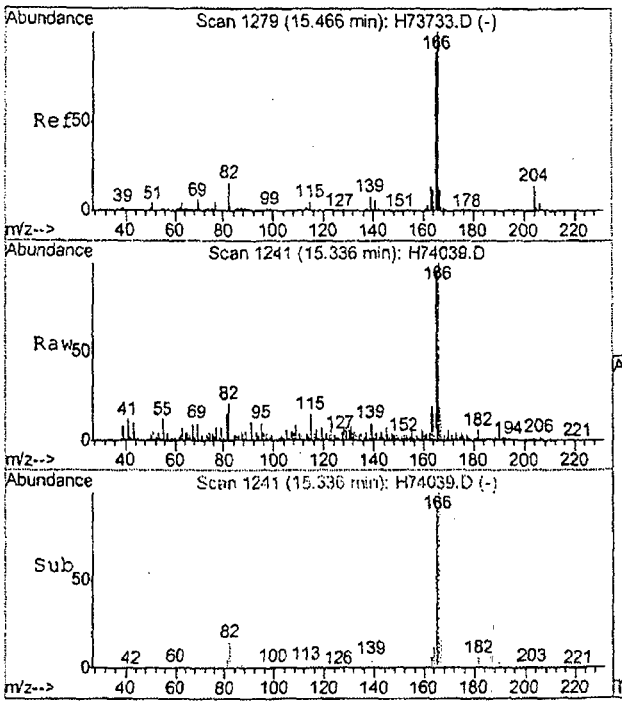
#63
Dibenzofuran
Concen: 2.69 ppb
RT: 14.57 min Scan# 1173
Delta R.T. 0.02 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:168 Resp: 33920

Ion	Ratio	Lower	Upper
168	100		
139	31.7	2.2	62.2
169	16.4	0.0	44.0



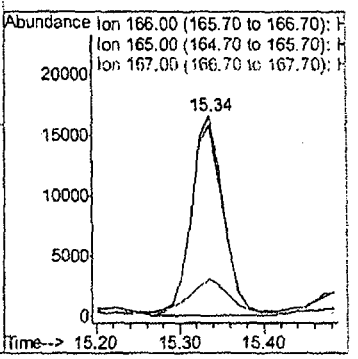
8.1.3

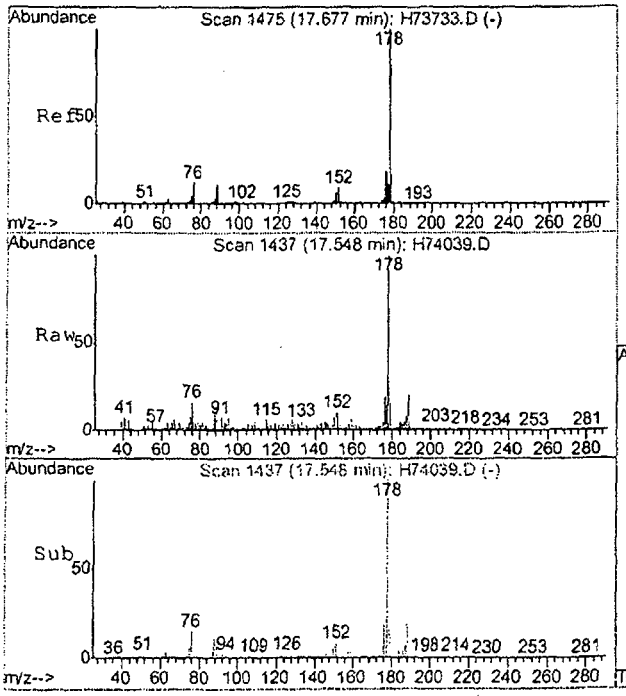


#66
Fluorene
Concen: 4.45 ppb
RT: 15.34 min Scan# 1241
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:166 Resp: 43632

Ion	Ratio	Lower	Upper
166	100		
165	93.5	59.7	119.7
167	17.3	0.0	43.2

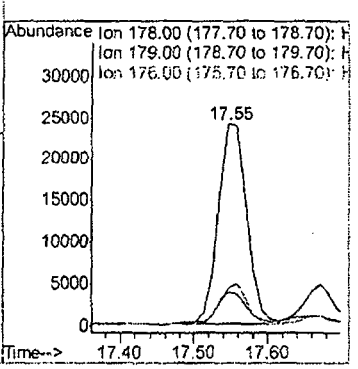




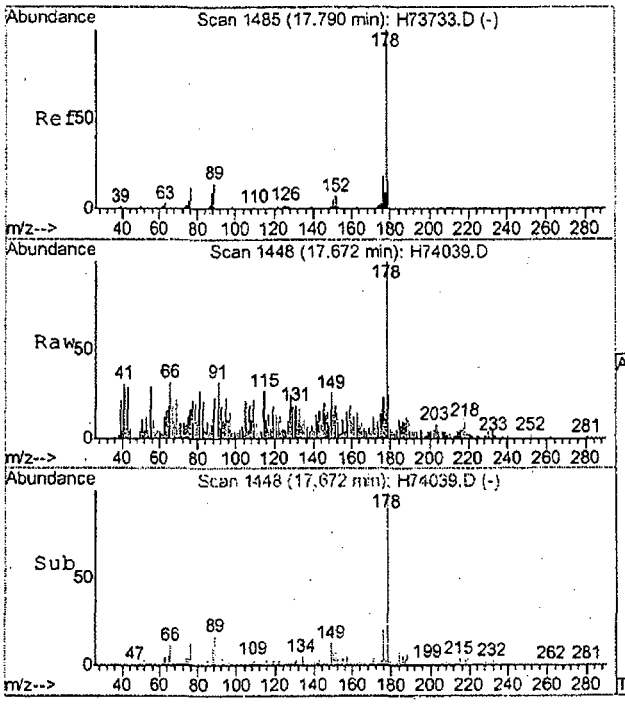
#78
Phenanthrene
Concen: 5.30 ppb
RT: 17.55 min Scan# 1437
Delta R.T. 0.02 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:178 Resp: 64336

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	44.6
176	17.8	0.0	48.6



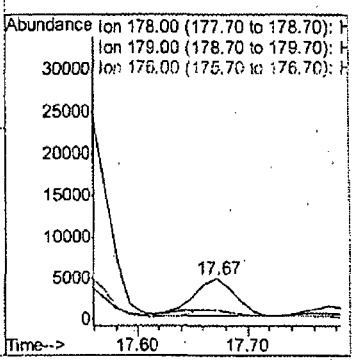
8.1.3

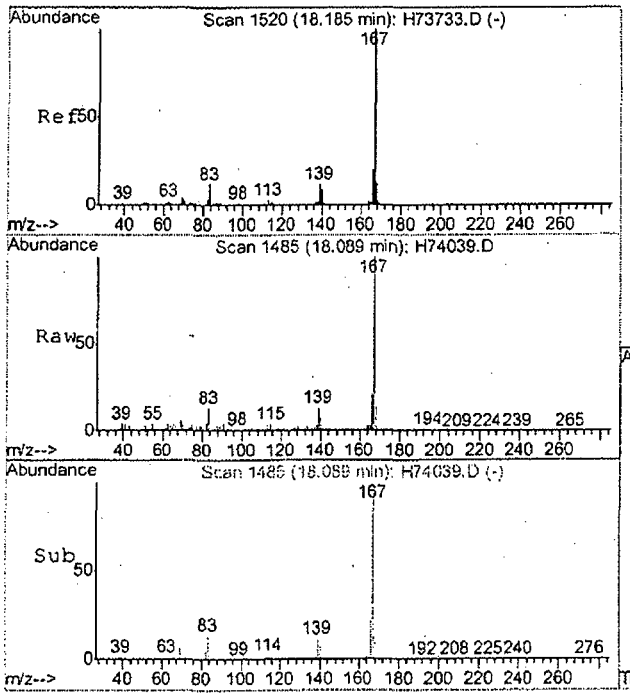


#79
Anthracene
Concen: 0.95 ppb
RT: 17.67 min Scan# 1448
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:178 Resp: 11877

Ion	Ratio	Lower	Upper
178	100		
179	13.7	0.0	45.2
176	17.9	0.0	48.2

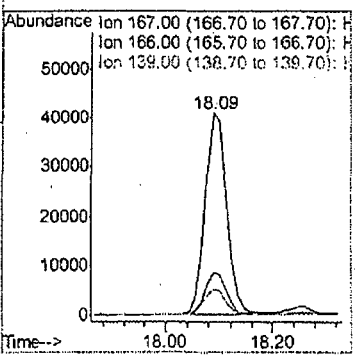




#80
Carbazole
Concen: 9.93 ppb
RT: 18.09 min Scan# 1485
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

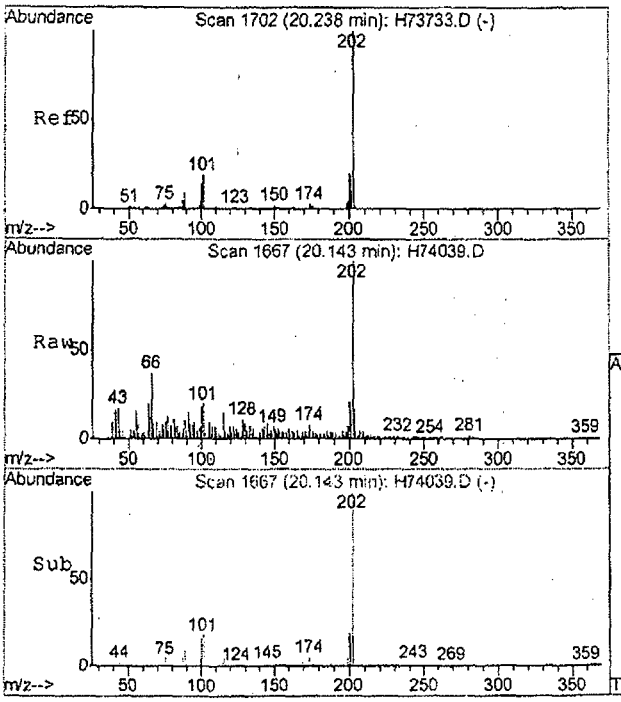
Tgt Ion:167 Resp: 114412

Ion	Ratio	Lower	Upper
167	100		
166	20.6	0.0	50.2
139	12.3	0.0	42.1



8.1.3

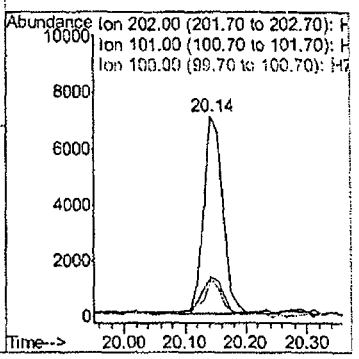
8

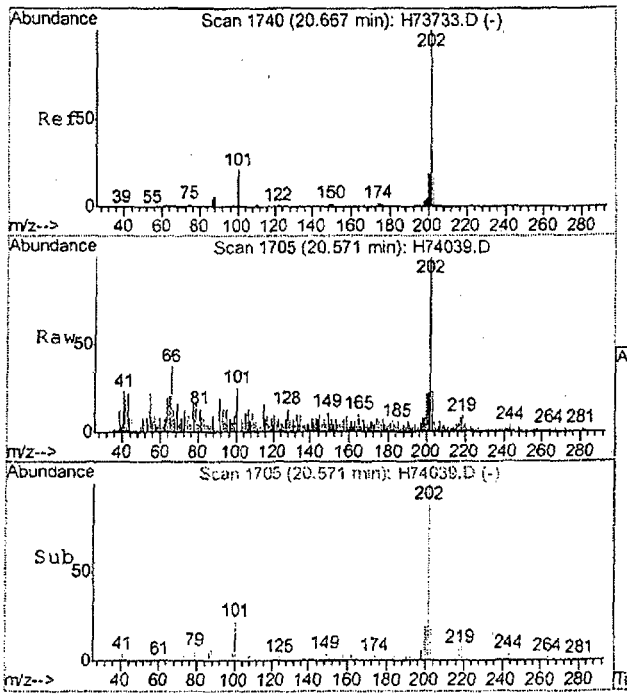


#82
Fluoranthene
Concen: 1.36 ppb
RT: 20.14 min Scan# 1667
Delta R.T. 0.02 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:202 Resp: 15769

Ion	Ratio	Lower	Upper
202	100		
101	18.2	0.0	48.1
100	17.8	0.0	44.5

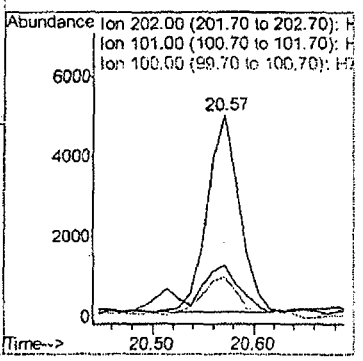




#86
Pyrene
Concen: 0.94 ppb
RT: 20.57 min Scan# 1705
Delta R.T. 0.03 min
Lab File: H74039.D
Acq: 2 Apr 2005 4:31 am

Tgt Ion:202 Resp: 10864

Ion	Ratio	Lower	Upper
202	100		
101	19.2	0.0	54.2
100	18.0	0.0	49.8



8.1.3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74040.D Vial: 29
Acq On : 2 Apr 2005 5:01 am Operator: SEANWE
Sample : N93379-4 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:16 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

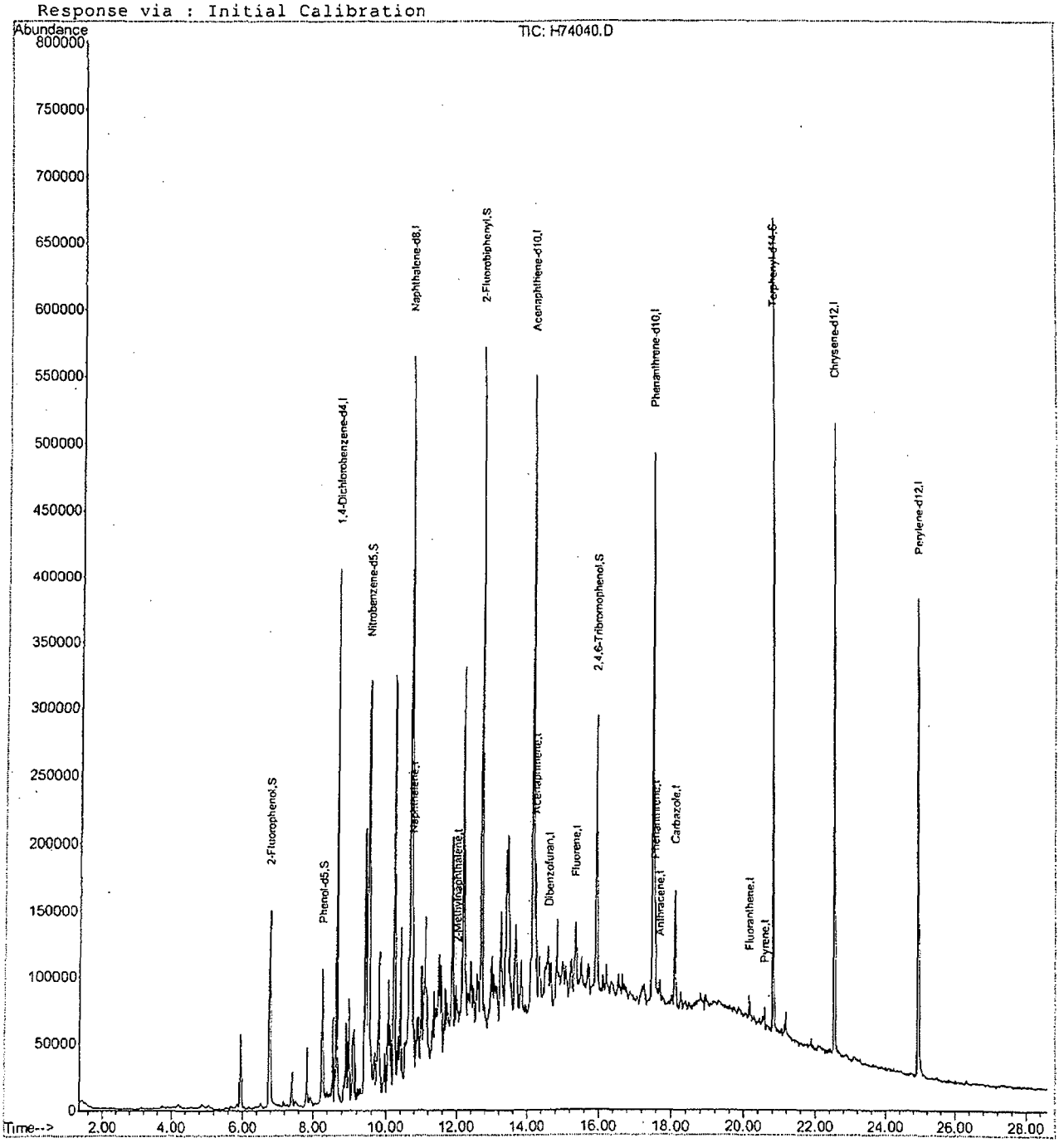
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.65	152	159765	40.00	ppb	0.02
25) Naphthalene-d8	10.68	136	611615	40.00	ppb	0.02
48) Acenaphthene-d10	14.13	164	285582	40.00	ppb	0.03
69) Phenanthrene-d10	17.50	188	397200	40.00	ppb	0.03
84) Chrysene-d12	22.53	240	304682	40.00	ppb	0.03
94) Perylene-d12	24.93	264	295846	40.00	ppb	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	6.76	112	146408	23.34	ppb	0.02
Spiked Amount 50.000			Recovery =	46.68%		
8) Phenol-d5	8.25	99	121598	14.34	ppb	0.04
Spiked Amount 50.000			Recovery =	28.68%		
26) Nitrobenzene-d5	9.51	82	260327	48.73	ppb	0.03
Spiked Amount 50.000			Recovery =	97.46%		
52) 2-Fluorobiphenyl	12.67	172	431961	41.82	ppb	0.02
Spiked Amount 50.000			Recovery =	83.64%		
74) 2,4,6-Tribromophenol	15.91	330	68452	47.96	ppb	0.03
Spiked Amount 50.000			Recovery =	95.92%		
87) Terphenyl-d14	20.83	244	349838	44.41	ppb	0.03
Spiked Amount 50.000			Recovery =	88.82%		
Target Compounds						Qvalue
39) Naphthalene	10.72	128	66667	4.60	ppb	79
45) 2-Methylnaphthalene	11.97	142	22294	2.34	ppb	94
60) Acenaphthene	14.20	153	44118	5.14	ppb	94
63) Dibenzofuran	14.57	168	33378	2.73	ppb	95
66) Fluorene	15.34	166	44414	4.68	ppb	99
78) Phenanthrene	17.56	178	65966	5.61	ppb	99
79) Anthracene	17.67	178	11733	0.97	ppb	96
80) Carbazole	18.10	167	111152	9.97	ppb	98
82) Fluoranthene	20.15	202	15291	1.36	ppb	93
86) Pyrene	20.57	202	10984	0.97	ppb	91

(#) = qualifier out of range (m) = manual integration
H74040.D MH3145.M Mon Apr 04 09:05:14 2005 MSH

Quantitation Report

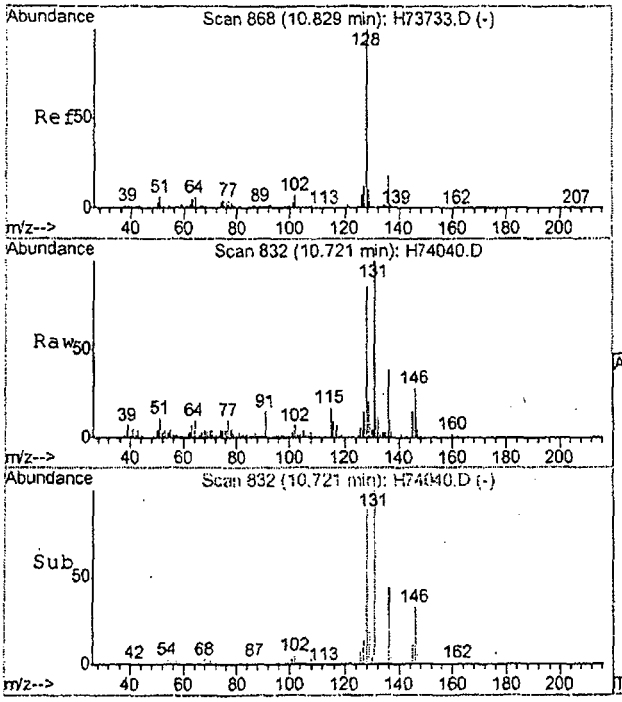
Data File : C:\HPCHEM\1\DATA\EH3145\H74040.D Vial: 29
Acq On : 2 Apr 2005 5:01 am Operator: SEANWE
Sample : N93379-4 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:16 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration



H74040.D MH3145.M Mon Apr 04 09:05:14 2005 MSH Page 2

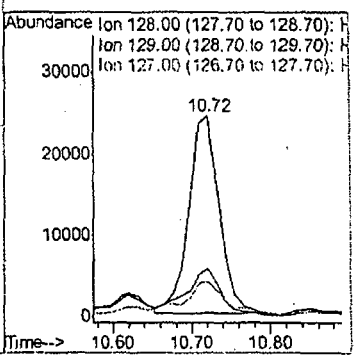
8.1.4 8

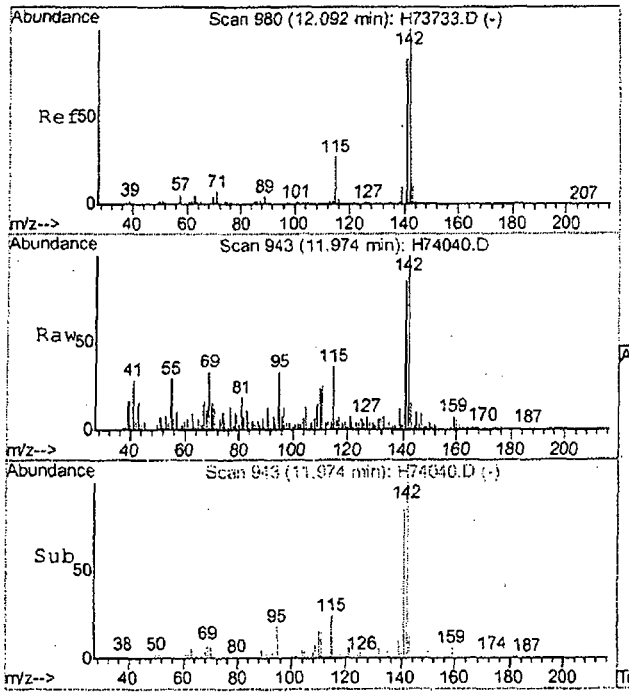


#39
Naphthalene
Concen: 4.60 ppb
RT: 10.72 min Scan# 832
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:128 Resp: 66667

Ion	Ratio	Lower	Upper
128	100		
129	22.4	0.0	40.9
127	15.6	0.0	40.9

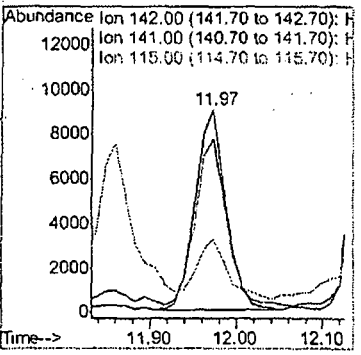




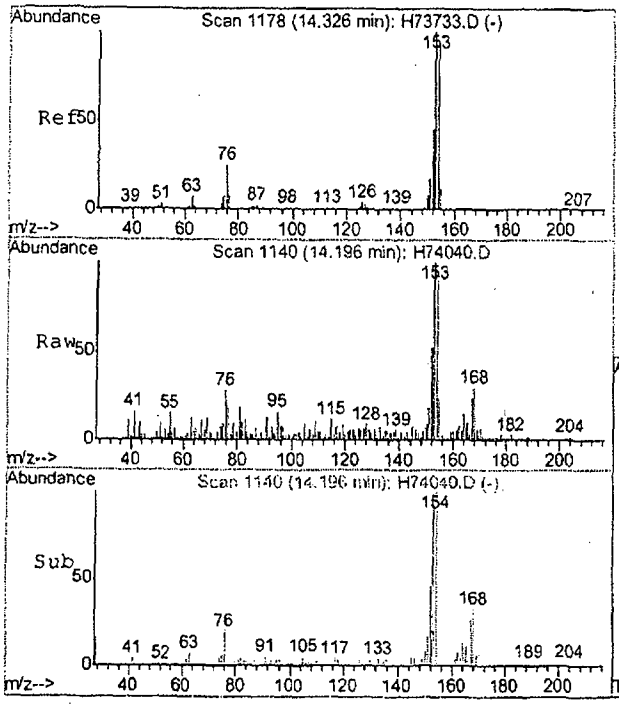
#45
2-Methylnaphthalene
Concen: 2.34 ppb
RT: 11.97 min Scan# 943
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:142 Resp: 22294

Ion	Ratio	Lower	Upper
142	100		
141	81.7	54.4	114.4
115	21.2	0.0	58.7



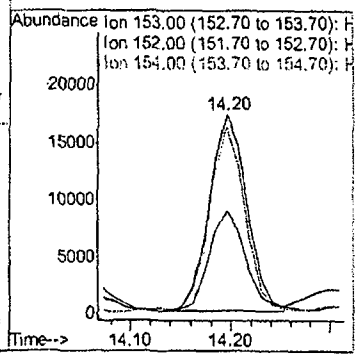
8.1.4 8

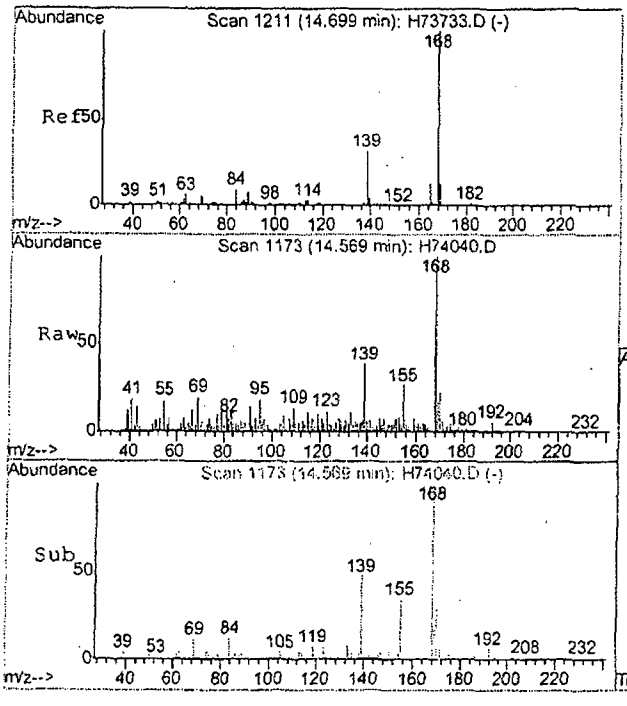


#60
Acenaphthene
Concen: 5.14 ppb
RT: 14.20 min Scan# 1140
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:153 Resp: 44118

Ion	Ratio	Lower	Upper
153	100		
152	50.6	15.6	75.6
154	93.6	59.1	119.1

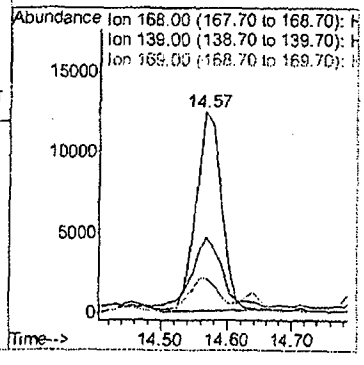




#63
Dibenzofuran
Concen: 2.73 ppb
RT: 14.57 min Scan# 1173
Delta R.T. 0.02 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

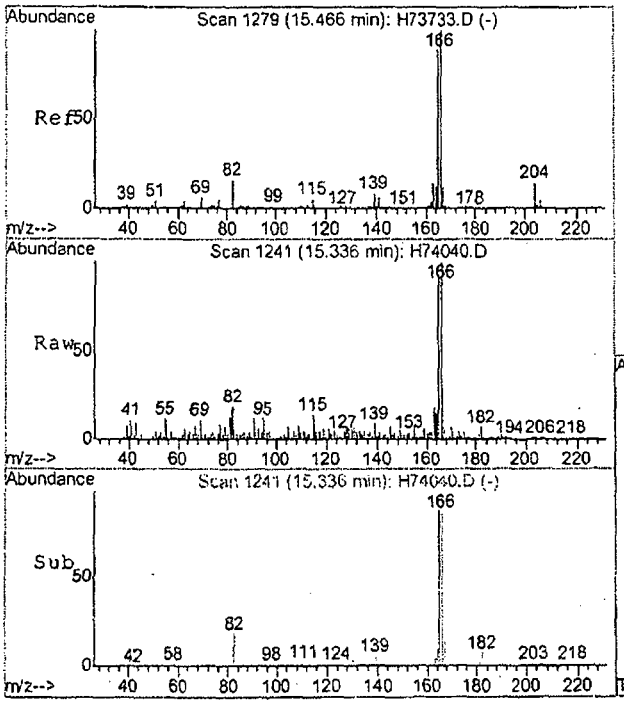
Tgt Ion:168 Resp: 33378

Ion	Ratio	Lower	Upper
168	100		
139	34.6	2.2	62.2
169	16.4	0.0	44.0



8.1.4

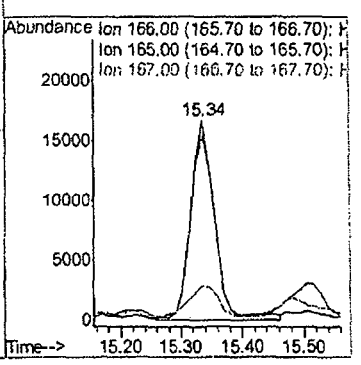
8

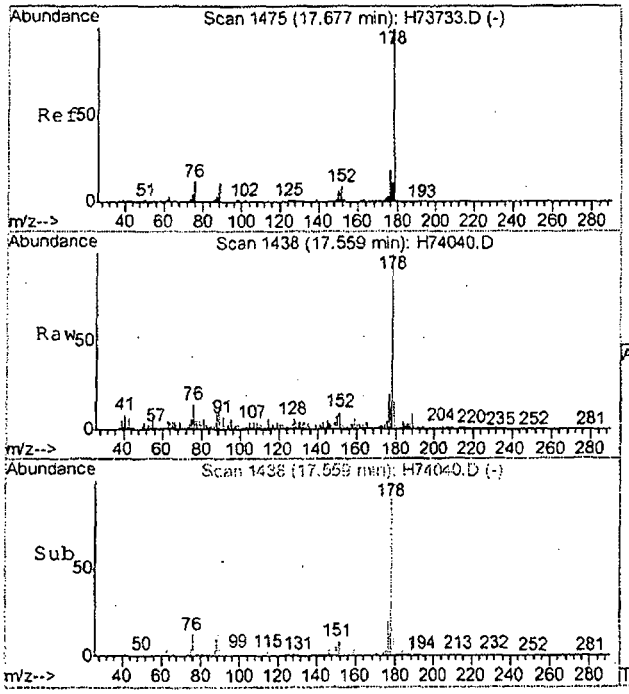


#66
Fluorene
Concen: 4.68 ppb
RT: 15.34 min Scan# 1241
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:166 Resp: 44414

Ion	Ratio	Lower	Upper
166	100		
165	89.0	59.7	119.7
167	12.4	0.0	43.2

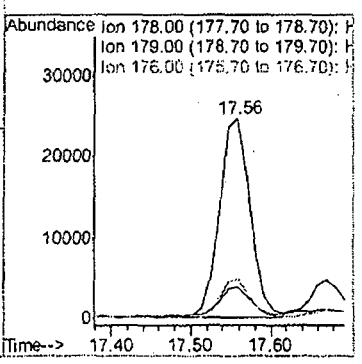




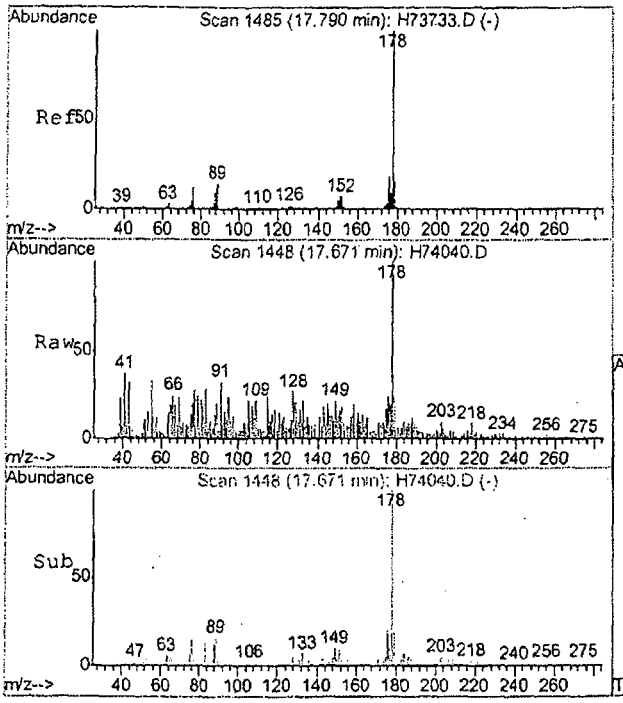
#78
Phenanthrene
Concen: 5.61 ppb
RT: 17.56 min Scan# 1438
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:178 Resp: 65966

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	44.6
176	19.2	0.0	48.6



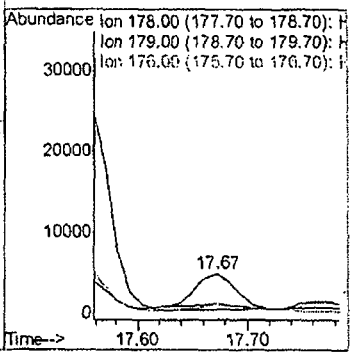
8.1.4

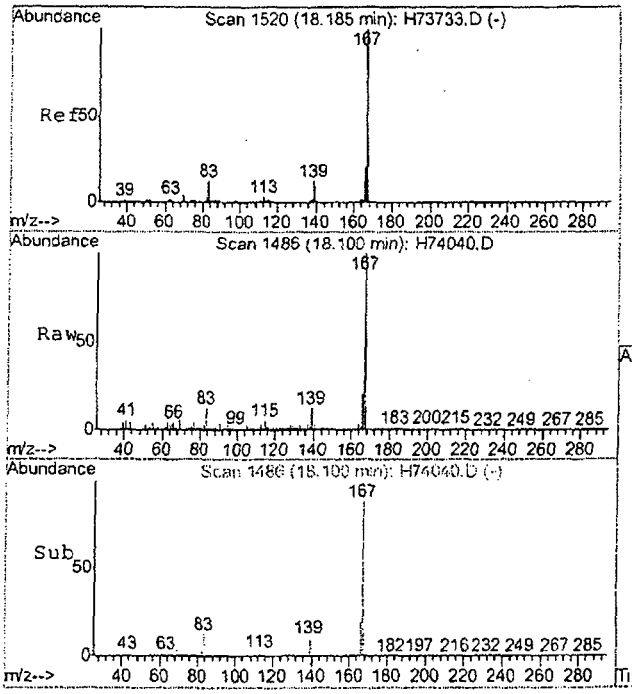


#79
Anthracene
Concen: 0.97 ppb
RT: 17.67 min Scan# 1448
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:178 Resp: 11733

Ion	Ratio	Lower	Upper
178	100		
179	13.5	0.0	45.2
176	19.7	0.0	48.2

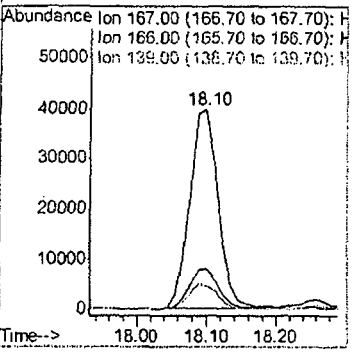




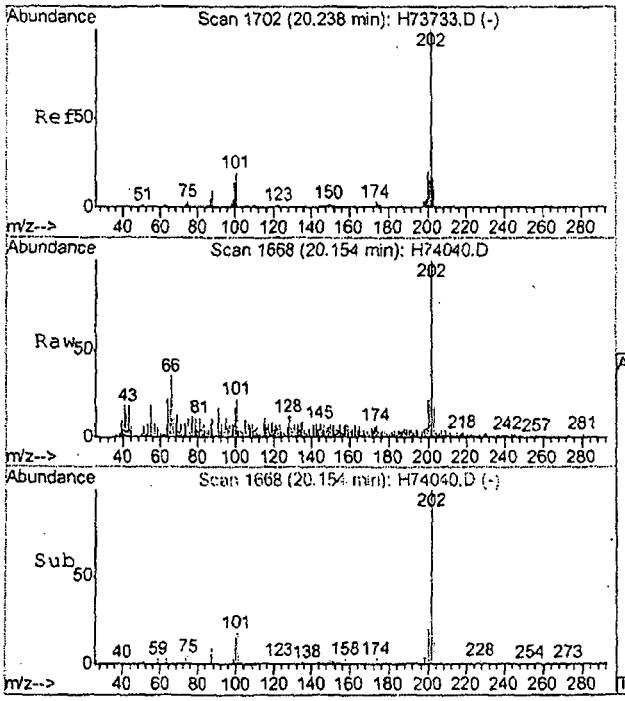
#80
Carbazole
Concen: 9.97 ppb
RT: 18.10 min Scan# 1486
Delta R.T. 0.04 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:167 Resp: 111152

Ion	Ratio	Lower	Upper
167	100		
166	19.8	0.0	50.2
139	11.0	0.0	42.1



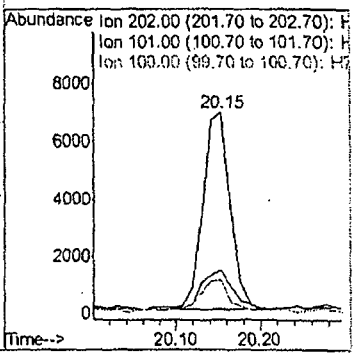
8.1.4 8

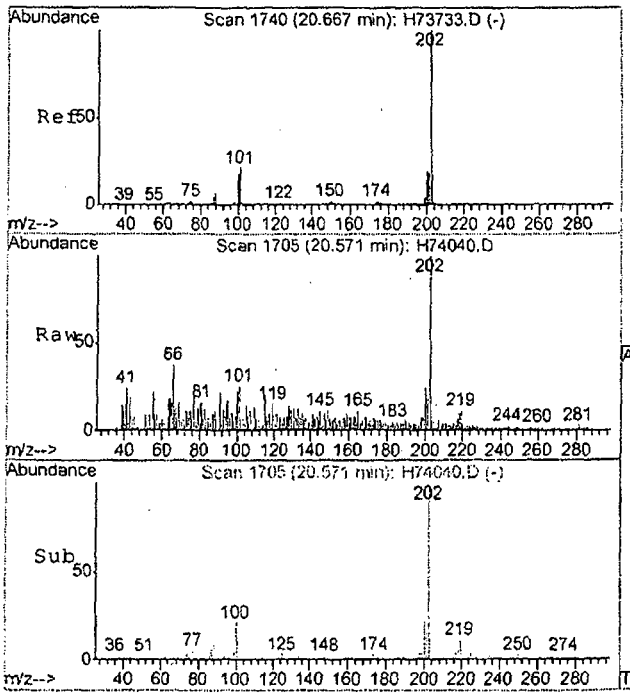


#82
Fluoranthene
Concen: 1.36 ppb
RT: 20.15 min Scan# 1668
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:202 Resp: 15291

Ion	Ratio	Lower	Upper
202	100		
101	22.7	0.0	48.1
100	15.4	0.0	44.5

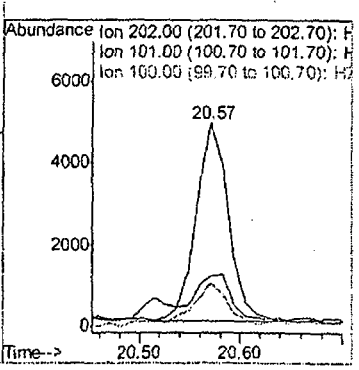




#86
Pyrene
Concen: 0.97 ppb
RT: 20.57 min Scan# 1705
Delta R.T. 0.03 min
Lab File: H74040.D
Acq: 2 Apr 2005 5:01 am

Tgt Ion:202 Resp: 10984

Ion	Ratio	Lower	Upper
202	100		
101	15.9	0.0	54.2
100	19.9	0.0	49.8



8.1.4 8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74041.D Vial: 30
Acq On : 2 Apr 2005 5:45 am Operator: SEANWE
Sample : N93379-5 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:16 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.65	152	157954	40.00	ppb	0.02
25) Naphthalene-d8	10.68	136	620822	40.00	ppb	0.02
48) Acenaphthene-d10	14.12	164	295023	40.00	ppb	0.02
69) Phenanthrene-d10	17.50	188	425212	40.00	ppb	0.02
84) Chrysene-d12	22.53	240	320843	40.00	ppb	0.02
94) Perylene-d12	24.93	264	300804	40.00	ppb	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	6.77	112	138001	22.25	ppb	0.02
Spiked Amount 50.000			Recovery =	44.50%		
8) Phenol-d5	8.26	99	117869	14.06	ppb	0.05
Spiked Amount 50.000			Recovery =	28.12%		
26) Nitrobenzene-d5	9.52	82	248562	45.84	ppb	0.03
Spiked Amount 50.000			Recovery =	91.68%		
52) 2-Fluorobiphenyl	12.68	172	440211	41.25	ppb	0.02
Spiked Amount 50.000			Recovery =	82.50%		
74) 2,4,6-Tribromophenol	15.91	330	60981	39.91	ppb	0.02
Spiked Amount 50.000			Recovery =	79.82%		
87) Terphenyl-d14	20.83	244	383264	46.20	ppb	0.02
Spiked Amount 50.000			Recovery =	92.40%		

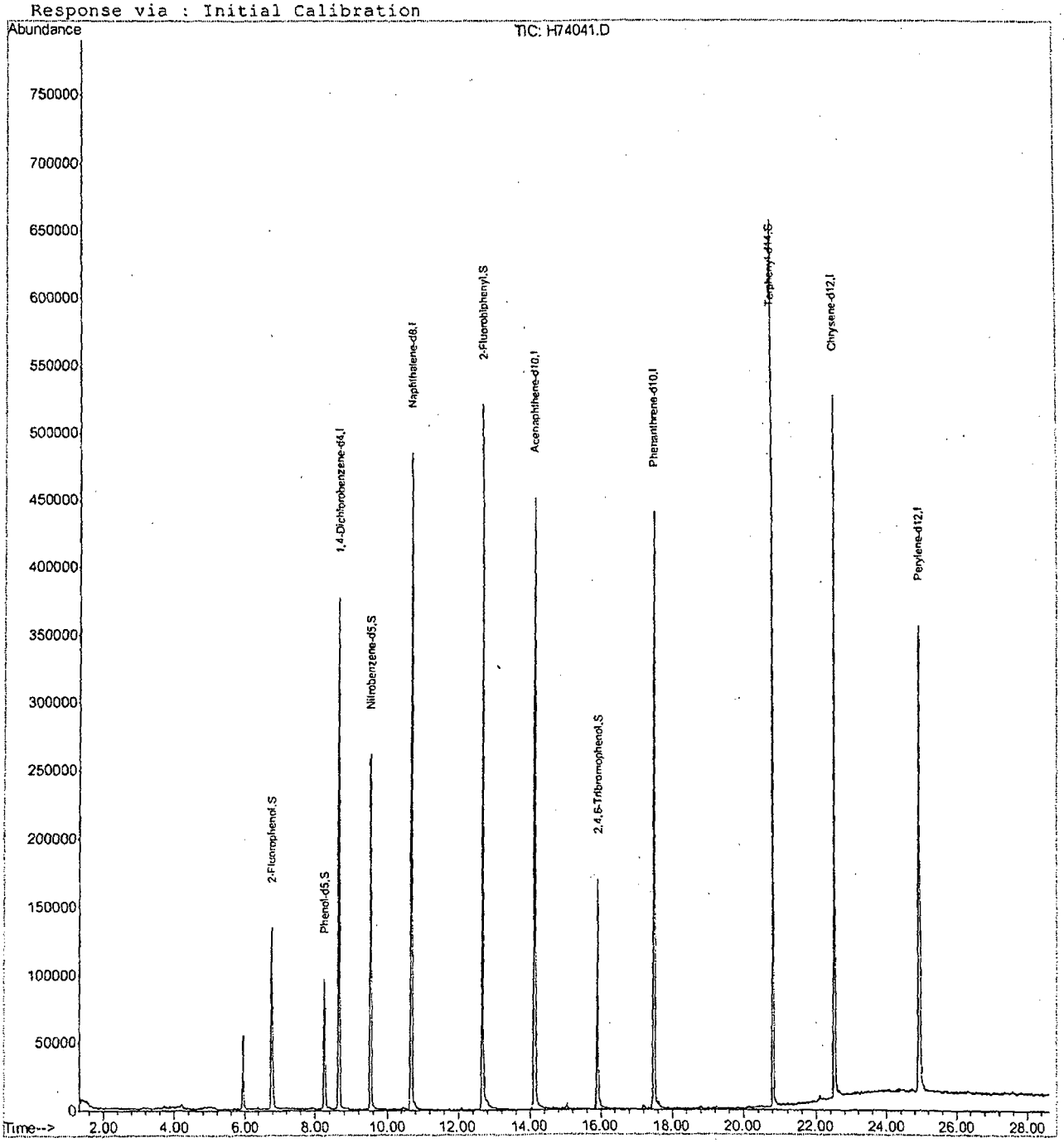
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H74041.D MH3145.M Mon Apr 04 09:05:25 2005 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH3145\H74041.D Vial: 30
Acq On : 2 Apr 2005 5:45 am Operator: SEANWE
Sample : N93379-5 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 2 11:16 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration



8.1.5 8

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\EH3145\H74032.D Vial: 21
Acq On : 1 Apr 2005 11:54 pm Operator: SEANWE
Sample : OP19692-MB2 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 10:08 2005 Quant Results File: MH3145.RES

Quant Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration
DataAcq Meth : MH3145

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.63	152	157294	40.00 ppb	0.00
25) Naphthalene-d8	10.66	136	608911	40.00 ppb	0.00
48) Acenaphthene-d10	14.10	164	294346	40.00 ppb	0.00
69) Phenanthrene-d10	17.47	188	442111	40.00 ppb	0.00
84) Chrysene-d12	22.52	240	330113	40.00 ppb	0.01
94) Perylene-d12	24.91	264	291971	40.00 ppb	0.01
System Monitoring Compounds					
5) 2-Fluorophenol	6.76	112	180182	29.17 ppb	0.01
Spiked Amount 50.000			Recovery =	58.34%	
8) Phenol-d5	8.23	99	179936	21.55 ppb	0.02
Spiked Amount 50.000			Recovery =	43.10%	
26) Nitrobenzene-d5	9.50	82	225156	42.33 ppb	0.01
Spiked Amount 50.000			Recovery =	84.66%	
52) 2-Fluorobiphenyl	12.66	172	407492	38.27 ppb	0.00
Spiked Amount 50.000			Recovery =	76.54%	
74) 2,4,6-Tribromophenol	15.88	330	57264	36.05 ppb	0.00
Spiked Amount 50.000			Recovery =	72.10%	
87) Terphenyl-d14	20.81	244	368723	43.20 ppb	0.01
Spiked Amount 50.000			Recovery =	86.40%	
Target Compounds					Qvalue

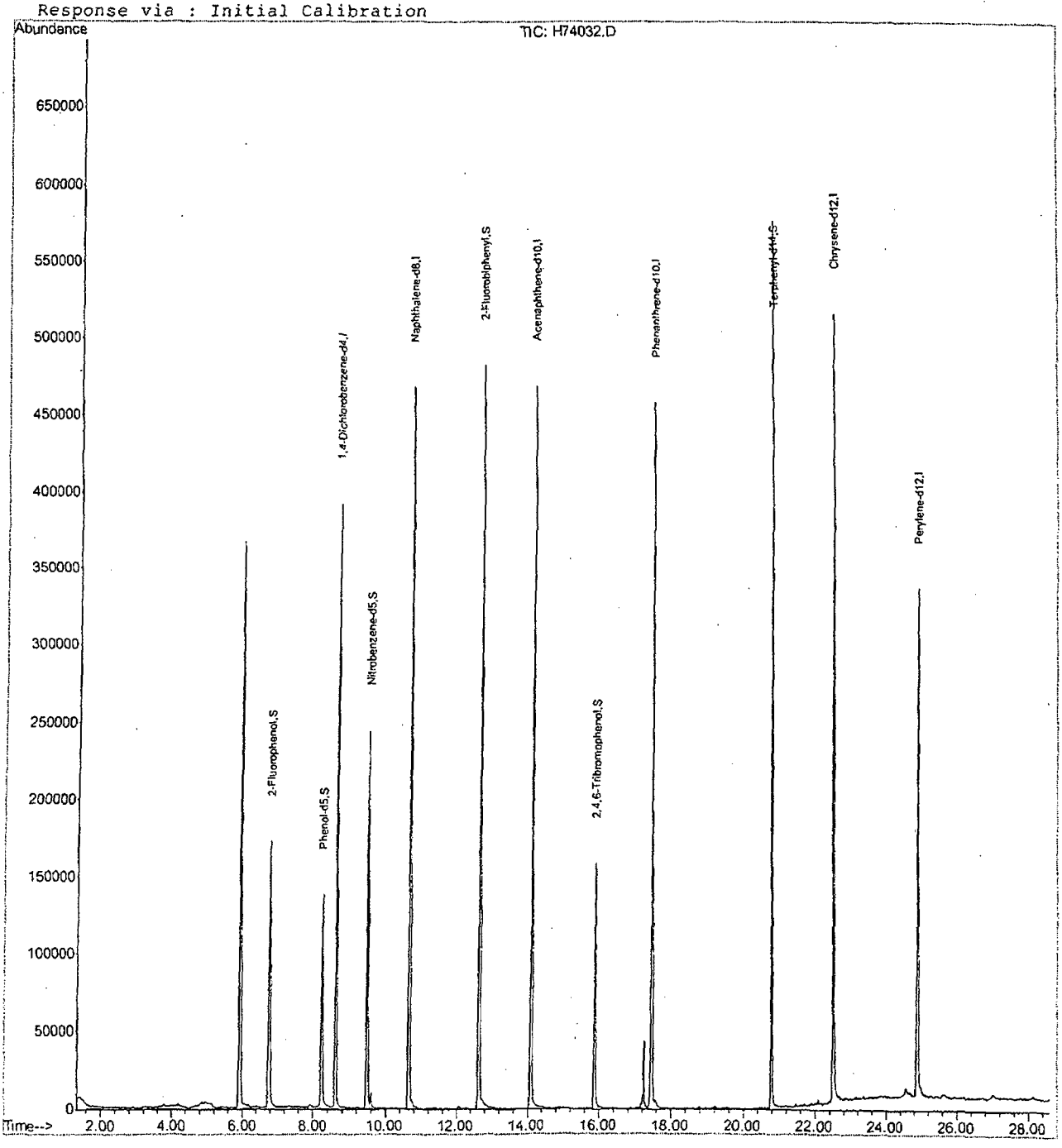
8.2.1 8

(#) = qualifier out of range (m) = manual integration
H74032.D MH3145.M Mon Apr 04 10:08:58 2005 MSH

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH3145\H74032.D Vial: 21
Acq On : 1 Apr 2005 11:54 pm Operator: SEANWE
Sample : OP19692-MB2 Inst : MSH
Misc : OP19692,EH3145,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 10:08 2005 Quant Results File: MH3145.RES

Method : C:\HPCHEM\1\METHODS\MH3145.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Apr 02 08:32:42 2005
Response via : Initial Calibration



8.2.1 8

Appendix G

Baseline Ecological Evaluation Report

Baseline Ecological Evaluation

PSEG Salem Generation Station
Hancock's Bridge, New Jersey
Incident No. 04-08-02-2350-16

PREPARED FOR

PSEG Nuclear, LLC

Kevin Costello
Environmental Scientist

Miranda Henning
Principal Scientist

Baseline Ecological Evaluation

PSEG Services Corporation Salem Generating Station Hancock's Bridge, New Jersey

Incident No. 04-08-02-2350-

Prepared for:
PSEG Services Corporation

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Our Ref.:
NP000603.0001

Date:
June 2005

Baseline Ecological Evaluation

PSEG Services Corporation
Salem Generating Station
Hancock's Bridge, New Jersey

1. Introduction

ARCADIS prepared this Baseline Ecological Evaluation (BEE) for the PSEG Nuclear, LLC Salem Generating Station (the Site) located in Hancock's Bridge, New Jersey (**Figure 1**). The BEE was conducted in accordance with the New Jersey Department of Environmental Protection's (NJDEP's) tiered approach for conducting ecological evaluations and ecological risk assessments. The BEE comprises Tier I, which is a screening process required for all NJDEP Site Remediation Program (SRP) sites. The objectives of the BEE are to ensure that all sites are assessed for potential ecological effects and that sites without ecological concern are quickly eliminated from further, more rigorous site-specific investigation. Only those sites that have the potential for adverse ecological effects are retained for further investigation and/or risk assessment at the Tier II level. It is only at the Tier II level that definitive estimates of risk and the basis for determining clean-up goals are provided.

In accordance with NJDEP guidance (Hamill and Demarest 1997) and regulations N.J.A.C. 7:26E-3.11 (Technical Requirements for Site Remediation [Technical Requirements]; N.J.A.C. 7:26E-3.11), this BEE evaluates the co-occurrence of (a) chemicals of potential ecological concern (COPECs); (b) environmentally sensitive areas; and (c) chemical migration pathways at the Site. Existing site documents and analytical data, along with the results of a site reconnaissance, are used together to document these conditions.

The Site is located on a 740-acre parcel adjacent to the Delaware River, in Hancock's Bridge, New Jersey. The Salem Generation Station consists of two nuclear generating stations. A third nuclear generation station is located to the north at the adjoining Hope Creek Generating Station (ARCADIS 2005). This BEE is specific to the area of the diesel fuel release (Incident No. 04-08-02-2350-16), which occurred just to the south of the Salem Unit 1 Fuel Handling Building. The remainder of the Site is an operating nuclear generating station and was not evaluated as a part of this BEE.

On August 2, 2004, PSEG personnel observed a diesel fuel odor in a catch basin associated with the storm water collection system just south of the Salem Unit 1 Fuel Handling Building (ARCADIS 2005). A pressure test on the underground diesel line was performed and revealed the leak was within a 300-foot section of piping. A "Tracer Tight" gas analysis was performed and the approximate location of the leak was identified. An excavation was opened around the piping to expose and repair the piping. The excavation was backfilled with clean fill material. The diesel leak area

consists of asphalt covered drive and a gravel area adjacent to and south of the Salem Unit 1 Fuel Handling Building (see Section 3.2). The leak occurred approximately 300 feet from the Delaware River.

2. Chemicals of Potential Ecological Concern

According to NJDEP guidance (Hamill and Demarest 1997) and regulations (N.J.A.C. 7:26E-3.11), COPECs should be identified based on their ability to biomagnify or bioaccumulate and/or the presence of maximum measured concentrations greater than ecotoxicologically-based benchmarks or screening values. In general, BEEs identify COPECs only for those impacted environmental media that are accessible to ecological receptors (e.g., surface soil, sediment, and surface water). Analytical data for the CEA area are available only for subsurface soil (Table 1) and groundwater (Table 2).

Currently, no impacted soils remain in the diesel leak area. The source has been temporarily mitigated, prior to implementation of the final remedy. Impacted soils were excavated from around the leak area and backfilled with clean fill (ARCADIS 2005). All historic soil sampling locations were at depths of at least 3.5 feet below ground surface (bgs) and were collected during the installation of monitoring wells AW through AZ (Figure 3). Soil sampling results are presented in Table 1, in the interest of completeness. However, all impacted soils have either been excavated or are covered by pavement or buildings, thus precluding ecological exposures to chemicals in subsurface soil. Therefore, no COPECs are identified for subsurface soil.

Groundwater monitoring activities at the Site have focused on volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCS). Table 2 summarizes the most recent analytical data for groundwater at the site, including the results of the December 2004 and March 2005 groundwater sampling events.

The Technical Requirements do not list any criteria or guidelines for use in selecting COPECs in groundwater, presumably because of the limited potential for ecological receptors to contact groundwater. It is only upon discharge of groundwater to surface water that ecological receptors could theoretically contact COPECs. Groundwater from this site discharges to the Delaware River, which is located approximately 300 feet from the diesel leak area. Given this distance and the relatively low concentrations of constituents detected in groundwater, concentrations are likely diluted to non-detectable concentrations prior to discharge to the Delaware River. Groundwater monitoring confirms that groundwater impacts are confined to a limited area of the Site. Separate-phase product has only been detected in Wells AU and AW, the two wells closest to the location of the leak. SVOCs have only been detected in Well-AV, located approximately

30 feet west-southwest of the leak area. VOCs have only been detected in Well X, located adjacent to the fuel handling building. Well X is approximately 20 feet east-southeast of the diesel leak area, more than 300 feet from the river.

To ensure the conservatism of this BEE, ARCADIS compared average and maximum downgradient concentrations in groundwater to the lower value of the chronic marine and freshwater values listed in the National Oceanographic and Atmospheric Administration's Screening Quick Reference Tables (NOAA SQuiRTs) (Table 3). New Jersey Surface Water Quality Standards are not an appropriate basis for selecting COPECs at this Site, because those chemicals detected in groundwater only have standards established to protect human health, rather than aquatic organisms. In contrast, NOAA SQuiRTs are based on protection of aquatic organisms and, therefore, serve as appropriate ecological screening criteria. Other potential sources of ecologically-based surface water screening values, including the Delaware River Basin Committee and the U.S. Environmental Protection Agency's (USEPA's) Ambient Water Quality Criteria (AWQC) also lacked values for the compounds detected at the CEA.

Because there are no data from groundwater wells between the Well-AV and the Delaware River, the use of maximum detected groundwater concentrations represents worst case conditions. Average concentrations are more likely to reflect actual concentrations as groundwater migrates to and discharges to the Delaware River. As illustrated in Table 3, with one exception, the maximum concentrations of constituents detected in groundwater are less than the NOAA SQuiRTs values. That one exception is phenathrene, which was detected in two of nine samples. The two samples were duplicate samples and thus represent a single round of sampling at a single well. The average concentration of phenanthrene was below the NOAA SQuiRT value. Thus, following dilution and attention as the groundwater migrates to the river, as well as mixing within the river, exposures of aquatic life within the river to phenanthrene are expected to be well below the screening level.

In addition to considering concentrations relative to screening criteria, it is necessary to evaluate the bioaccumulative/biomagnifying potential of detected constituents. Based on NJDEP's guidance regarding biomagnifying compounds in sediment (NJDEP, 2005d) and the logarithms of the octanol water partitioning coefficients (log Kow values), dibenzofuran is the only detected compound in groundwater with the potential to bioaccumulate. Dibenzofuran was detected as an estimated concentration below the detection limit (J-qualified) in three out of nine samples. Given its low prevalence, low detected concentrations, and the likelihood of dilution and attenuation as it travels from groundwater to the Delaware River, it does not warrant inclusion as a COPEC.

No samples have currently been taken from wells AU and AW due to the presence of separate phase diesel in the well. This product is being actively remediated by a Spill Buster® unit which removes the separate phase diesel on a periodic schedule. Proof that this technique is working is illustrated by the lack of BTEX detected above the reporting limit in surrounding wells (Table 1). Further evidence to support this is that no TPH was detected in soil removed during well instillation (Table 2). The evidence shown above of and the continued active remediation of free product, no exposure pathways are open.

Based on the above information, no COPECs are selected for groundwater. As previously noted, the absence of accessible surface soil on the site precludes identification of any COPECs in soil. Thus, there are no COPECs in any media at this Site.

3. Environmentally Sensitive Area

The second element of the BEE is the documentation of any environmentally sensitive areas present on-site or immediately adjacent to the Site. Environmentally sensitive areas, as defined in N.J.A.C. 7:1E-4.10, include:

- River channels;
- Lakes and ponds;
- Reservoirs;
- Bays and estuaries;
- Cranberry bogs;
- Coastal wetlands;
- Interior wetlands;
- Beaches;
- Deciduous forest;
- Coniferous forest;
- Mixed forest; and
- Brush land and scrubland.

Based on a site reconnaissance conducted on April 26, 2005, information provided in technical reports on the Site, and a search of the NJDEP Geographic Information System (GIS) database, this section describes ecological habitat types and potential environmentally sensitive areas at the Site and within a one-half mile radius of the Site.

3.1 Site Setting and Land Use

A site location map is shown on **Figure 1**. As previously noted, the Site is located on a 740-acre parcel adjacent to a brackish reach of the Delaware River. The Site is bounded to the south and west by the Delaware River, to the north by Hope Creek Generation Station, and to the east by undeveloped land. Land surrounding the site is zoned for industrial, residential, and agricultural uses (ARCADIS 2005). However,

there are no homes located within several miles of the station. As illustrated on the GIS map provided in **Attachment A**, no natural heritage priority sites are located within one-half mile of the site.

3.2 Characterization of Environmentally Sensitive Area

Environmentally sensitive areas located within and adjacent to the Site were characterized during a site reconnaissance conducted on April 26, 2005. The Site reconnaissance was conducted by ARCADIS scientists familiar with the Site. No environmentally sensitive areas were identified within the diesel leak area. The cover in the immediate vicinity of the leak area is limited to dirt and gravel, with various sparsely growing grasses, approximately one to two inches in height (**Attachment B**, Photographs 1, 2 and 3). Cover in the surrounding area is comprised of asphalt, gravel, concrete and buildings (**Attachment B**, Photographs 4-10).

Environmentally sensitive areas located near the diesel fuel leak area include the Delaware River, the associated riparian buffer along the river, and extensive wetlands. The Delaware River basin and its tributaries drain an area of approximately 1,341 square miles (NJDEP 2005a, 2005b, 2005c). The Salem Generation Station is located on a reach of the river known as the Central Delaware River. The Central Delaware River and its tributaries drain an area of approximately 274 square miles (NJDEP 2005b). From the Site, the Delaware River flows into the Delaware Bay and the Atlantic Ocean, approximately 50 miles away.

The Delaware River and its tributaries provides habitat for numerous aquatic and terrestrial species, including aquatic birds [e.g., ospreys (*Pandion haliaetus*), great egrets (*Ardea alba*) mallards (*Anas platyrhynchos*)] and reptiles and amphibians [e.g., Eastern painted turtle (*Chrysemys picta*)]. Bird species observed during the Site reconnaissance included numerous bank swallows, a gull, an American robin, a common crow, and a great egret. In addition, the river provides habitat for many fish species, including striped bass (*Morone saxatulus),* bluefish (*Pomatomus salatrix),* and Atlantic shad (*Alosa sapidissima.*).

The majority of land immediately adjacent to the river in the vicinity of the Site is classified as forest by NJDEP GIS. However, the area is in fact dominated by wetlands, with an estimated canopy cover of less then five percent at the time of the April 2005 site visit. The sandy soil is approximately 100 percent vegetated, with various native and exotic grasses. Arrow arum (*Peltandra virginica*), golden ragwort (*Senecio aureus*) and phragmites (*Phragmites austalis [communi])* are abundant and

stabilize the banks. Limited areas within one-half mile of the Site are also characterized as mowed lawn and service roads.

3.3 NJDEP Geographic Information System Search Results

As part of the evaluation of the presence of environmentally sensitive area, the NJDEP GIS database was searched. The following data layers were downloaded for land within approximately one-half mile of the Site:

- Coastal centers
- Hydrography
- Natural Heritage priority sites
- Lakes
- 1995/97 Land use/landcover
- Linear wetlands
- Streams
- Wetlands

The GIS map is presented in **Attachment A**. Data layers that contain relevant information on the area searched include: the 1995/97 land use/land planning data layer, the streams data layer, and the wetlands area with Cowardin classifications data layer. Other features listed in the NJDEP GIS database, such as Natural Heritage priority sites, are not located within the area searched.

4. Migration Pathways to Environmentally Sensitive Areas

The third element of the BEE is an evaluation of the potential for COPECs to migrate from the source to receptors that may be present in environmentally sensitive areas identified above. In order for a pathway to be complete, the following five components must be present: (a) COPECs in environmental media; (b) a source of release of COPECs; (c) a migration pathway that allows the COPEC to move from its source to a point of possible contact; (d) an exposure point, where the receptor may come into contact with the COPEC; and (e) an exposure pathway, through which the receptor receives an absorbed dose of the COPEC. If one of these five components is not present, exposure of the receptor to COPECs is not physically possible.

Because COPECs were not identified for the diesel leak area, no pathways are complete, and exposure of ecological receptors to site-related COPECs is not possible. No COPECs were identified in soil, as all constituents have either been excavated or are covered by pavement or buildings. Although groundwater from the diesel leak area discharges to the Delaware River, there are no COPECs for groundwater and the groundwater-to-surface water migration pathway is incomplete.

The finding of no complete pathways is supported by the lack of evidence of potential effects in environmentally sensitive areas. For example, none of the following were observed during the site inspection:

- Stressed or dead vegetation;
- Discolored soil, sediment, or water;
- Absence of biota in a specified area of the system as compared to other similar area of the same system; or
- Presence of a seep or discharge.

5. Summary and Conclusions

In accordance with NJDEP guidance (Hamill and Demarest 1997) and regulations (N.J.A.C. 7:26E-3.11 of the NJDEP Technical Requirements), this BEE evaluates the co-occurrence of (a) COPECs; (b) environmentally sensitive areas; and (c) chemical migration pathways.

COPECs were not identified in either soil or groundwater at the diesel fuel leak area. Although SVOCs and VOCs have been detected in groundwater, concentrations in groundwater are below appropriate ecologically-based screening criteria for surface water. As a result of dilution and attenuation during transport, the concentrations that potentially discharge to surface water will be even lower. Thus, aquatic organisms are not expected to be exposed to harmful chemical concentrations. COPECs were not selected for soil because impacted soils either have been excavated or are covered by pavement or buildings. Therefore, no contact with ecological receptors is possible. Although the Site is largely surrounded by the Delaware River and its associated riparian corridor and wetlands, the NJDEP GIS database did not identify any Natural Heritage priority sites within one half mile of the Site. Because no COPECs are present at the CEA area, no further ecological evaluation is warranted.

6. References

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New Jersey Department of Environmental Protection (NJDEP). 2005b. Watershed Management Area 11: Central Delaware. May. (http://www.state.nj.us/dep/watershedmgt/wma11_info.htm)

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National Oceanic and Atmospheric Administration (NOAA). 1999. Screening Quick Reference Table. September.

RAIS. 2005. Risk Assessment Information System. Oak Ridge National Laboratory, Toxicology and Risk Analysis Section, Oak Ridge, Tennessee.

The Delaware River Basin Collaborative Environmental Monitoring and Research Initiative (CEMRI). 2005. (http://www.fs.fed.us/ne/global/research/drb/basin.html)

Tables

Table 1. Summary of Groundwater Sampling Results
PSE&G Salem, Artificial Island, Salem, New Jersey.

Sample ID	Well X		Well AX*	Well AV		Well AVD**	Well AY		Well AZ	
	12/13/04	3/15/05	12/13/04	12/13/04	3/15/05	3/15/05	12/13/04	3/15/05	12/10/04	3/15/05
Semivolatile Organic Compounds										
2-Chlorophenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
4-Chloro-3-methyl phenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2,4-Dichlorophenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2,4-Dimethylphenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2,4-Dinitrophenol	<20	<20	<20	<22	<20	<20	<21	<20	<20	NA
4,6-Dinitro-o-cresol	<20	<20	<20	<22	<20	<20	<21	<20	<20	NA
2-Methylphenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
3&4-Methylphenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2-Nitrophenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
4-Nitrophenol	<20	<20	<20	<22	<20	<20	<21	<20	<20	NA
Pentachlorophenol	<20	<20	<20	<22	<20	<20	<21	<20	<20	NA
Phenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2,4,5-Trichlorophenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
2,4,6-Trichlorophenol	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Acenaphthene	<2	<2	<2	**0.64 J**	**5.0**	**5.1**	<2.1	<2	<2	NA
Acenaphthylene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Anthracene	<2	<2	<2	<2.2	**0.95 J**	**0.97 J**	<2.1	<2	<2	NA
Benzo(a)anthracene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Benzo(a)pyrene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Benzo(b)fluoranthene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Benzo(g,h,i)perylene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Benzo(k)fluoranthene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
4-Bromophenyl phenyl ether	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Butyl benzyl phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
2-Chloronaphthalene	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
4-Chloroaniline	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Carbazole	<2	<2	<2	<2.2	**9.9**	**10**	<2.1	<2	<2	NA
Chrysene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
bis-(2-Chloroethoxy)methane	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
bis(2-Chloroethyl)ether	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
bis(2-Chloroisopropyl)ether	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
4-Chlorophenyl phenyl ether	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
1,2-Dichlorobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
1,3-Dichlorobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
1,4-Dichlorobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
2,4-Dinitrotoluene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
2,6-Dinitrotoluene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
3,3'-Dichlorobenzidine	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Dibenzo(a,h)anthracene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Dibenzofuran	<5	<5	<5	**0.71 J**	**2.7 J**	**2.7 J**	<5.3	<5	<5	NA
Di-n-butyl phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Di-n-octyl phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Diethyl phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Dimethyl phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
bis(2-Ethylhexyl)phthalate	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Fluoranthene	<2	<2	<2	**1 J**	**1.4 J**	**1.4 J**	<2.1	<2	<2	NA
Fluorene	<2	<2	<2	**1.4 J**	**4.4**	**4.7**	<2.1	<2	<2	NA
Hexachlorobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Hexaclorobutadiene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Hexachlorocyclopentadiene	<20	<20	<20	<22	<20	<20	<21	<20	<20	NA
Hexachloroethane	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Indeno(1,2,3-cd)pyrene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
Isophorone	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
2-Methylnaphthalene	<2	<2	<2	**1.8 J**	**2.0**	**2.3**	<2.1	<2	<2	NA
2-Nitroaniline	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
3-Nitroaniline	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
4-Nitroaniline	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Naphthalene	<2	<2	<2	**3.9**	**4.3**	**4.6**	<2.1	<2	<2	NA
Nitrobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
N-Nitroso-di-n-propylamine	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA
N-Nitrosodiphenylamine	<5	<5	<5	<5.6	<5	<5	<5.3	<5	<5	NA
Phenanthrene	<2	<2	<2	<2.2	**5.3**	**5.6**	<2.1	<2	<2	NA
Pyrene	<2	<2	<2	**0.96 J**	**0.94 J**	**0.97 J**	<2.1	<2	<2	NA
1,2,4-Trichlorobenzene	<2	<2	<2	<2.2	<2	<2	<2.1	<2	<2	NA

Table 1. Summary of Groundwater Sampling Results
PSE&G Salem, Artificial Island, Salem, New Jersey.

Sample ID	Well X		Well AX*	Well AV		Well AVD**	Well AY		Well AZ	
	12/13/04	3/15/05	12/13/04	12/13/04	3/15/05	3/15/05	12/13/04	3/15/05	12/10/04	3/15/05
Volatile Organic Compounds										
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Bromoform	<4	<4	<4	<4	<4	<4	<4	<4	<4	NA
Bromomethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA
2-Butanone (MEK)	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Carbon Disulfide	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA
Carbon Tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Ethylbenzene	<1	**0.83 J**	<1	<1	<1	<1	<1	<1	<1	NA
2-Hexanone	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
4-Methly-2-pentanone (MIBK)	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
Methylene Chloride	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA
Styrene	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
1,1,2,2-Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Tetrachloroethene	**0.87 J**	<1	<1	<1	<1	<1	<1	<1	<1	NA
Toulene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA
Xylenes (total)	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA

Notes:

- ug/L Micrograms per liter (equivalent to parts per billion)
- **2.3** Bold value indicates compound is above the method detection limit.
- < The compound was not detected at the indicated concentration.
- J Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
- NA Not analyzed
- * Well AX is a blind duplicate of Well X
- ** Well AVD is a blind duplicate of Well AV

Table 2. Summary of Soil Sampling Results
PSE&G Salem, Artificial Island, Salem, New Jersey.

Sample ID Monitoring Well Location Sample Date	D-2 (3.5-4.0) Well AW 11/8/04	D-3 (3.5-4.0) Well AV 11/8/04	D-4 (3.5-4.0) Well AY 11/8/04	D-4 (9.0-9.5) Well AY 11/8/04	D-5 (3.5-4.0) Well AZ 11/9/04	D-50 (3.5-4.0) Well AZ 11/9/04
Analyte (mg/kg)						
Petroleum Hydrocarbons	<28	<29	<32	<29	<27	<26
Benzene	<1	<1		<1	<1	<1
Bromodichloromethane	<1	<1		<1	<1	<1
Bromoform	<4	<4		<4	<4	<4
Bromomethane	<2	<2		<2	<2	<2
2-Butanone (MEK)	<10	<10		<10	<10	<10
Carbon Disulfide	<2	<2		<2	<2	<2
Carbon Tetrachloride	<1	<1		<1	<1	<1
Chlorobenzene	<1	<1		<1	<1	<1
Chloroethane	<1	<1		<1	<1	<1
Chloroform	<1	<1		<1	<1	<1
Chloromethane	<1	<1		<1	<1	<1
Dibromochloromethane	<1	<1		<1	<1	<1
1,1-Dichloroethane	<1	<1		<1	<1	<1
1,2-Dichloroethane	<1	<1		<1	<1	<1
1,1-Dichloroethene	<1	<1		<1	<1	<1
cis-1,2-Dichloroethene	<1	<1		<1	<1	<1
trans-1,2-Dichloroethene	<1	<1		<1	<1	<1
1,2-Dichloropropane	<1	<1		<1	<1	<1
cis-1,3-Dichloropropene	<1	<1		<1	<1	<1
trans-1,3-Dichloropropene	<1	<1		<1	<1	<1
Ethylbenzene	<1	<1		<1	<1	<1
2-Hexanone	<5	<5		<5	<5	<5
4-Methly-2-pentanone (MIBK)	<5	<5		<5	<5	<5
Methylene Chloride	<2	<2		<2	<2	<2
Styrene	<5	<5		<5	<5	<5
1,1,2,2-Tetrachloroethene	<1	<1		<1	<1	<1
Tetrachloroethene	**0.87 J**	<1		<1	<1	<1
Toulene	<1	<1		<1	<1	<1
1,1,1-Trichloroethane	<1	<1		<1	<1	<1
1,1,2-Trichloroethane	<1	<1		<1	<1	<1
Trichloroethene	<1	<1		<1	<1	<1
Vinyl Chloride	<1	<1		<1	<1	<1
Xylenes (total)	<1	<1		<1	<1	<1
Tentatively Identified Compounds (total)				4.2 J	27.1	
Acetone				**4.2 JN**		
Chlorotrifluoroethene					**20 JN**	
1,2-Dichloro-1,2,2-trifluoroethane					**7.1 JN**	
Freon 113						

Notes:

0.87	Bold value indicates compound is above the NJGWQC standard
mg/kg	Milligrams per kilograms (equivalent to parts per million)
<	The compound was not detected at the indicated concentration.
J	Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.
N	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the indication is based on a library search
NA	Not analyzed

Table 3. Comparison of Estimated Groundwater Concentrations to Surface Water Criteria
PSE&G Salem, Artificial Island, Salem, New Jersey.

Constituents Detected in Groundwater	Maximum Concentration in Downgradient Wells (a) (ug/L)	Avarage Concentration in Downgradient Wells (a) (ug/L)	Log Kow (c)	NOAA SQuiRTs(d) (ug/L)
Acenaphthene	5.1	1.87	3.92	520 [e]
Anthracene	0.97	1.01	4.45	300 [f]
Carbazole	10	3.01	3.72	NA
Dibenzofuran	2.7	2.36	4.12	NA
Fluoranthene	1.4	1.09	5.15	16 [g]
Fluorene	4.7	1.84	4.18	300 [f]
2-Methylnaphthalene	2.3	1.35	3.3	300 [f]
Naphthalene	4.6	2.09	3.86	620 [e]
Phenanthrene	5.6	2.12	4.46	4.6 [g]
Pyrene	0.97	0.99	4.88	300 [f]
Ethylbenzene	0.83	0.54	3.15	430 [f]
Tetrachloroethene	0.87	0.54	3.4	450 [g]

Notes:

ug/L = Micrograms per liter (equivalent to parts per billion)

FCV = Final chronic value

MIDEQ = Michigan Department of Environmental Quality

NA Not Available

(a) Includes samples collected from Well-X, Well-AV, Well-AY and Well-AZ.

(b) Includes samples collected from Well-X, Well-AV, Well-AY and Well-AZ. Non-detects are assumed to be one half of the detection limit

(c) Risk Assessment Information System (RAIS), 2004.

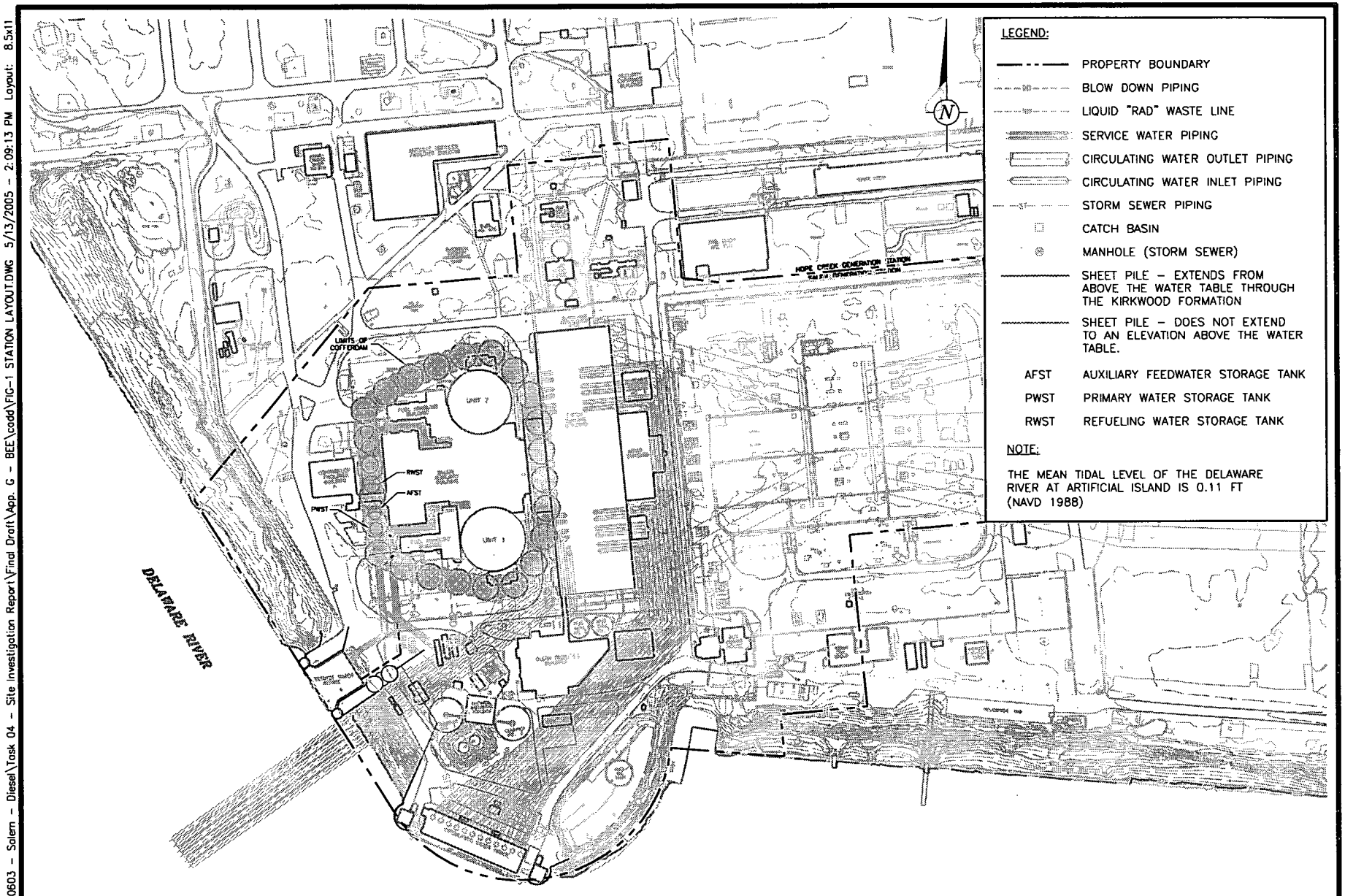
(d) The values used from the NOAA SQuiRTs are as followed: The lower value between the chronic freshwater and chronic marine is used. If only one chronic value is listed, then it is used. If no chronic values are listed then the lower values between the acute freshwater and the acute marine criteria is used.

(e) Value used is NOAA SQuiRTs freshwater chronic criteria

(f) Value used is NOAA SQuiRTs marine acute criteria

(g) Value used is NOAA SQuiRTs marine chronic criteria

Figures



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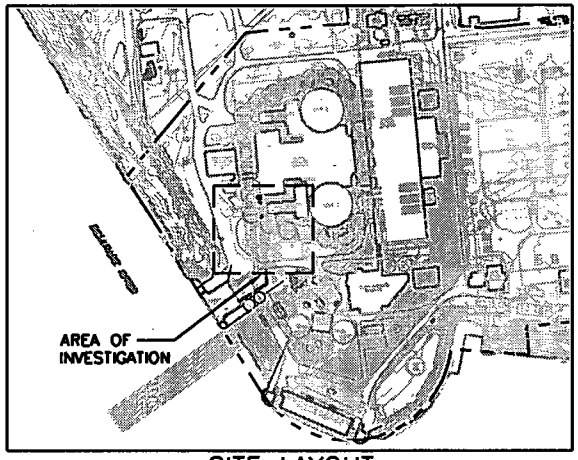
ARCADIS

DRAWN M. WASILEWSKI	DATE 5/12/05	PROJECT MANAGER P. MILIONIS	DEPARTMENT MANAGER A. ROBINSON
		LEAD DESIGN PROF. S. POTTER	CHECKED B. PIERCE

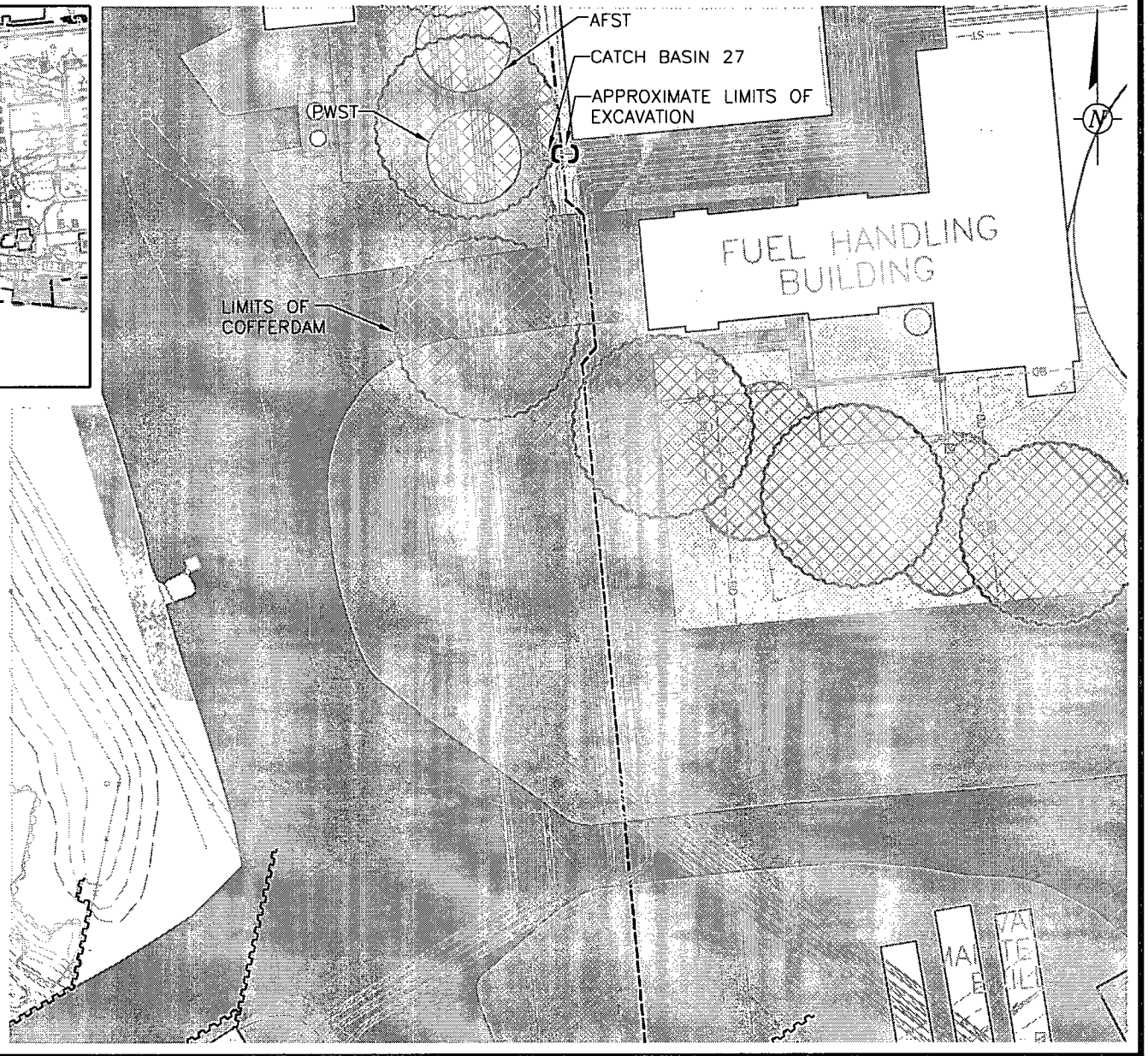
STATION LAYOUT

PSEG NUCLEAR, LLC
SALEM GENERATING STATION
HANCOCK'S BRIDGE, NEW JERSEY

PROJECT NUMBER	DRAWING NUMBER
NP000603.0001	1



SITE LAYOUT
SCALE: 1"=600'



LEGEND:

- WETLAND
- GRAVEL AND STONE
- CONCRETE
- ASPHALT
- SANDY AREA
- DIESEL FUEL UNDERGROUND PIPING
- PROPERTY BOUNDARY
- BLOW DOWN PIPING
- LIQUID "RAD" WASTE LINE
- CHAINLINK FENCE
- SERVICE WATER PIPING
- CIRCULATING WATER OUTLET PIPING
- CIRCULATING WATER INLET PIPING
- STORM SEWER PIPING
- CATCH BASIN
- MANHOLE (STORM SEWER)
- SHEET PILE – EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- SHEET PILE – DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.

0 50
SCALE: 1"=50'

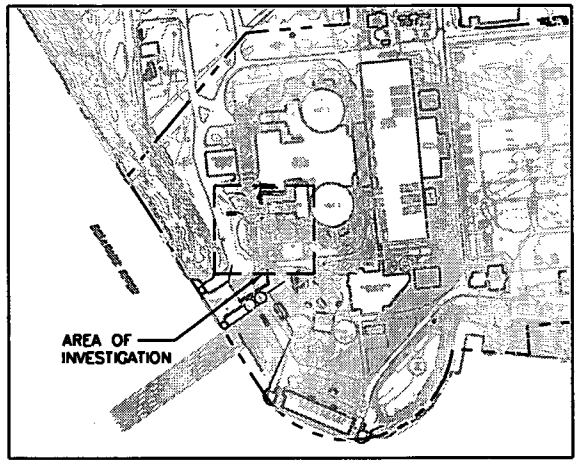
ARCADIS

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
M. WASILEWSKI	5/12/05	P. MILIONIS	A. ROBINSON
		LEAD DESIGN PROF. S. POTTER	CHECKED B. PIERCE
		PROJECT NUMBER	DRAWING NUMBER
		NP000603.0001	2

SITE MAP

PSEG NUCLEAR, LLC
SALEM GENERATING STATION
HANCOCK'S BRIDGE, NEW JERSEY

G:\APROJECT\PSE&G\NP000603 - Salem - Diesel\Task 04 - Site Investigation Report\Final Draft\App. G - BEE\cadd\FIG-2 SITE MAP-2.DWG 5/13/2005 - 2:10:52 PM Layout: 8.5x11



SITE LAYOUT
SCALE: 1"=600'

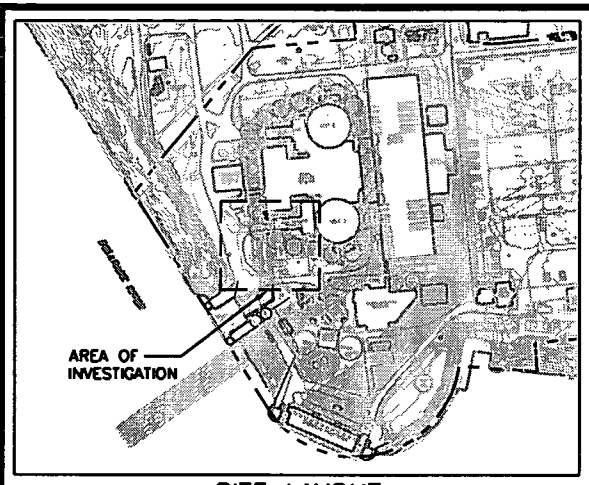
LEGEND:

- WELL-AZ ⊙ MONITORING WELL
- DIESEL FUEL UNDERGROUND PIPING
- PROPERTY BOUNDARY
- BLOW DOWN PIPING
- LIQUID "RAD" WASTE LINE
- CHAINLINK FENCE
- SERVICE WATER PIPING
- CIRCULATING WATER OUTLET PIPING
- CIRCULATING WATER INLET PIPING
- STORM SEWER PIPING
- CATCH BASIN
- MANHOLE (STORM SEWER)
- SHEET PILE – EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- SHEET PILE – DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.

0 50
SCALE: 1"=50'

ARCADIS

DRAWN: M. WASILEWSKI	DATE: 5/12/05	PROJECT MANAGER: P. MILIONIS	DEPARTMENT MANAGER: A. ROBINSON
MONITORING WELL LOCATIONS		LEAD DESIGN PROF.: S. POTTER	CHECKED: B. PIERCE
PSEG NUCLEAR, LLC SALEM GENERATING STATION HANCOCK'S BRIDGE, NEW JERSEY		PROJECT NUMBER: NP000603.0001	DRAWING NUMBER: 3



SITE LAYOUT
SCALE: 1"=600'

LEGEND:

- PHOTOGRAPH NUMBER AND DIRECTION
- WELL-AZ — MONITORING WELL
- DIESEL FUEL UNDERGROUND PIPING
- PROPERTY BOUNDARY
- BLOW DOWN PIPING
- LIQUID "RAD" WASTE LINE
- CHAINLINK FENCE
- SERVICE WATER PIPING
- CIRCULATING WATER OUTLET PIPING
- CIRCULATING WATER INLET PIPING
- STORM SEWER PIPING
- CATCH BASIN
- MANHOLE (STORM SEWER)
- SHEET PILE – EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- SHEET PILE – DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.

0 50
SCALE: 1"=50'

ARCADIS

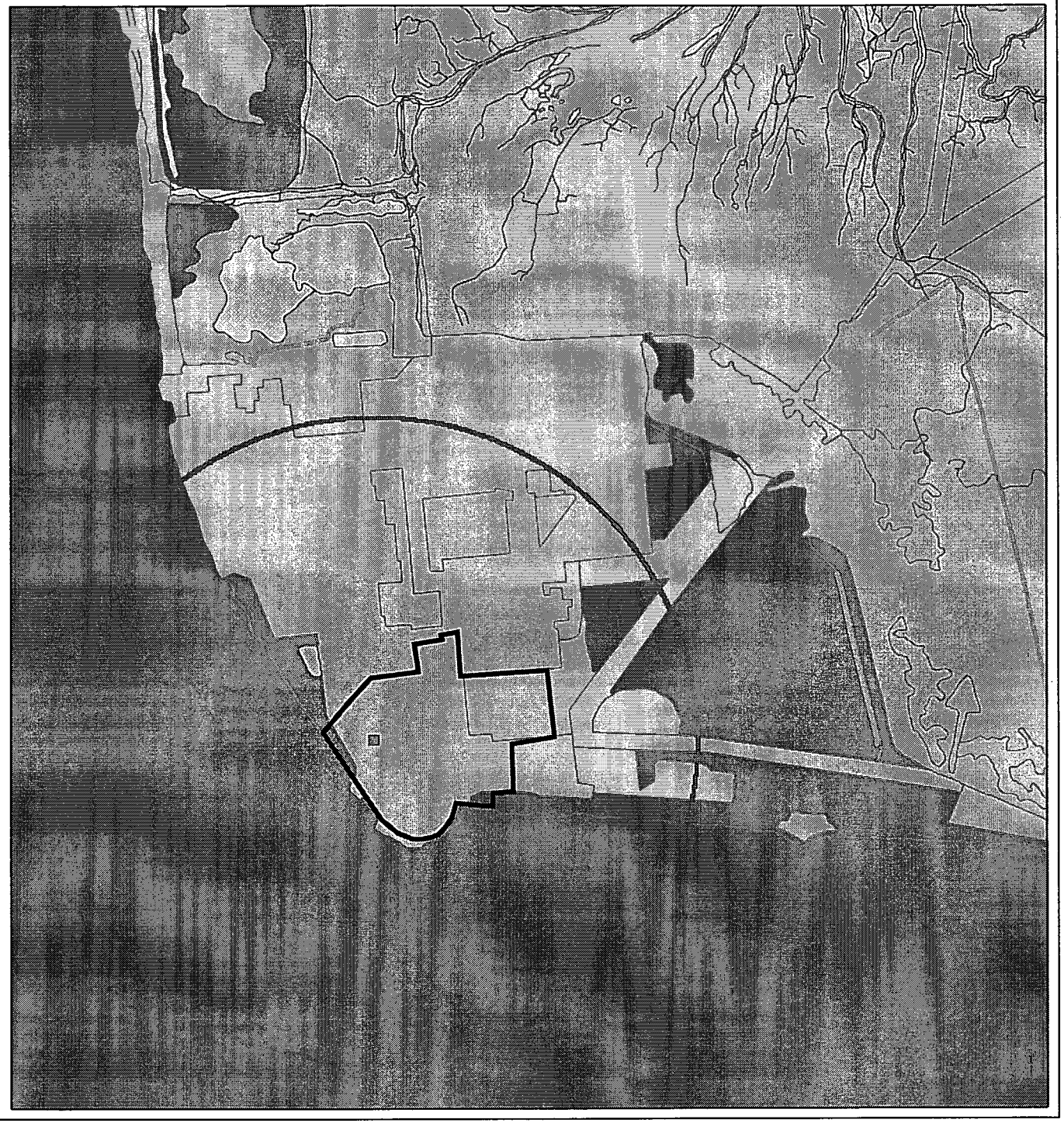
DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
M. WASILEWSKI	5/12/05	P. MILIONIS	A. ROBINSON
PHOTOGRAPH MAP		LEAD DESIGN PROF. S. POTTER	CHECKED B. PIERCE
PSEG NUCLEAR, LLC SALEM GENERATING STATION HANCOCK'S BRIDGE, NEW JERSEY		PROJECT NUMBER NP000603.0001	DRAWING NUMBER 4

Attachment A

New Jersey Department of
Environmental Protection
Geographic Information System
Database Search Results

ARCADIS

Salem Generation Station
Hancock's Bridge, New Jersey

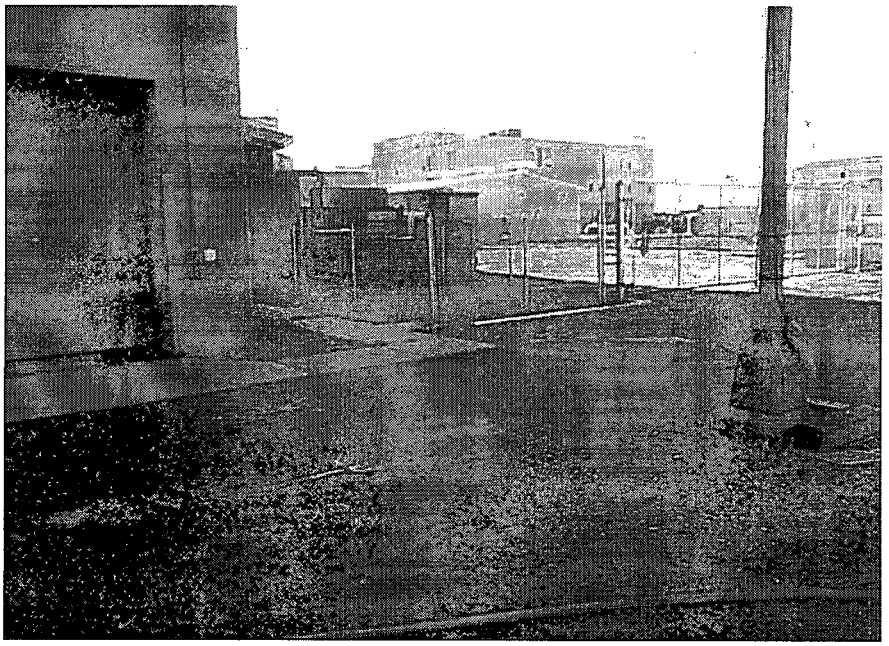


Attachment B

Photo Log

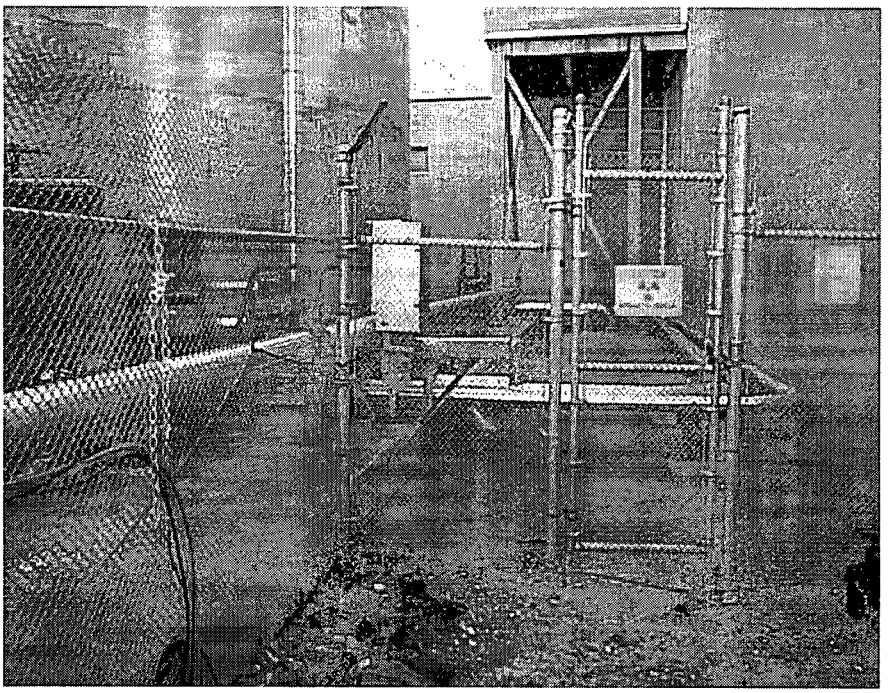
Attachment B
Photo Log

Salem Generation Station
Hancock's Bridge, New Jersey



Photograph 1

Radiation yard south of the fuel handling building. The radiation yard is covered by sand, gravel and hard packed dirt. Grasses grow sparsely in the yard.

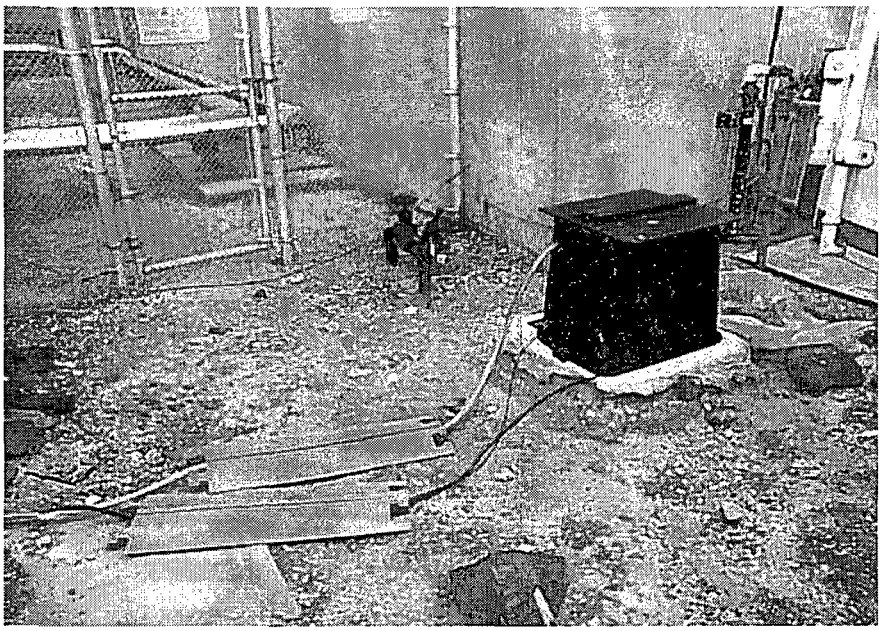


Photograph 2

View from well au, looking north at a radiation area. Ground is covered by concrete, sand and hard packed dirt. Grasses grow sparsely in this area.

Attachment B
Photo Log

Salem Generation Station
Hancock's Bridge, New Jersey



Photograph 3

Well au, site of soil excavation, and Spill Buster® oil and water separation system.

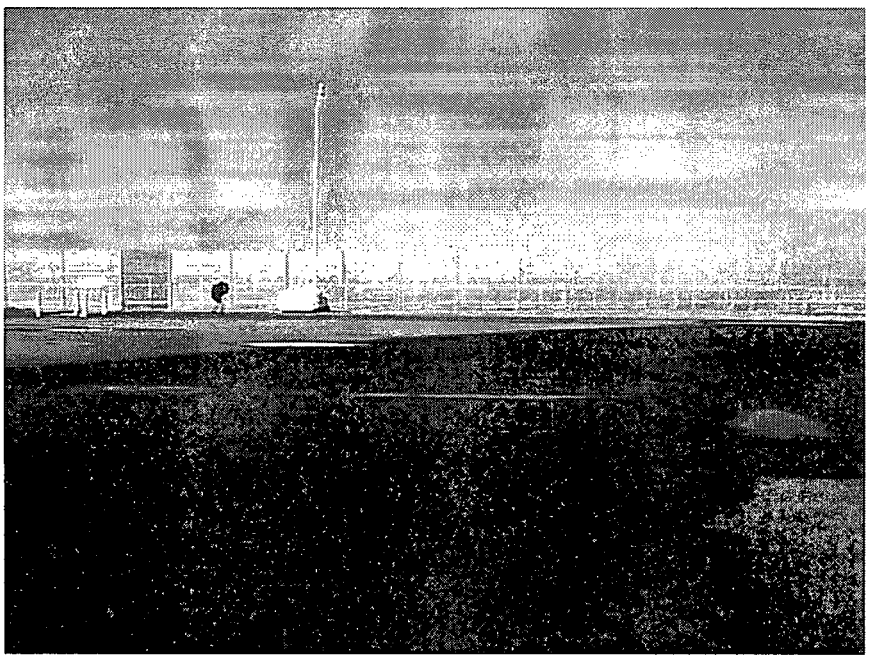
Photograph 4

View of oil containment building from the south. Asphalt and gravel cover the ground.

Attachment B
Photo Log

Salem Generation Station
Hancock's Bridge, New Jersey

Photograph 5
View from the fuel handling building looking west. Asphalt, concrete and gravel cover the soil.



Photograph 6

View from gate outside of the diesel leak area, looking west. Asphalt covers the soil.

Attachment B
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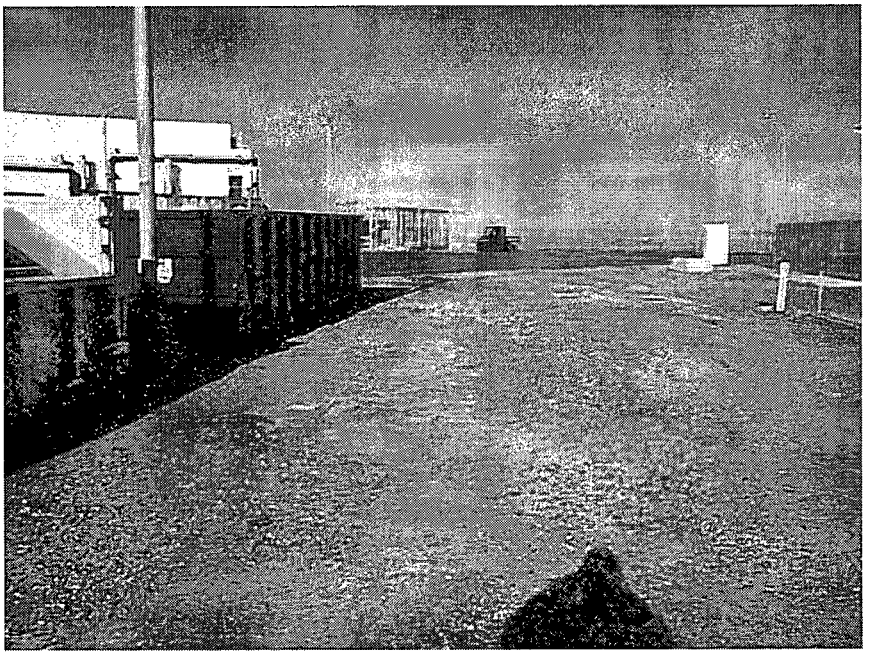
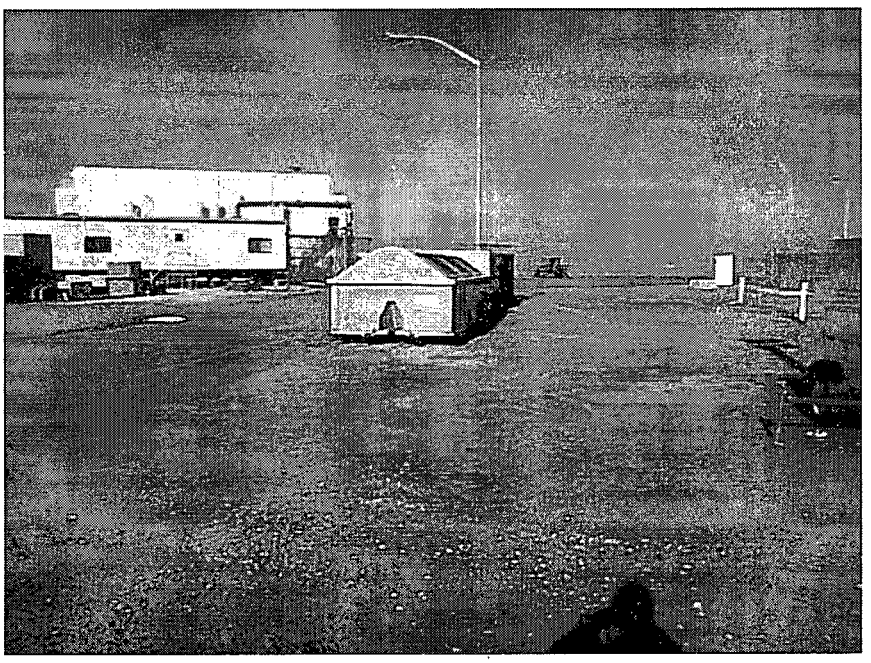
Salem Generation Station
Hancock's Bridge, New Jersey



Photograph 7

View from well ad, looking northwest. Soil is covered by gravel, sand and asphalt.



Photograph 8

View from well aj, looking west. Soil is covered by gravel, sand and asphalt.

Attachment B
Photo Log

Salem Generation Station
Hancock's Bridge, New Jersey

Photograph 9

View from well au, looking east between the fuel handling building and the diesel generating building.

Photograph 10

View from well aw looking south. Soil is covered by asphalt in the foreground and gravel in the back. Miscellaneous containers are against a gate and rest on top of gravel.