SITE: Pier Property
BREAK: 2.8
OTHER: v.1

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT
REMOVAL ACTION REPORT
PIER PROPERTY DRUM SITE
BRADENTON, MANATEE COUNTY, FLORIDA

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EXECUTIVE SUMMARY

The Pier Property Drum site is located in Bradenton Township, Manatee County, Florida. The site is approximately 12 acres in size and is in a rural setting. In November 1994, the Florida Department of Environmental Protection (FDEP) excavated 16 drums from two pits in the southeast corner of the site. The drums remained on site near the excavation pits. The combination of the deteriorating drums and the unknown compounds in them posed a potential treat to human health and the environment.

In January 1995, FDEP requested the assistance of the U.S. Environmental Protection Agency (EPA) Emergency Response and Removal Branch (ERRB). On January 9, 1995, EPA's Emergency Response Team (ERT) led an investigation at the Pier Property site and collected samples. Upon the conclusion of the January investigation, EPA filed an Action Memorandum requesting a removal action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 104(c). During the week of July 31, 1995, oversight for the removal was initiated.

The removal action was conducted in two phases. During Phase I, oversight activities were conducted by the Technical Assistance Team (TAT). The tasks consisted primarily of site preparation and sampling. Phase II began seven months later with a contract change. Oversight activities were conducted by the Superfund Technical Assessment and Response Team (START). The tasks consisted of bulking five wastestreams for transportation and disposal. The removal action was completed on March 7, 1996, with the transportation and disposal of the following five wastestreams:

- BG-01 Non-Regulated Solids
- BG-02 Flammable Oxidizer Liquids
- BG-03 Flammable Organic Liquids
- BG-04 Organic Liquids
- BG-05 Aqueous Liquids

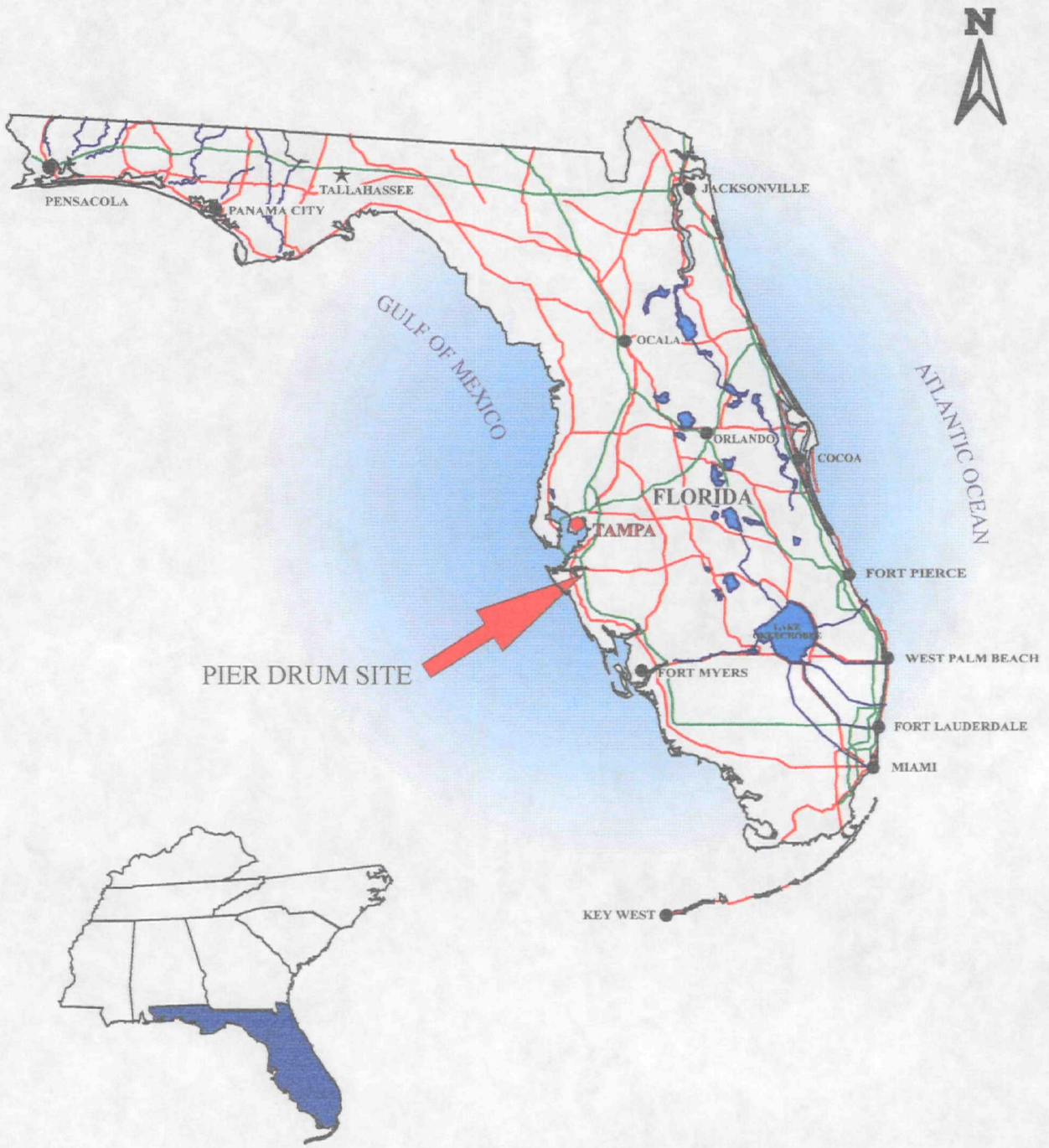
1.0 INTRODUCTION

This document has been prepared in accordance with the requirements of Technical Direction Document (TDD) No. 04-9602-0003, assigned to the PRC Environmental Management, Inc. (PRC), START contract, by EPA Region 4. The overall scope of the TDD, issued by On-Scene Coordinator (OSC) Chuck Eger called for START to conduct a site investigation, and provide removal oversight at the Pier Property Drum site in Bradenton, Manatee County, Florida (see Figures 1 and 2). As part of the investigation, START was tasked to prepare a site specific Health and Safety Plan, prepare a sampling plan, perform multimedia sampling, and document all site activities (see Appendix B).

1.1 Background

The Pier Property Drum site is a 12-acre farm located at 12310 State Road 64, Bradenton, Manatee County, Florida (see Figures 1 and 2). Most of the property is open field, with a barn and sheds along the south side (Figure 3). Reportedly, the absentee landowner leased the property to a third party from 1992 to 1994, presumably to board horses and a run tire recycling operation. In 1993, apparently unbeknownst to the landowner, the third party buried an unknown amount of drums in the south corner of the rectangular property. After being notified of the site by the Manatee County Sheriffs office, the Florida Department of Environmental Protection (FDEP) inspected the site, excavated 17 drums from two pits, and confirmed that additional drums were buried at the site. The open pits subsequently filled with water, either from rain or groundwater or a combination of both. FDEP determined that the state lacked the resources to continue the removal and the excavated drums were left at the site. EPA assistance was subsequently requested.

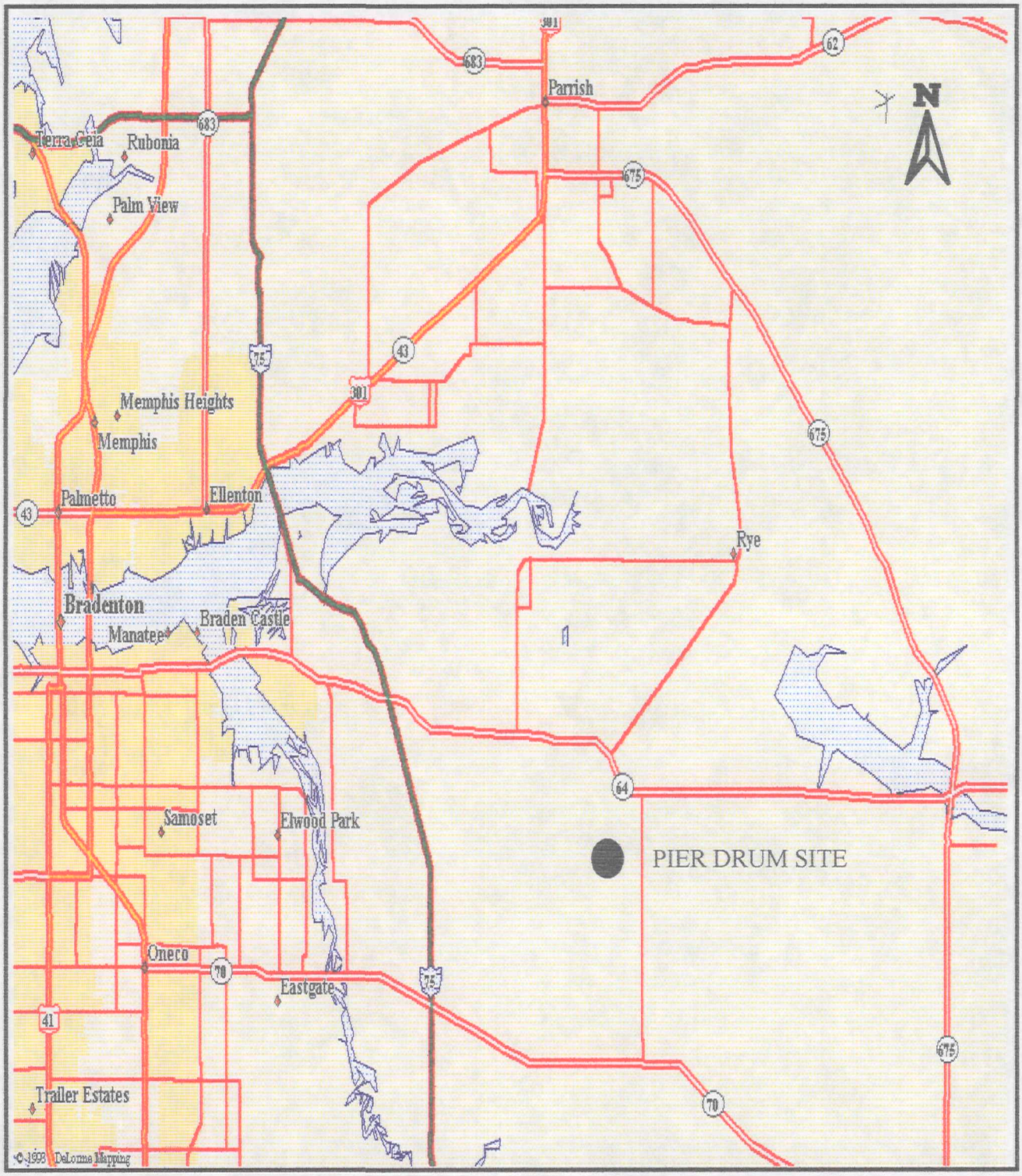
In January 1995, EPA and Weston Response Engineering and Analytical Contract (REAC) conducted a geophysical survey and sampled groundwater, surface water, soil, and drummed waste at the site. The analytical results of the samples collected from the drums previously excavated by FDEP confirmed the presence of high levels of volatile organic compounds (VOC), specifically acetone and styrene. In addition, two base neutral acids (BNA) (benzyl alcohol and benzoic acid) and two metals (sodium and calcium) were detected in the drums.



PIER PROPERTY DRUM SITE
BRADENTON, MANATEE COUNTY, FLORIDA
TDD NO. 04-9602-0003

FIGURE 1
GENERAL SITE MAP

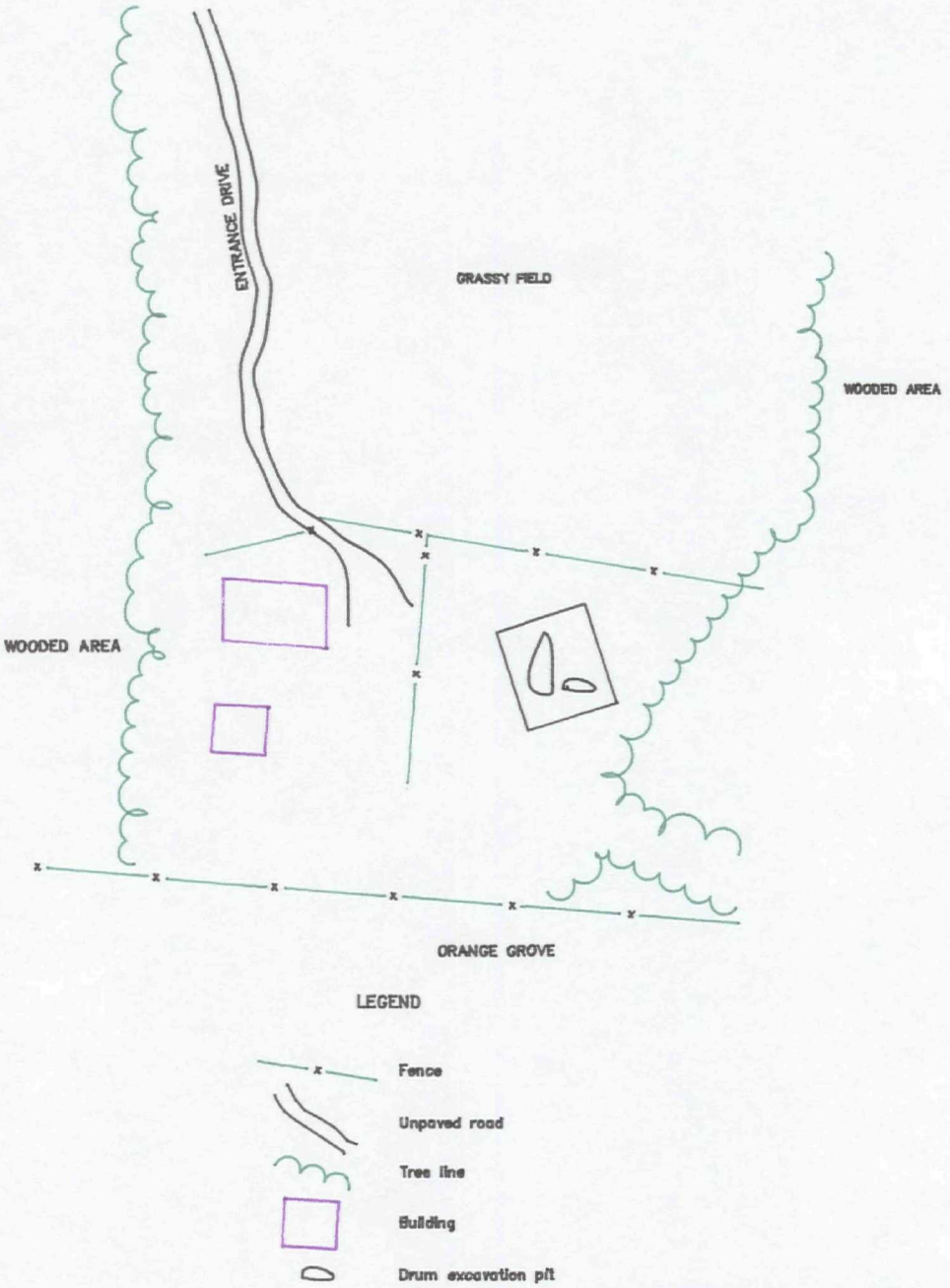
Drawing Not to Scale



PIER PROPERTY DRUM SITE
BRADENTON, MANATEE COUNTY, FLORIDA
TDD NO. 04-9602-0003

FIGURE 2
SITE LOCATION MAP

Drawing Not to Scale



Pier Property Drum Site
Bradenton, Manatee County, Florida
TDD NO. 04-9602-0003

Figure 3
Site Diagram

Not to Scale

PRC Environmental Management, Inc.

Elevated concentrations of metals and VOCs were detected in groundwater samples. Although no concentrations were detected above the maximum contaminant levels (MCL) for those analytes with an established MCL, a release or threatened release into the environment of a hazardous substance or pollutant or contaminant, as defined by Section 101 of CERCLA and Section 300.414(b)(2) of the National Contingency Plan (NCP), exists at the site. EPA therefore determined that conditions at the Pier Property Drum site posed a significant threat to public health and the environment, warranting a removal action. An action memorandum was approved on May 17, 1995.

The TDD, issued by OSC Eger, initially requested that TAT, and later START, provide the following tasks during the removal action:

- Conduct air monitoring
- Provide cost tracking and reporting
- Document on-site activities
- Photodocument the site with still camera and video tape
- Monitor contractor performance
- Support Level B and C capabilities
- Prepare Pollution Reports (POLREPS)
- Prepare sampling plan
- Organize site files according to ARG document
- Prepare site sketch and map

1.2 Previous Investigation

This section briefly describes the two previous investigations conducted at the site.

1.2.1 FDEP Investigation - November 1994

In November 1994, FDEP excavated 16 drums from two pits. The drums remained on site near the excavation pits. The open pits subsequently filled with water, either from rain or groundwater or a combination of both.

1.2.2 ERT Site Evaluation - January 1995

EPA Region 4 and ERT conducted a site assessment between January 9 and 13, 1995. Groundwater, surface water, sediment, and drum samples were collected during the assessment. In addition,

geophysical monitoring and topographical surveying were conducted.

1.3 Site Investigation - January 1995

In January 1995, ERRB requested that ERT conduct a geophysical survey to search for buried drums and to collect and analyze soil, groundwater, surface water sediment, and drum samples at the site. Various drums of hazardous waste, solvents, and resins have been positively identified by the November 1994, FDEP site evaluation.

1.3.1 Groundwater Sampling

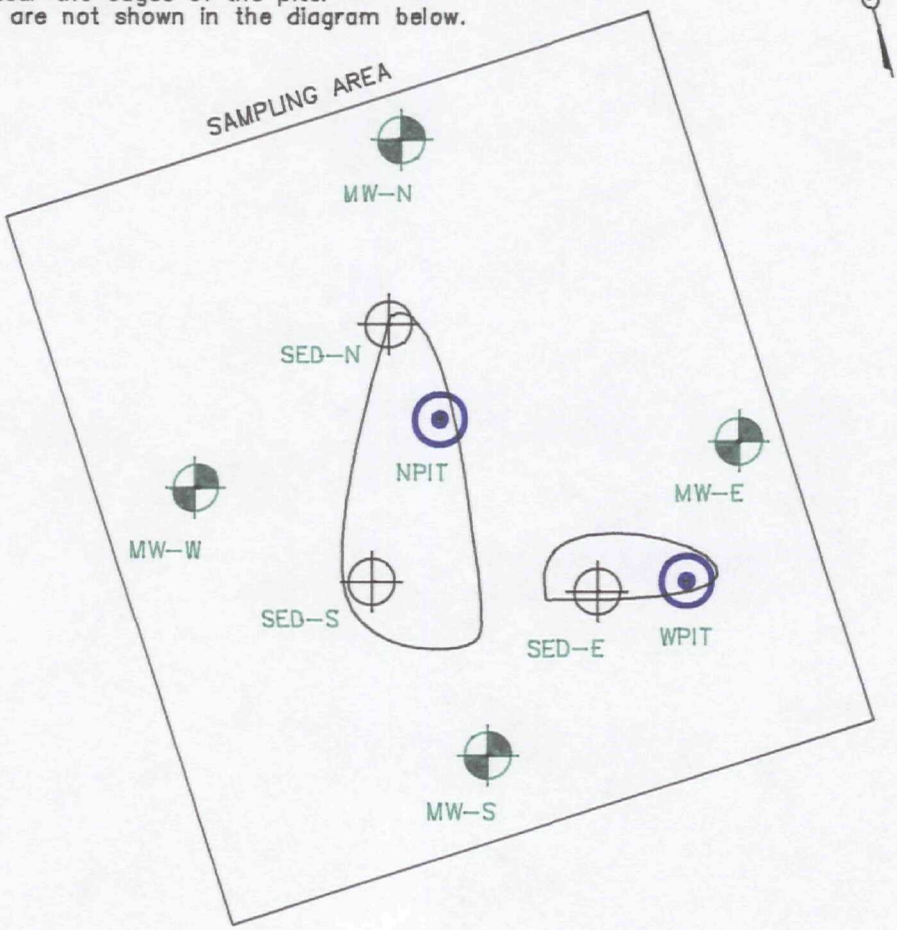
Four temporary monitor wells were installed using hand augers (see Figure 4). The PVC screens were installed approximately 2 to 3 feet below the water table. Prior to sampling, each monitor well was developed by purging until clear water (less than 50 Nephelometric Turbidity Units) was produced. Well development was performed in accordance with U.S. EPA standard operating procedures (SOP) No. 2044, well development procedures. Peristaltic pumps were used to develop and sample the wells. Between 20 and 25 gallons of water were purged from each well during development. Periodically during development, Ph, dissolved oxygen, temperature, and conductivity were monitored using the Omega Water Analyzer™. Turbidity was monitored using the Lamont Turbidity Meter™. The instruments were calibrated daily to ensure accurate measurements. Temperature, Ph, dissolved oxygen, conductivity, and turbidity were measured in each well.

Groundwater samples were collected in accordance with EPA SOP No. 2007, groundwater well sampling procedures. The groundwater samples were analyzed for target compound list (TCL) VOCs, BNAs, pesticides and polychlorinated biphenyls (PEST/PCB), and target analyte list (TAL) metals. Both filtered and unfiltered samples were analyzed for TAL metals.

Elevated concentrations of metals and VOCs were detected in groundwater samples. However, no concentrations were detected above the MCL for those analytes with an established MCL. All samples are below federal and Florida state MCLs. There was very little difference in the concentration levels of the filtered and unfiltered samples analyzed for metals; this indicates that a

Note:

Drums excavated from the pits were located randomly near the edges of the pits.
The drums are not shown in the diagram below.



LEGEND

- Drum excavation pit
- Groundwater sample/temporary monitoring well
- Sediment sample
- Surface water sample

GRAPHIC SCALE

240 0 120 240 480

1:240

Pier Property Drum Site
Bradenton, Manatee County, Florida
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Figure 4
Sample Locations for Sediment Surface Water, and Groundwater

FRC Environmental Management, Inc.

majority of the metals in the groundwater are dissolved. PEST/PCBs were not detected in groundwater samples (see Appendix D, Table 8).

Depth to groundwater measurements were taken after development of each well. Water level measurements were recorded in accordance with ERT SOP No. 2043, water level measurement procedures. These measurements were used to determine groundwater elevation and flow direction (see Appendix D, Table 2, and Figure 5). Groundwater flow appears to be flowing in an easterly direction.

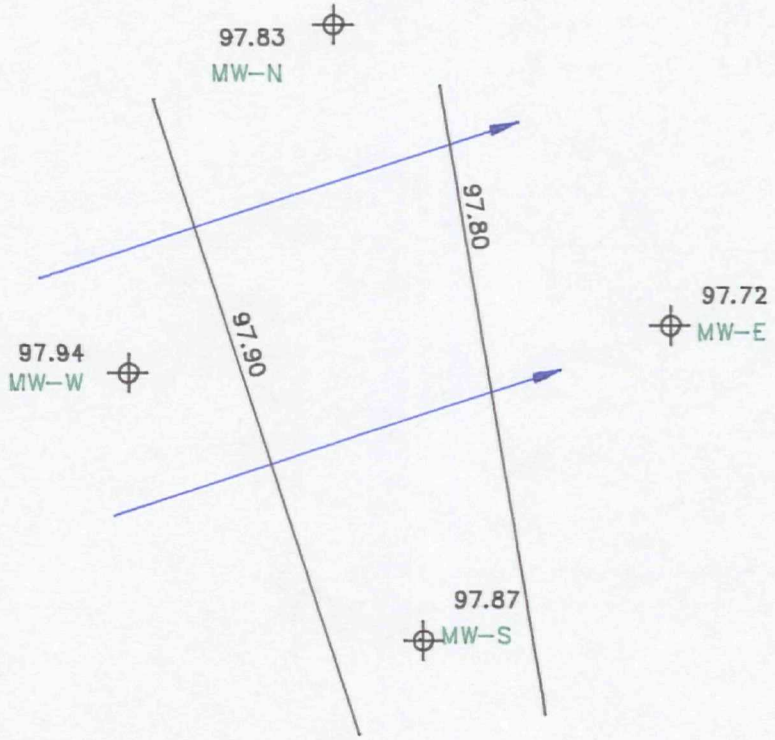
1.3.2 Surface Water Sampling

Two surface water samples were collected from the excavation pits in accordance with EPA SOP No. 2013, surface water sampling procedures. The surface water samples were analyzed for TCL VOCs, BNAs, PEST/PCBs, and TAL metals.

PEST/PCBs were not detected in any surface water sample. In addition, one BNA (di-n-butylphthalate) and one VOC (acetone) were detected at low concentrations. The metals analysis results indicate that metals in the surface water samples are dissolved based on the sugar difference between the filtered and unfiltered sample concentrations (see Appendix D, Table 9). Sodium, magnesium, calcium, and aluminum were detected at elevated levels. No sample concentrations were detected above MCLs.

1.3.3 Sediment Sampling

Three sediment samples were collected from the excavation pits using hand augers. The sediment samples were collected in accordance with EPA SOP No. 2016, sediment sampling procedures. These samples were analyzed for TCL VOCs, BNAs, PEST/PCBs, and TAL metals. In addition, these samples were analyzed for toxic characteristic leaching procedure (TCLP) for the same parameters.



Note:

Groundwater table based on water level measurements from 4 temporary monitoring wells

Groundwater gradient is approximately 0.003 ft

All distances are in feet

Elevations are relative to the site

LEGEND

Contour line

Groundwater direction

Temporary monitoring well

GRAPHIC SCALE

240 0 120 240 480

1:240

Pier Property Drum Site
Bradenton, Manatee County, Florida
TDD NO. 04-9602-0003

Figure 5
Groundwater Elevation and Flow Direction

PRC Environmental Management, Inc.

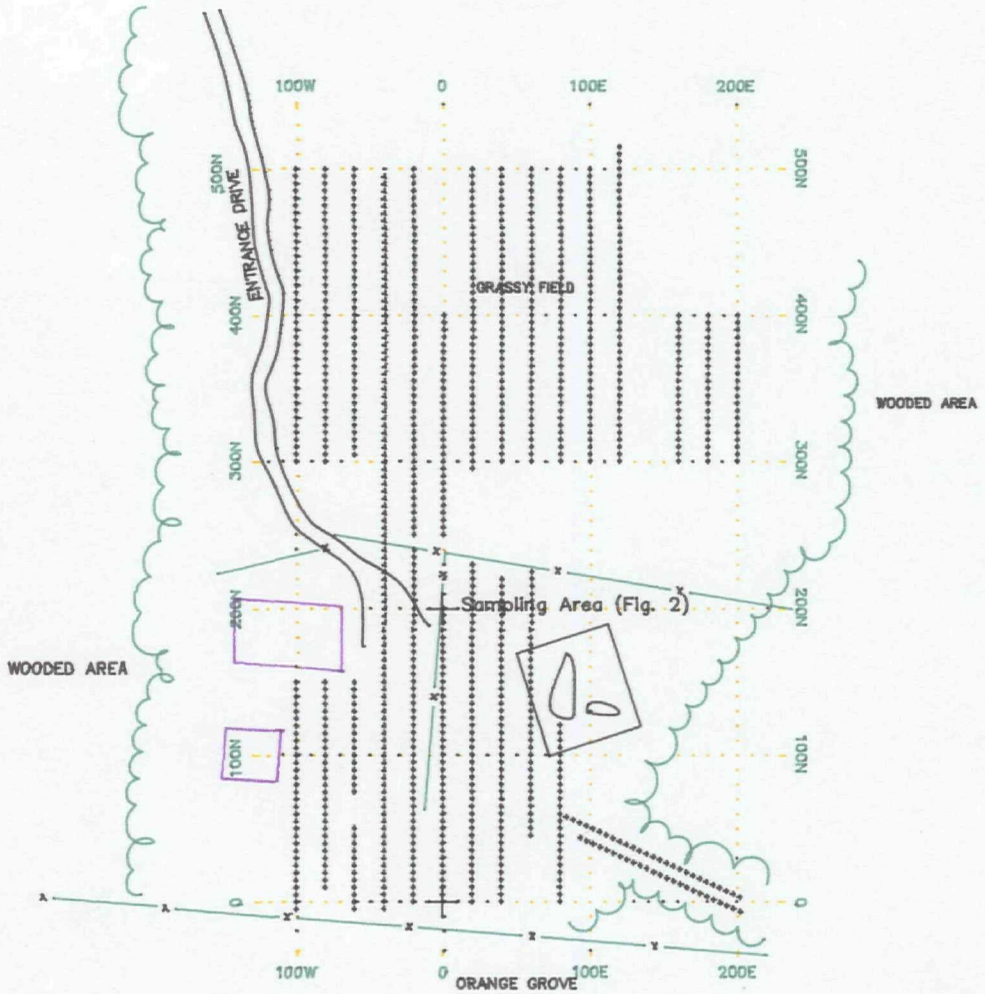
The results of the TCLP analysis indicate the presence of phthalates and benzylalcohol in sediments. Of the BNAs detected, di-n-butylphthalate, butylbenzylphthalate, and bis (2-ethylhexyl) phthalate, were also detected in the blank. Metals and low levels of VOCs were also detected in sediments (see Appendix D, Table 10). Some metals were detected in the blank at low concentrations. No PEST/PCBs or VOCs were detected in any of the samples (see Appendix D, Table 11).

1.3.4 Geophysical Survey

A survey was performed to detect and delineate geophysically anomalous areas indicative of buried drums within a 12-acre portion of the site. Variations of the earth's local magnetic field intensity occur in the vicinity of ferromagnetic objects. It is common practice to measure this field alone, or in combination with its vertical gradient, to locate buried ferromagnetic objects (such as steel drums). Empirical studies have shown that an individual 55-gallon steel drum can be detected when buried in relatively nonmagnetic material to depths of up to 10 feet.

Geophysical methods used in this investigation included electromagnetics and magnetics. A GEM® Systems model GSM-19 magnetometer/gradiometer was used to obtain the earth's total magnetic field intensity and vertical magnetic field gradient at geophysical grid stations. In addition, a Geonics® EM-31 terrain conductivity instrument was used to obtain terrain conductivity and in-phase readings at these same stations.

A geophysical grid was established using a compass and a measuring tape, consisting of traverses spaced 20 feet apart, upon which stations were located at 5-foot intervals. The geophysical grid is shown on data plots, and are posted with a "+" symbol (see Figure 6). Line orientations were magnetic north-south, and wooden stakes were used to indicate the locations of the 0 North grid position on each line.



LEGEND

- Geophysical grid
- Fence
- Unpaved road
- Tree line
- Building
- Drum excavation pit

Not to Scale

Pier Property Drum Site Bradenton, Manatee County, Florida TDD NO. 04-9602-0003
Figure 6 Site Drawing with Geophysical Grid
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1.3.5 Drum Sampling

Drums were sampled after they were opened with non-sparking beryllium tools. Samples were collected utilizing glass drum thieves and deposited into 32-oz glass jars for field screening. Drum samples were collected in accordance with EPA SOP No. 2009, drum sampling procedures. Drum samples were referenced according to the REAC's numbering system (REAC No. 1 through REAC No. 16) and the sample numbers correspond to FDEP numbers. Drums REAC No. 6, REAC No. 15, and REAC No. 16 could not be opened because they were filled to the top and the contents had solidified; therefore, they were not sampled. Drum REAC No. 12 was not sampled upon the instruction of the EPA work assignment manager because it had the same contents as drum REAC No. 10.

The results of the analysis of the three liquid composites indicate high levels of VOCs, especially acetone and styrene (see Appendix D, Table 5). No BNAs were detected in any of these liquid samples. All three drum samples contained elevated levels of sodium, potassium, manganese, magnesium, and cobalt. The results of the disposal characterization analyses indicate that samples REAC No. 2 and REAC No. 9 have high BTU levels and low percent moisture, where as sample REAC No. 4 has a low BTU and high percent moisture (see Appendix D, Table 6). Percent ash, chloride, and sulfur were relatively low and consistent in all three samples. REAC No. 2 and REAC No. 4 were overpacked due to their poor condition.

The results of the TCLP analysis for the drum solids also indicate that high concentrations of VOCs are present. In addition, two BNAs (benzylalcohol and benzoic acid) and two metals (sodium and calcium) were detected. Concentration levels of PEST/PCBs were very low level or not detected (see Appendix D, Table 7).

1.3.6 Chemical Categorization Screening

Drum contents were categorized using several field screening methods (see Appendix D, Table 3). Based on the results of the screening, samples were composited into three solid samples and three liquid samples. The solid samples were analyzed for TCL, TAL, and TCLP analytes. The liquid

composites were analyzed for disposal characteristics and TCL analytes (see Appendix D, Table 4).

1.3.7 Site Investigation Results

Sixteen drums were sampled to determine disposal characteristics. Based on the results of the field tests, the drum samples were composited into three liquid and three solid samples. Results of the analyses indicate elevated levels of volatile organics and metals.

Surface water, groundwater, and sediment samples were also collected. No analyte exceeded established MCLs for the groundwater and surface water samples. Low levels of VOCs, metals, and BNAs were detected in sediment samples.

Based on the results of a geophysical survey, anomalies were identified as surface metal (drums and structures). No other anomalies that would indicate additional buried drums were noted.

2.0 PHASED APPROACH REMOVAL ACTION

The following sections describe the phased approach to the removal action at the Pier Property Drum site. Phase I of the removal action consisted primarily of site clearing, drum excavation and staging, and collecting and submitting samples for full scan analysis. Phase II of the removal action consisted of grouping wastestreams and selecting transportation and disposal facilities.

2.1 PHASE I

This section describes the tasks completed during the Phase I of the removal action. Specific elements of the Phase I activities included the following:

- Clearing and excavating remaining drums on site
- Restaging drums, including overpacking damaged drums
- Confirming the number and condition of the drums
- Collecting and submitting samples to a laboratory for a full scan analysis
- Designating the bulking groups and disposal options upon receipt of the analytical data

2.1.1 Site Preparation

During the week of July 31, 1995, EPA, TAT, and ERCS personnel mobilized to the site to determine personnel and equipment needs. After reviewing water sample data collected from two on-site ditches where the suspected drums were buried, EPA concluded that no significant levels of toxic chemicals were present. The ditches were therefore dewatered and excavated by ERCS.

2.1.2 Excavation, Overpacking, and Staging of Remaining Drums

Following site preparation activities, the removal action focused on the excavation of the remaining drums, conducting an inventory, and restaging the drums to a central location. The inventory process included visually inspecting the drums for changes in condition and then comparing the number and size to drum log data.

A total of 15 drums were retrieved from the two ditches. Approximately, seven of the 15 drums needed to be overpacked immediately because of their poor condition. The crew and all personnel in the exclusion zone were in Level B personal protection equipment (PPE) during the excavation operation. An air monitoring survey, using an organic vapor analyzer (OVA), CGI, and H_2S monitoxs showed no levels of contaminants above the background of 1.0 ppm during the excavation and drum overpacking operations. A total of 34 drums were staged in an area near the excavation. Of the 34 drums, 17 were from the previous site investigation, an additional 15 drums were retrieved during the excavation operation, and two were used to store liquids drained from leaking drums and debris from the operations. Photographs of the drum staging operation are located in Appendix C. The final staging layout consisted of five rows by seven columns.

2.1.3 Sampling and Hazard Characterization

TAT collected two groundwater samples (PD-20 and PD-21) from the excavated ditches on August 11, 1995. These samples were sent to Weston Environmental Metrics, Inc., in University Park, Illinois, for VOC, RCRA metals, and cobalt analyses. Low level detections of ethylbenzene, styrene, and toluene were detected in the groundwater sample analyzed for VOC. The RCRA metals and cobalt analyses also indicated low levels of arsenic, barium, chromium, cobalt, lead, and selenium (see Appendix E).

On August 13, 1995, ERCS contractors, with close EPA and TAT oversight, collected waste samples from the 34 drums retrieved for hazard characterization and disposal profiling. ERCS used an air hammer and chisel to open drums. To reduce the possibility of sparking, a steady stream of water was used with this methodology. Under the direction of the OSC, the utilized several air monitoring instruments (LEL Meter, OVA, and PID Microtip) to ensure safe working conditions in the exclusion zone. ERCS also compiled drum logs for the excavated drums. Mr. Bill Berry, property custodian, was present during sampling of drums.

EPA and TAT established 20 sampling grids that are approximately 125 feet by 120 feet (see Figure 7). EPA and TAT also collected 27 composite surface soil samples (see Appendix F), and seven groundwater and surface water samples (see Appendix G). The soil samples were analyzed for total metals, cobalt, and VOCs. Water samples were analyzed for VOCs, metals, acetone, and styrene. Weston Environmental Metrics, a CLP Laboratory, performed the analysis. Soil analytical results indicated low levels of acetone, arsenic, barium, chromium, and lead. Water samples indicated low level detection of Methyl tertiary-butyl ether, arsenic, and lead.

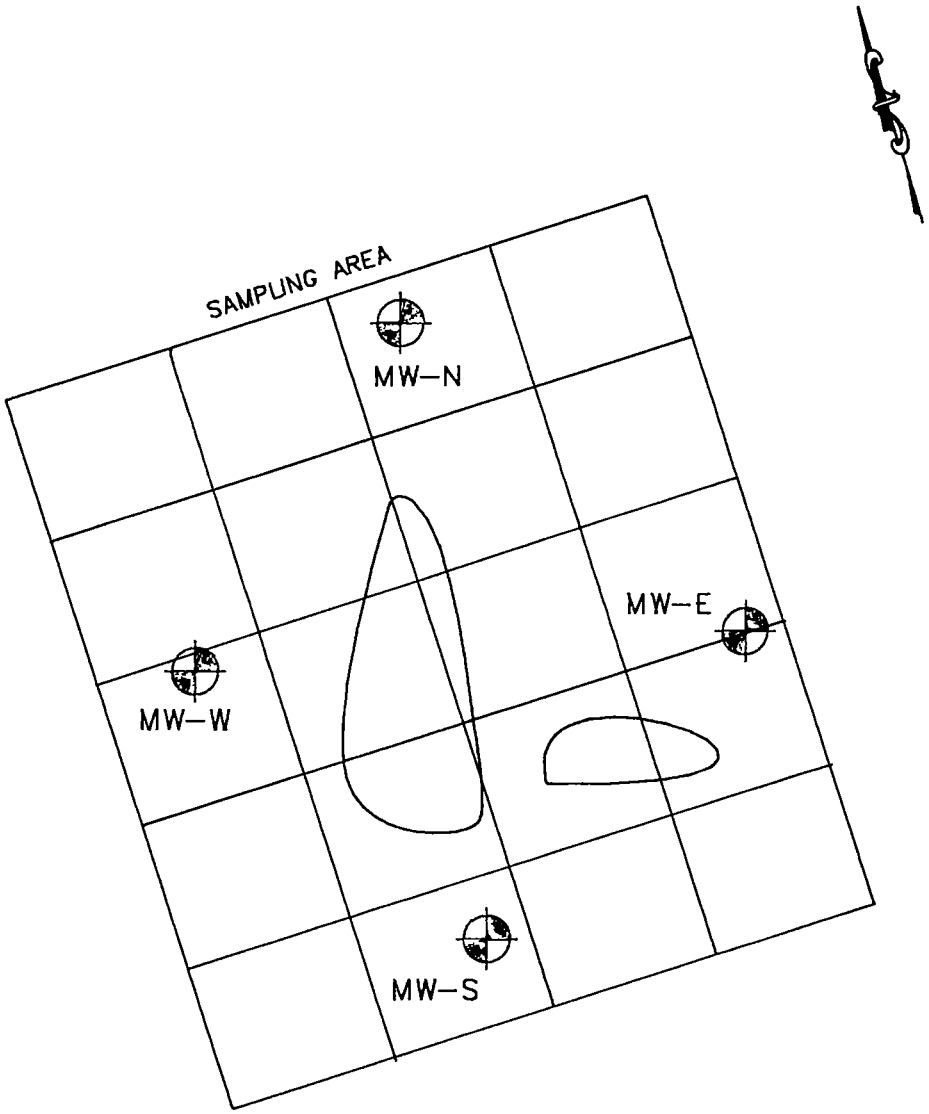
Between August 1, 1995, and August 6, 1995, site activities were suspended due to conditions associated with Hurricane Erin. Removal activities resumed on August 7, 1995.

2.1.4 Site Demobilization

Phase I of the removal was completed on August 17, 1995. The site was secured by covering the drums with visqueen. ERCS and EPA personnel demobilized from the site on August 16, 1995. TAT demobilized on August 17, 1995, one day later, to release several pieces equipment to their owners. Site custodian, Bill Berry, inspected the site periodically, and noted any changes in the conditions of the drums.

2.2 Phase II

Phase II removal action activities began on March 5, 1996, after a seven month hiatus. The length of time between Phase I and the beginning of Phase II was the combined result of a federal budget impasse and government furloughs. Specific elements of the Phase II removal action consisted of a criminal investigation sampling event, grouping waste material into their designated wastestreams, and



LEGEND

Drum excavation pit

Groundwater sample/temporary monitoring well

Note:

Drums excavated from the pits were located randomly near the edges of the pits.
The drums are not shown in the diagram above.
Grids measure 125' x 120'.

Pier Property Drum Site
Bradenton, Manatee County, Florida
TDD NO. 04–9602–0003

Figure 7
Soil Sampling Grid

Not to Scale

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arranging the transportation schedules for disposal of waste material. The following sections summarize Phase II removal action activities.

2.2.1 Site Preparation

On Tuesday, March 5, 1996, EPA and START personnel mobilized to site. Also present on site was Daniel L. Green, Special Agent representing EPA, to oversee the Federal Criminal Investigation sampling event.

During the sampling event, Regional Site Manager (RSM) Karen Buerki conducted multimedia documentation and public relations activities. Two representatives from a local television station arrived outside the site. They were denied access by the property owner and were asked to leave by Special Agent Green. Peter Mitchell of the Manatee County Government, Environmental Management Department, also arrived at the site.

2.2.2 Wastestream Designation and Bulking

Results from the full scan analysis and Hazcat data analysis indicated five bulking groups (BG), identified as BG-01 through BG-05. The following five wastestreams were designated:

- BG-01 Non-Regulated Solids
- BG-02 Flammable Oxidizer Liquids
- BG-03 Flammable Organic Liquids
- BG-04 Organic Liquids
- BG-05 Aqueous Liquids

The wastestream designation and disposal profiles are included as Appendix I.

2.2.3 Criminal Investigation Sampling Event

At approximately 0930 hours, START began preliminary air monitoring in Level C PPE. Air monitoring with the Microtip upwind indicated 0 parts per million (ppm), and downwind results were 4 ppm to 5 ppm. START began opening overpacks on drums 10, 15, 16, 18, 32, 33, and 34. These drums were entered first because they were representative of the five bulking groups established from previous data collected by the ERCS (see Appendix H).

As result of the high volatile readings for drum 15, START sampled all the drums in Level B PPE. The samples were collected according to EPA's Environmental Services Division (ESD). Standard Operating Procedures and Quality Assurance Manual, February 1991. The sampling event was completed at approximately 1510 hours.

2.2.4 Transportation and Disposal

The following sections describe the transportation and disposal of the wastestreams, including waste quantities. The final disposal of waste was coordinated by the ERCS contractor. Waste were transported to Laidlaw Environmental's Treatment Storage and Disposal Facility (TSDF) in Clearwater, Florida, where Laidlaw took "title" of all waste generated at the Pier Property Drum site. Copies of the waste manifests are included in Appendix I.

2.2.4.1 Non-Regulated Solids (BG-01)

The non-regulated solids wastestream was generated from the residual materials that remained in the drums from the BG-01 wastestream. A total of 28 drums of soil, sludge, and miscellaneous organic material was accumulated and profiled separately as non-regulated solids. The 28 drums were placed in 85-gallon overpack drums and staged separately for transportation.

2.2.4.2 Flammable Oxidizer Liquids (BG-02)

Flammable oxidizer liquid was identified in one drum at the site. The drum was placed in an 85-gallon overpack drum and staged for transportation. A treatability study conducted on this wastestream detected high levels of solvents (ethyl benzene, styrene, xylene, and toluene), copper, and lead.

2.2.4.3 Flammable Organic Liquids (BG-03)

The flammable organic liquid wastestream included four drums with liquids that had flash points between 73 and 140 degrees fahrenheit. The four drums were placed in 85-gallon overpacks. The drum contents consisted mainly of acetone, styrene, and water.

2.2.4.4 Organic Liquids (BG-04)

The organic liquids wastestream included two drums that contained approximately 76 percent water. The liquids were placed in 85-gallon overpacks and staged separately for transportation and disposal.

2.2.4.5 Aqueous Liquids (BG-05)

The aqueous liquids wastestream consisted primarily of the drums that were filled with mostly water, oil, and styrene. The two drums were placed in 85-gallon overpack drums and staged separately for transportation.

3.0 CONCLUSION

On January 9, 1995, oversight activities for a CERCLA removal action began at the Pier Property Drum site in Bradenton, Manatee County, Florida, following inspections by the Manatee County Sheriff's Department and FDEP, and an ERRB-led investigation that was conducted in November 1994. The site conditions and analytical results from the ERRB investigation prompted EPA to submit an Action Memorandum requesting a removal action. Throughout the removal action, TAT (continued by START) provided detailed documentation of site activities. Weekly POLREPS were submitted to EPA to keep the Agency updated on the progress of the removal. The POLREPS are included as Appendix J.

The removal action was conducted in two phases and completed on March 7, 1996. Phase I consisted primarily of site preparation, drum excavation and staging, and sampling. Phase II consisted of bulking the wastestreams for transportation and disposal. Based on Hazcat results and additional evaluation, five wastestreams were designated. With the removal action complete, the potential threat to human health and the environment was significantly reduced. No further actions by ERRB are anticipated at the Pier Property Drum site.

4.0 REFERENCES

Weston REAC. 1995. Trip Report, Site Investigation conducted on January 9, 1995, Pier Property Drum Superfund Site, Bradenton, Florida. March.

APPENDIX A

ROSTER OF AGENCIES

(1 SHEET)

ROSTER OF AGENCIES, ORGANIZATIONS AND INDIVIDUALS

The following is a listing of agencies, organizations and individuals involved in the removal actiities at the Pier Property Drum site in Bradenton, Manatee county, Florida. For a more complete listing, please refer to the site file.

Chuck Eger, On-Scene Coordinator
James Webster, On-Scene Coordinator
James Hudson, On-Scene Coordinator
Karen Beurki, Regional Site Manager
U. S. Environmental Protection Agency
Emergency Response and Removal Branch, Region 4
345 Courtland Street, N.E.
Atlanta, Georgia 30365
(404) 347-3931

John D. Wright, START
Ronald Starks, START
Keller Davis, START
PRC Environmental Management, Inc.
Gwinnett Corporate Center
1750 Corporate Drive
Suite 735
Norcross, GA 30093
(770) 935-1542

Robert VanHoudt
Paul Mickler
OHM Remediation Services Corporation
Project Supervisor
16305 N.W. 48th Avenue
Miami, FL 33014
(305) 624-7882

John Rhyne
OHM Rediation Services Corporation
T&D Coordinator
5335 Triangle Parkway, Suite 450
Norcross, GA 30092
(770) 729-3900

Daniel L. Green, Special Agent
U.S. Environmental Protection Agency
P.O. Box 172057
Tampa, FL 33672-2057
(813) 274-6202

APPENDIX B

LOGNOTES

(15 Sheets)

Monday, Aug 7, 1995, Hot, Humid 85° F Clear Sky
0800 TATM Starks arrives on site -
0900 OSC and OHM arrive on site
Equipment on site: Kobelco excavator from Hertz rental # MARK IV SK120 LC, also a ~~backhoe~~ Bus John Deere Bull Dozier and Gradall Fork Lift / Drum Grappler.
- Site Approx 50 to 100 buried drums in two excavation points, Very low water table. The plans is to depart the H_2O because the drums are under water and than remove and stage the drums, sample and H_2O Cat, OSC will have OHM sample and arrange laboratory in this area so that samples can be transported by Car.
1 Generator 480 Volts from Prime equipment.
1010 OHM Crew arrives on site 5 Men arrive the PCT and RM were already here. one Truck with equipment and two pickup trucks.
1030 Crew had a short safety and activities meeting.
1100 Crew began to prepare area For excavation Clearing Weeds ect to make the area ~~assessable~~ accessable for the Heavy equipment
1145 Crew began to stage drums that were left from the State and Rene sampling effort. the drums will be staged in the excavation area but north side of the excavation area.
1300 Called the office Spoke with Paule M

Concerning the analytical data for Pier Drum site preliminary data indicate low level of metals but no detection of VOC. Paula will Fax the Hard Copy to Comfort Inn.
1320 TATM returns to site with lab data — OHM RT's offsite, only two equipment operators remain along with the Field Accountant and the Response Manager from OHM.
Two load of rock expected on site to shore up the road that were built for easy access for the Heavy equipment
1530 TAT off site

Tuesday Aug 8, 1995 Humid 80°F
0700 TATM Starks arrives on site attend safty meeting and daily activities.
0720 TAT Calibrates the Micro tip and helps OHM Calibrate the OVA it need a internal adjustment it is suppose to read 98 ppm it read 70 ppm. this is OHM equipment not TAT.
0740 TAT Conducts a Background Air monitoring of site excavation area no reading above 1.0 ppm, Background is established at 1.0 ppm
0750 The trailer being anchored down the spike driven into the ground pierced the water pipe a put a hole into it; the OHM Crew is Contacting the City water dept so they can Cut off the water and repair the pipe.
0500 OHM need air bottles to start the excavation, air line will not work in this terrain, OHM starts to pump water from the excavation hole, the operator will scrape away the first foot or so of soil and the will probe the area for the drums before they began to actually dig them up
0915 The Crew have pumped most of the H2O from the excavation holes.
OSC wanted a tape to measure the area for future soil sampling
1015 TAT Starks and OHM Crew enter HOT Zone in level B protection. TAT Conducts air monitoring during excavation no reading above background 1.0 ppm TAT Photodocuments the excavation activity and the ERC air monitoring - only one drum was pulled out of the hole - no markings and rusted -
1210 Two more drums found in East - excavation / one drum marked Flammable the other no markings
1230 Crew breaks for lunch
1300 Crew back to work.
1320 TATM Starks enters hot zone in level B, TAT Conducts air monitoring and records activities by mean of Photo documentation, TATM takes picture of excavated drums and work area.
1415. OHM runs out of Hydrogen for the OVA, the will have it sent
Contacted Paula McClaren at the office OSC Want 25 Soil Samples and 7 Water for next week, he wants the same detection limits used for

drinking water (ppb) TAT has observed no reading above background 1.0 ~~ppm~~ during air monitoring, TAT Conduct perimeter air to assure no Contaminates are emitting from the site.
1435 Three more drums are found - one was overpacked because it was leaking - one more drums has been uncovered but remains in the excavation pit.
1445 Crew takes break
1405 Crew prepare to re enter Hot zone
1520 one more drums is retrieved from the Excavation
1600 Crew move Excavated soil to staging area
1636 Crew off site

Rw

Aug 9, 1995 Wednesday Humid 75°F
0700 TAT Starks on site
0730 Crew began excavation three men in Hot zone 2 RT and one equipment operator. TAT surveyed the area with the Micro tip before work began no reading above background of 0.0.
0825 1 drum found in West Excavation
(0840) 2 more drums found in west excavation
0920 2 drum Found 1 needed to be overpacked.
1000 Picked up Fed Express Shipment SCBA - Crew Completes over pack
1050 1 drum retrieved from Hole need overpacking

1120 Two more drums retrieved from West Excavation this makes a total of 9 drums total out of West excavation.
1210 Crew exits Hot zone
1230 Crew takes lunch
1310 Return from lunch and began afternoon work - Continue to excavate drum burial site and overpack drums
1345 Crew enter Hot zone
1430 TAT enters Hot zone in level B to Photo document the drum excavation
1500 All drum are removed from the hole no more found a total of 15 drums were retrieved on Aug 8 and 9th
1510 Crew takes break
1547 Began staging drums for sampling activities and arranging dirt piles
1630 Crew breaks TAT Collects sample of dirt pile for analysis T. Metals.
1650 Crew leaves for the day

Rw

Thursday Aug 10, 1995
0700 TAT Starks arrive on site, crew safety officer from ERC's Conduct safety Meeting activities for today will be staging drums for sampling and arranging the stock piles and then Covering them with Plastic.
0800 OCS request for next week PH meter, bailers to sample 4 wells tape measure, Compass. 2 SCBA'S Sample Jars and Container for Metals and VOA'S - 30 Soil Samples, trays

Spoon ect for Composite samples. Conductivity Meter. Bring a trip Blank with him. Sample tags COC ect.

0830 Called the office to arrange for John Wright to have the equipment to Conduct the Sampling operation for next Week.

0900 Crew overpacking and making drum logs of the unburied drums the drums will be staged in the yard.

1020 Picked up Fed Ex delivery from hotel Spoke with Paula she is going to arrange for us to Pick up Reagent H2O Form Pace Lab

Pace 813-884-8268
Colina Oleynck
5460 Beaumont Ctr Blvd
Suite 500
Tampa FL

1130 ERC's Crew Complete drum log and numbering System Reac 1 thru 16 and drum retrieved by OHM numbered 1 thru 18 for a total of 34

@ 275 - I 4 Hillborough ave West 5 or six Miles back of Airport OVER pass under neath overpass on North site Beaumont business Center go all the back last section these directions are the way to pace Laboratory

1200 ERC's Demobc's the Equipment operator and Health and Safety officer Lunch break.

1240 Crew returns from lunch

1300 Crew Continues to overpack drums and Stage them outside of gate. The long Neck operator Connects the two Excavation to make a Small pond like area.

1400 TAT Leave for Pace lab to pick up DI water for Sample blanks — Contacted Paula M at office she has not recieved Confirmation from any lab as of this time

1600 Return from Tampa with DI water and met with Jim webster Concerning the activities for tommorrow.

1630 TAT off site

Friday Aug 11, 1995 Hot Humid Clear Sky

0700 TAT arrive on site

0730 TAT Collects Samples

0730 Sample PD-20 VOA Sample Collected from Excavation Ditch.

0734 Sample PD-21 - TOTAL metal Sample Collected from excavation Ditch.

0745 ERC'S Crew Continues to overpack and stage drums.

0800 TAT prepares sample for shipment OHM Continues to overpack and stage drums. OHM is going to leave the third soil Pile on the North side of Area.

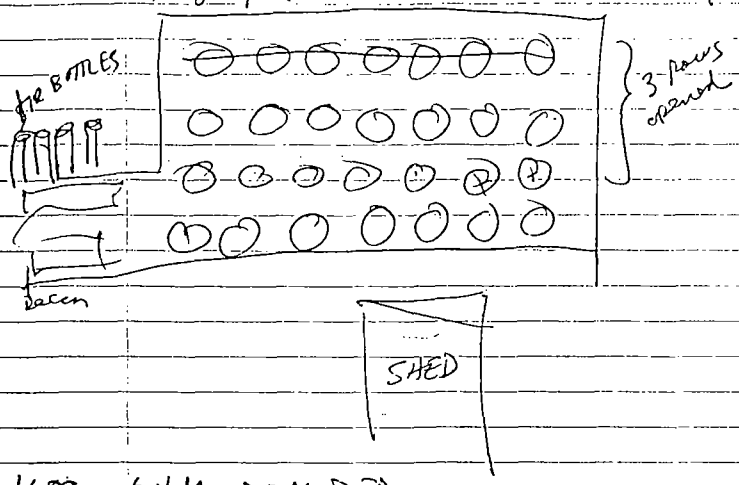
1000 ~~Log T WESTON Inc RS~~
~~Drop~~ Lab address from Paula
Weston Enviromental Metrics Inc
2417 Bond St
University Park

60466 Phone 708-534-5200
Erci Lang. Lab Contact
1010 OHM has Completed staging drums
1050 OHM Completes staging drums and put final touch on the excavation pit (clean or slope the side.
all of the soil pile are covered with Visqueen
1100 Crew began De contaminating of equipment.
1150 TAT ships sample to lab at Fed Ex office in Bradenton FL.
1200 TAT Off site en Route to ATLanta office.

MONDAY 8/14/95

0715 TAT ARRIVED ON SITE. OHM ALREADY PRESENT. (TAT LOCKED KEY IN VEHICLE AT HOTEL.) WEATHER IS FORCASTED TO BE HOT, 90° AND 20% CHANCE OF RAIN.
0900 OHM HAS SET AN EXCLUSION ZONE AND IS PREPARING TO SAMPLE DRUMS. OHM WILL USE AN AIR HAMMER AND CHISEL TO OPEN DRUMS. TO REDUCE THE POSSIBILITY OF SPARKING A STEADY STREAM OF H_2O WILL USED W/THE HAMMER.
OHM WILL ~~TAKE~~ AIR MONITOR EACH DRUM W/ O_2, LEL, OVA AND MICROTIP.
DRUM LOG WILL BE OBTAINED BY TAT WHEN COMPLETED.
0930 TAT PHOTOGRAPHED SITE.
1200 BILL BERRY AND CHARLIE HARE (OHM) CHARLIE HARE DELIVERED SAMPLE BOTTLES TO RM FOR SAMPLING OF DRUMS.
OHM CONTINUES TO CUT THE TOPS OF EXCAVATED DRUMS.
1500 OHM HAS COMPLETED 3 OF 4 ROWS OF DRUMS IN LEVEL "B" PROTECTION TEMP IS 95°/SUNNY. RM IS POSSIBLY GOING TO FINISH AND SECURE SAMPLES BY TOMORROW 8/15/95, MONDAY.

11 area to be sampled



Tues 8/15/95

0650 OHM CREWS PRESENT AND ABOUT TO RESUME YESTERDAY ACTIVITIES. TEMP EXPECTED MID 90'S, 30% CHANCE OF AFTERNOON SHOWERS.

0715 OSC WEBSTER ARRIVED AND WAS BRIEFED ABOUT SITE'S ACTIVITIES BY OHM'S RM.

0900 OHM CONTINUES TO COLLECT SAMPLES FROM DEHEADED DRUM. MOST OF DRUM CONTENTS ARE ROCK-LIKE IN FORM.

0950 JOHN CUSTAS (PROGRAM MAN. ERCS) (OHM) VISITED THE SITE. OHM'S RM TOURED VISITOR ALONG W/ OSC.

1130 TAT LEAVES SITE TO GET EPA VEHICLE SERVICED. (SEARS)

1330 TAT RECEIVED FEDEX PACKAGE (COMPASS) ETC. FROM HOME OFFICE. WHEN TAT RETURNED JAMES HUDSON, OSC, WAS PRESENT ON SITE.

1435 OHM CLEANING SITE IN PREPARATION TO DEMOBE. OSC WILL/IS PLANNING TO RELEASE HALF OF THE CREW TOMORROW 8/16/95.

1600 OSC WEBSTER, HUDSON, AND TAT DEPART FROM SITE. OHM ALSO DEPARTED SITE

- ALL SAMPLES (DRUM) WERE CONSISTANT WITH EXPECTED TYPE OF WASTE. 95% OF DRUM SAMPLES WERE HARD AND VARIED IN COLOR FROM BROWN TO LIME GREEN. SUSPECTED WAS IS STYRENE AND RESINS. SAMPLES WERE

1600 OHM DEMOBED

1600 OSC ARRIVED AFTER PLANE DELAY. TOURED SITE AND DISCUSSED TOMORROWS AGENDA.

1630 OSC, TAT, DEPARTED SITE

DESCRIBED IN DETAIL IN THE LOG NOTES. SAMPLES WE TAKEN IN 33¼ OZ. ~~GLASS~~ GLASS SAMPLE JARS. OHM CONTRACTED THE LAB THAT WILL PERFORM THE ANALYTICAL ON THE DRUM CONTENTS.

0700 TAT ARRIVED ON SITE. OHM CREW ALREADY PRESENT AND PERFORMING DEMOBE ACTIVITIES.

0720 OHM'S R. VANHUGOT & TIM MURPHY DEPARTED SITE TO CONDUCT BUSINESS. CREW MEANWHILE IN CONTINUING TO CLEAN UP SITE.

SAMPLING GRID WILL BE APPROXIMATELY 125'X 120' ~~ft~~ CREATING 20 GRIDS, THUS 20 COMPOSITE SAMPLE AND 3 ADDITIONAL SOIL PILE COMPOSITE SAMPLES. AND 1 WATER (GROUND) WILL ALSO BE TAKEN. WATER SAMPLES WILL BE ANALYZED FOR ACETONE, STYRENE, VOA AND METALS (COBALT AND ARSENIC). SOIL SAMPLES WILL BE ANALYZED FOR. VOA's AND TOTAL METALS

1500 TAT ~~FOSC~~ WEBSTER & HUDSON COMPLETED SAMPLING EVENT (SEE CHAIN OF CUSTODY)

1820 TAT RETURNED TO HOTEL TO COMPLETE SAMPLING TAGGING AND DOCUMENTING.

∴ OHM CREW DEMOBED AT 1900 AND TIM MURPHY AT 1900.

SOME EQUIPMENT STILL PRESENT ON SITE ~~@~~ OSC AGREED THE TAT WILL BE PRESENT WHEN EQUIPMENT IS PICKED-UP.

EQUIPMENT SUCH AS: TRAILOR, AIR TANKS(6) GENERATOR, FAN(816)

ALL TO BE PICKED UP 8/17/95.

Thurs. 8/17/95

0700 TAT ONSITE TO RELEASE EQUIPMENT TO THEIR OWNERS.

1100 ALL EQUIPMENT GONE OFF SITE, OSC HUDSON ACCOMPANIES TAT TO HOTEL TO LOOK OVER SAMPLES BEFORE TAT SHIPPED SAMPLES.

1230 TAT CHECKED-OUT HOTEL TO DEPART BRADENTON.
OSC HUDSON CONTINUED TO DO INSPECTIONS.

1340 TAT DROPPED OF SAMPLES TO BE SHIPPED TO LAB.
TAT HEADED BACK TO ATLANTA.

Monday MARCH 4, 1996

1030 START MEMBERS WRIGHT & DAVIS DEPART FOR BRADENTON, FLORIDA PIER DRUM SITE.

0700 ARRIVES IN BRADENTON, FLORIDA.

~~0800 START departs site to purchase a bronze drum wrench. RSM Buerki and~~

~~0930 START prepares for X to open overpacks and conduct preliminary monitoring.~~

~~0940 Rob with OHM RSM Buerki returns Rob (OHM) page. Loader will be delivered to the site between 8:30-9:30 on Wednesday~~

clear, breezy, high in the low 80s

0700 START MEMBERS WRIGHT AND DAVIS ARRIVED ON SITE. AT APPROXIMATELY 0715 DANIEL L. GREEN, U.S. EPA SPECIAL AGENT ~~FOR~~ ARRIVED TO OVERSEE SITE ACTIVITIES IN CONJUNCTION WITH THE OSC.

0750 OSC Karen Burki arrives @ site. Meeting w/ START to review drums to be sampled.

0755 START departs site for supplies.

0930 START prepares to open overpacks and begin preliminary air monitoring in Level C PPE.

0940 RSM Buerki returns page from Rob Van Houdt (OHM). Loader is to be delivered to the site on Wednesday between 8:30-9:30.

0945 START begins opening overpacks on drums #10, 15, 16, 18, 32, 33, 34 ~~#3~~

1010 RSM Buerki took a photo of the site (#7) Air monitoring with a microtip upwind indicated 0ppm, downwind results were 4-5 ppm.

1020 START prepares sampling containers and prepares for initial sampling in Level B due to high reading on drum #15.

1040 RSM Buerki stations microtip downwind ~~#3~~ for air monitoring. Spiked at 8.9 ppm. Readings are mostly zero.

1100 START began sampling. Microtip clock is one hour fast. Drum #15 is being sampled first (photos #8 & #9 on the roll). Microtip spiked to 35 ppm down wind approximately 30 ft.)

1120 START began sampling drum #18.

1125 Two representatives from TV40 arrived outside the site. They have not been granted access by the private property owner and were asked by Dan Green to leave. They left.

1135 RSM Buerki shot photos of drum #18 samples (photo #10) and drum #10 sampling (photo #11).

1150 Peter Mitchell arrived outside the site. He represents Manatee County Government, Environmental Management Department.

1200 START resumed sampling on drum #16 (photo #12).

1207 Dan Green departed the site.

1215 START began sampling drum #32. (photo #13).

1220 START began sampling drum #33.

1235 START began sampling drum #34. There was only about an inch or so of liquid outside the crushed drum inside the overpack. The contents of the drum were dry and looked like sand according to the START members. The microtip was moved into the hot zone to monitor drum #34. The reading was 1.3 ppm on the liquid and zero on the solid. Drum #34 was not sampled.

1245 START exited the hot zone.
1300 RSM Buerki tried to page Dan Green. START took a photo of the contents of drum #34 (photo #17).
1310 RSM Buerki took photos of samples (Sample 15/Photo #18, sample 16/photo #19, sample 18/Photo #20, sample 32/photo #21, sample 33/photo #22, sample 10/photo 23).
1320 RSM Buerki went to pick up ice and site fluids.
1350 RSM Buerki returned to the site. START members are preparing tags.
1510 START completed tagging and bagging samples.

Time	DRUM ID #	SAMPLE ID #
	16	PD-100-CS
	32	PD-101-CS
	10	PD-102-CS
	15A	PD-103-CS
	15B	PD-104-CS
	18	PD-105-CS
	33A	PD-106-CS
	33B	PD-107-CS

PD = PIER DRUM
CS = CRIMINAL SAMPLE

06 March 1996 (Wednesday)

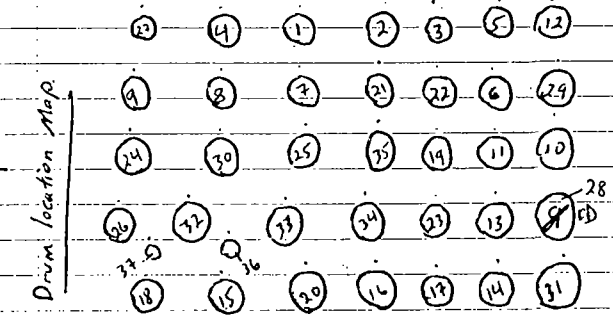
0800 START David arrives @ site. 2 member crew from OHM, OSC Buerki, + Dan Green on site. Weather: clear sky, high of 80°F expected.

0830 OHM: attempting to replace/resecure 2 overpack tops on drums sampled 03/08/96. Unable to resecure 2 overpacks. PCT truck from Claremont/Orlando OHM shop ordered ETA = 1200.

0845 Press arrives @ site. OSC Buerki speaks w/ press. Expended PPE being packed into 55g drums. Press escorted off property. RM has instructed PCT truck to bring 110g overpacks (4) to overpack the non-DOT shippable drums

0930 Hertz arrives to deliver back loader.
K. Buerki returns from interview w/ press @ road entrance.
Kathy Winkler
Pat Daughtry
News 40
923-8840 ext. 2136
Press informed about site history.

Drum location Map



OP #17 = MT drum carcass 36 & 37 = 55 g.
#30 = "soil"

1000 Operator spreading piles of dirt. START photographs.

1100 operator on break.

1110 Property representative (Bill Berry) arrives @ site. Requests remaining dirt be spread in a few low areas (including dirt rd, low area under barn). B. Berry enters site (inside fenced area). Operator resumes spreading dirt piles generated during drum excavation.

1145 START departs site (lunch)

1215 START returns to site. OHM PCT truck has arrived w/ overpacks (110 g).

1230 OSC informs START PCT truck arrived @ 1210. OSC departs site (lunch).

1300 OSC returns to site. OHM on break.

1400 Site clean-up ongoing. Awaiting Laidlaw truck for T&D. RM departs site w/ tarps used to cover dirt piles. Being taken to local dump.

1420 OHM pulling up phone lines. OSC informs START that Laidlaw is being delayed by a tanker spill on the highway.

1450 Laidlaw truck + 2 employees arrive @ site. US DOT #324839. Laidlaw did not bring truck large enough to accommodate all drums on site. Laidlaw did not know the drums were overpacks.

1500 Begin placing stickers on drums according to Bulking group.

1522 413 total drums on site. A larger Laidlaw truck is ordered + en route. OHM begins overpacking into 110 g drums #12, 29, 34, & 18.

1600 overpacking drum 18 into 110g. Small amount of product leak (≈ 0.3 g) onto ground. Laidlaw personnel awaiting completion of overpacking. Drum 18 is last on to be overpacked.

1610 overpacking completed. Awaiting bigger truck.

1700 Continue to wait for larger Laidlaw truck.

1720 Truck arrives. Tractor trailer w/o lift on back. Transport International Pool (TIP) trailer box #233167. 1 driver.

1730 Begin loading drums onto small truck using using lifter mounted on end.

1810 Small truck fully loaded. Truck backed up to back of tractor trailer. Drums being transferred to tractor trailer.

1825 Finish 1st round of transferring to tractor trailer. Begin reloading drums onto small truck.

1900 Remaining drums all loaded onto small truck.

* OHM RM requests a copy of manifests paperwork. OHM departs site.

1915 All drum loaded onto tractor trailer. Flam. Liq. class 3 placards on all sides of truck. Too dark to photograph.

1920 2 Laidlaw trucks + 3 personnel depart site.

1930 OSC + START lock gate + depart site.

Kelly Davis

07 March 1996 (Thursday)

0900 START arrives @ site. Meet w/ OSC. Walk site + photograph all work area. Receive roll of film from EPA to develope.

0940 site tour completed. All personnel off site.

APPENDIX C

PHOTOLOG

(32 Sheets)

PHOTO NO. 1
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of the drums staged by Floridia Department of Environmental of Protection		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 7, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 2
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of ERCS excavating area of suspected drum burial		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 3
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of unearthed drum		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 4
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of backhoe clearing soil from around drum		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 5
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of backhoe retreiving drum from excavation		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 6
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of the 25 recoverd drums staged near the excavation		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 7
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of rubber-tired forklift positioning a pump for dewatering the excavtion		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 8
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of an excavated drum and three 85-gallon overpack drums		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 9
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of 85-gallon overpack drums to be used for containing the excavated drums		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 8, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 10
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of ERCS using the backhoe to overpack the excavated drum into the 85-gallon drum		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 10, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 11
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	ERCS preparing an area to be used to stage the overpacked drums		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 10, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 12
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of drum staging area		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 10, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 13
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of ERCS using a sling attached to the backhoe to relocate the overpacked drums		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 11, 1995
Photographer:	R.Starks, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 14
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of staged overpacked drums; end of Phase I		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	August 17, 1995
Photographer:	J.Wright, TAT	**Witness:**	J.Webster, OSC

PHOTO NO. 15
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of START conducting air monitoring		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 16
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of START collecting a drum sample from Drum 15		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 17
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of START collecting a drum sample from Drum 16		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 18
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of samples collected from Drums 10 and 16		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 19
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of sample collected from Drum 32		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 20
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of sample collected from Drum 18		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 21
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of dented drum in overpack Drum 34		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 5, 1996
Photographer:	K.Buerki, RSM	**Witness:**	START

PHOTO NO. 22
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of staged drums containing used PPE and visqueen		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 23
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	ERCS and Laidlaw placarding drums for transportation		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 24
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of drums staged for transportation to an off-site disposal facility		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 25
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of a drum being overpacked		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 26
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of overpacked drums being loaded onto lift-gate of small truck		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 27
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of drums being transfered from small truck to larger truck; large truck did not have a lift-gate		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 28
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of ERCS uncovering stockpiled soil; analyitcal results indicated the soil was not contaminated		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 29
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of stockpiled soil being spread across site		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 6, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 30
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of site after soil has been spread		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 7, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 31
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of previous drum staging area		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 7, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

PHOTO NO. 32
OFFICIAL PHOTOGRAPH
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:	View of former drum burial area at project completion		
Location:	Pier Property Drum Site Bradenton, Manatee County, Florida		
Orientation:	NA		
TDD Number:	04-9602-0003	**Date:**	March 7, 1996
Photographer:	K.Davis, START	**Witness:**	K.Buerki, RSM

APPENDIX D

TABLE 1 - FINAL GROUNDWATER FIELD PARAMETERS
TABLE 2 - GROUNDWATER ELEVATION DATA
TABLE 3 - CHEMICAL CATEGORIZATION SCREENING
TABLE 4 - DRUM SAMPLE COMPOSITE SCHEME
TABLE 5 - SUMMARY OF RESULTS FOR DRUM LIQUID COMPOSITE SAMPLES
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(11 Sheets)

TABLE 1
FINAL GROUNDWATER FIELD PARAMETERS
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

Well ID	Date Installed	Date developed and Sampled	Parameters				
			pH	Temperature (C)	Dissolved Oxygen (ppm)	Conductivity (uS/cm)	Turbidity (NTU)
MW-N	1/11/95	1/11/95	4.58	18.7	2.3	658	37.1
MW-S	1/11/95	1/11/95	4.68	19.1	2.2	247	7.8
MW-E	1/11/95	1/11/95	4.97	18.8	3.3	351	48.9
MW-W	1/11/95	1/11/95	4.52	17.8	0.7	741	12

NTU = Nephelometric Turbidity Units
μS = micro Siemens (10 -6 Siemens)

TABLE 2
GROUNDWATER ELEVATION DATA
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

LOCATION	SURFACE ELEVATION (ft)	DEPTH TO WATER (ft)	GROUNDWATER ELEVATION (ft)
MW–N	99.71	1.88	97.83
MW–S	100.45	2.58	97.87
MW–E	99.63	1.91	97.72
MW–W	100.75	2.81	97.94

All elevations are relative to the site.

TABLE 3
CHEMICAL CATEGORIZATION SCREENING
PIER DRUM SITE
BRADENTON, FLORIDA
10 JANUARY 1995

ANALAB Sample Number	REAC Sample Number	Florida DEP Number	Drum Type	Liquid	Solid	Flash	pH	H2O Solubility	Reactivity	Specific Gravity	Chlor-Oil-Test	Quanti-Chlor-Test	Spill-FYTER
601	REAC#1	01	17E		X	FLASH	5	P	N-C	N/A	N	N/A	N/A
602	REAC#2	02	17E	X		NO-FLASH	7	P	N-C	S&F	+	840-2400 ppm	4,5,6
603	REAC#3	03	17E		X	NO-FLASH	7	N	N-C	S	N/A	N/A	N/A
604	REAC#4	04	17E	X		NO-FLASH	7	T	N-C	N/A	N/A	N/A	N/A
605	REAC#5	05	17E		X	NO-FLASH	N/A	N	N-C	F	N/A	N/A	N/A
606	REAC#6	06	17E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
607	REAC#7	07	17E		X	NO-FLASH	7	N	N-C	N/A	N/A	N/A	N/A
608	REAC#8	08	17E		X	NO-FLASH	7	P	N-C	S	N/A	N/A	N/A
609	REAC#9	09	17E	X	X	NO-FLASH	7	T	Cloudy White	N/A	N/A	N/A	N/A
610	REAC#10	10	17E		X	NO-FLASH	7	N	N-C	S	N/A	N/A	N/A
611	REAC#11	11	17E		X	FLASH	7	N	N-C	S	N/A	N/A	N/A
612	REAC#12	12	17E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
613	REAC#13	13	17E		X	NO-FLASH	7	N	N-C	N/A	N/A	N/A	N/A
614	REAC#14	14	17E		X	NO-FLASH	7	N	N-C	F	N/A	N/A	N/A
615	REAC#15	15	17E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
616	REAC#16	16	17E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DEP = Department of Environmental Protection
N/A = Non Applicable
N-C = No Change
S = Sinks, F = Floats
4 = Organic Solvent, Petroleum, Distiate Risk; 5 = Iodine, Bromine, Chlorine Risk
T = Total Solubility; P = Parcial Solubility; N = No Solubility
NOTE: Drums #6, #15, #16 could not be opened, and drum #12 was determined to have the same contents as drum #10.

TABLE 4
DRUM SAMPLE COMPOSITE SCHEME
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY, 1995

Composing Scheme			
Composite ID	**Original Sample ID**	**Sample Phase**	**Analysis**
00912	REAC #9*	liquid	Disposal & TCL/TAL
00913	REAC #2	liquid	Disposal & TCL/TAL
00914	REAC #4	liquid	Disposal & TCL/TAL
00911	REAC #1,8,9*,11	solid	TCL (TCLP)
00915	REAC #5	solid	TCL (TCLP)
00916	REAC #3,7,10,13,14	solid	TCL (TCLP)

* Drum #9 had both a liquid and a solid layer
Disposal Parameters include: % moisture, % sulfur, % chloride, BTU, Ash content
TCL – refers to the Target Compound List for VOC, BNA, and Pest/PCB
TAL – refers to the Target Analyte List for metals

TABLE 5
SUMMARY OF RESULTS FOR DRUM LIQUID COMPOSITE SAMPLES
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE ID	00912		00913		00914	
SAMPLE LOCATION	REAC#9		REAC#2		REAC#4	
PARAMETER	Conc µg/L	MDL µg/L	Conc µg/L	MDL µg/L	Conc µg/L	MDL µg/L
METALS						
Aluminum	690	100	ND	100	25000	100
Arsenic	ND	10	ND	10	22	10
Barium	29	10	23	10	240	10
Cadmium	7.0	4.0	34	4.0	ND	4.0
Calcium	410*	0.20*	400*	0.20*	37*	0.20*
Chromium	80	10	120	10	47	10
Cobalt	7300	10	40000	10	900	10
Copper	520	10	150	10	660	10
Iron	18*	0.05*	360*	0.05*	310*	0.05*
Lead	61	10	1200	10	38	10
Magnesium	8000	1000	8000	1000	10000	1000
Manganese	3000	4.0	5700	4.0	1500	4.0
Nickel	66	20	850	20	30	20
Potassium	12000	4000	35000	4000	12000	4000
Sodium	21000	1000	71000	1000	29000	1000
Vanadium	ND	10	ND	10	32	10
Zinc	1900	10	3600	10	330	10
PEST/PCB's						
a-BHC	0.16	0.11	ND	0.11	ND	0.11
Aldrin	ND	0.11	0.18	0.11	ND	0.11
VOC's						
Acetone	130000*	10*	230000*	10*	14000*	20*
2-Butanone	ND	20000	ND	20000	89000	4000
Benzene	11000	5000	12000	5000	ND	1000
Toluene	5400	5000	4100J	5000	9600	1000
Ethylbenzene	21000	5000	88000	5000	37000	1000
p&m Xylene	16000	5000	51000	5000	ND	1000
o-Xylene	8400	5000	ND	5000	800J	1000
Styrene	1200000	5000	16000000	5000	26000	1000
Isopropylbenzene	6500	5000	21000	5000	ND	1000
n-Propylbenzene	7600	5000	17000	5000	ND	1000
1,2,4-Trimethylbenzene	17000	5000	23000	5000	45000	1000
Naphthalene	3400J	5000	ND	5000	7200	1000

MDL = Method Detection Limit
ND = Not Detected
* = Concentration and MDL reported in milligram per liter (mg/L)
NOTE: Mercury analysis was not performed due to insufficient sample size.

TABLE 6
RESULTS OF ANALYSIS FOR DISPOSAL CHARACTERISTICS ON DRUM LIQUIDS
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

Parameter	Composite ID		
	REAC # 9 ID # 00912	REAC # 2 ID # 00913	REAC # 4 ID # 00914
Heat Value (BTU/lb)	3379	5470	+50
Percent Ash Content	0.2	0.26	+0.1
Percent Chloride	0.33	0.34	0.44
Percent Sulfur	+0.1	+0.10	0.10
Percent Moisture Content	53.0	9.4	89.6

TABLE 7
SUMMARY OF TCLP ANALYSES RESULTS FOR DRUM SOLIDS
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE NUMBER	00911		00915		00916	
SAMPLE LOCATION	REAC# 1,8,9,11		REAC#5		REAC#3,7,10,13,14	
PARAMETER	CONC µg/L	MDL µg/L	CONC µg/L	MDL µg/L	CONC µg/L	MDL µg/L
BNA's						
Benzyl Alchohol	1000	20	83	20	150	20
Benzoic Acid	120	20	270	20	4800E	20
Di-n-butyl phthalate	40	20	34	20	9J	20
phenol	110	20	17J	20	34	20
2-Methylphenol	860	20	ND	20	ND	20
METALS						
Cadmium	167	80	ND	4	ND	4
Calcium	435000	2500	2800	250	1290	250
Cobalt	470	250	ND	250	ND	250
Copper	ND	50	ND	50	50	50
Iron	2190	200	ND	200	760	200
Lead	102	20	7.9	5	6.1	5
Magnesium	4300	500	300	50	170	50
Manganese	350	100	ND	100	ND	100
Potassium	4200	1000	1580	100	570	100
Sodium	3100000	500000	2300000	500000	1800000	500000
Zinc	440	50	210	50	130	50
PEST/PCB's						
BHC-delta	0.6	0.18	ND	0.11	ND	0.25
Endosulfan-alpha	ND	0.18	ND	0.11	1.0	0.25
VOC's						
Acetone	1300000D	5000	11000J	5000	ND	2500
Styrene	6100	5000	130000	2000	40000	2500

MDL = Method Detection Limit
ND = Not Detected
E = Exceeds calibration range, estimated value
J = Detected Below Detection Limit

TABLE 8
SUMMARY OF GROUNDWATER WELL SAMPLE RESULTS
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE NUMBER		00636		00641		00635		00634		00637	
SAMPLE LOCATION		MW-S-DUP		MW-N		MW-S		MW-W		MW-E	
	MCL	CONC	MDL	CONC	MDL	CONC	MDL	CONC	MDL	CONC	MDL
PARAMETER	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BNA's											
Di-n-butylphthalate	NEL	1J,B	10.0	50B	11.0	2J,B	10.0	66B	11.0	1J,B	11.0
METALS (UNFILTERED)											
Aluminum	NEL	1200	40.0	16000	40	1400	40	7400	40	10000	40
Arsenic	50	3.5	2.2	12.0	2.2	3.0	2.2	10.0	2.2	19.0	2.2
Barium	2000	18	4.0	44.0	4.0	18.0	4.0	30.0	4.0	39.0	4.0
Calcium	NEL	4000	100	2300	100	4100	100	27000	100	5800	100
Chromium	100	ND	2.8	16.0	2.8	ND	2.8	7.6	2.8	13.0	2.8
Iron	NEL	9400	10	4100	10	9200	10	6600	10	4500	10
Lead	15	ND	2.2	3.0	2.2	ND	2.2	ND	2.2	3.2	2.2
Magnesium	NEL	4200	500	1400	500	4300	500	13000	500	5800	500
Manganese	NEL	4	2.0	5.0	2.0	3.0	2.0	6.0	2.0	8.0	2.0
Potassium	NEL	ND	2000	ND	2000	ND	2000	2100	2000	ND	2000
Sodium	*160000	29000	500	3800	500	30000	500	75000	500	40000	500
Vanadium	NEL	ND	5.0	25.0	5.0	ND	5.0	12.0	5.0	11.0	5.0
Zinc	NEL	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0
METALS (FILTERED)											
Aluminum	NEL	1000	40	3400	40	1100	40	3500	40	4100	40
Arsenic	50	3.3	2.2	10.0	2.2	2.8	2.2	10.0	2.2	15.0	2.2
Barium	2000	17	4	4.0	4.0	17.0	4.0	10.0	4.0	9.0	4.0
Calcium	NEL	4000	100	1700	100	4100	100	28000	100	6000	100
Chromium	100	ND	2.8	ND	2.8	ND	2.8	3.8	2.8	3.5	2.8
Iron	NEL	9100	10	1700	10	9200	10	5800	10	3600	10
Lead	15	ND	2.2	ND	2.2	ND	2.2	ND	2.2	ND	2.2
Magnesium	NEL	4100	500	870	500	4200	500	13000	500	5600	500
Manganese	NEL	3	2.0	ND	2.0	3.0	2.0	3.0	2.0	5.0	2.0
Potassium	NEL	ND	2000	ND	2000	ND	2000	ND	2000	ND	2000
Sodium	*160000	29000	500	3000	500	30000	500	76000	500	40000	500
Vanadium	NEL	ND	5.0	9.0	5.0	ND	5.0	7.0	5.0	ND	5.0
Zinc	NEL	ND	5.0	ND	5.0	ND	5.0	5.0	5.0	ND	5.0
PEST/PCB's	NA	No Analytes Were Detected.									
VOC's											
Acetone	NEL	6.2	2.0	3.4	2.0	7.5	2.0	3.7	2.0	8.0	2.0
Methyl-tertiary-butylether	NEL	ND	1.0	14.0	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1000	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.2	1.0

MCL = Maximum Contaminant Level
NOTE: All established MCLs reported indicate Florida State and Federal Regulations.
NEL = No Established MCL
*Florida State Department of Protection MCL
MDL = Method Detection Limit
ND = Not Detected
B = Compound found in blank
J = Detected below detection limit

TABLE 9
SUMMARY OF SURFACE WATER SAMPLE RESULTS
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE NUMBER		00639		00638	
SAMPLE LOCATION		W–PIT		N–PIT	
	MCL	CONC	MDL	CONC	MDL
PARAMETER	µg/L	µg/L	µg/L	µg/L	µg/L
BNA's					
Di–n–butylphthalate	NEL	47B	10	38B	11
METALS (UNFILTERED)					
Aluminum	NEL	2000	40	2300	40
Arsenic	50	10.0	2.2	30	2.2
Barium	2000	9.0	4.0	20	4
Calcium	NEL	12000	100	17000	100
Chromium	100	3.6	2.8	8.6	2.8
Iron	NEL	1600	10	950	10
Lead	15	ND	2.2	ND	2.2
Magnesium	NEL	4600	500	6500	500
Manganese	NEL	26.0	2.0	18	2.0
Potassium	NEL	2300	2000	4900	2000
Sodium	*160000	30000	500	25000	500
Vanadium	NEL	8.0	5.0	7	5
Zinc	NEL	56.0	5.0	27	5
METALS (FILTERED)					
Aluminum	NEL	1400	40	870	40
Arsenic	50	9.6	2.2	29	2.2
Barium	2000	7.0	4.0	10	4
Calcium	NEL	9800	100	16000	100
Chromium	100	2.9	2.8	4.5	2.8
Iron	NEL	1100	10	560	10
Lead	15	ND	2.2	ND	2.2
Magnesium	NEL	3600	500	5800	500
Manganese	NEL	21.0	2.0	13	2
Potassium	NEL	ND	2000	4400	2000
Sodium	*160000	23000	500	23000	500
Vanadium	NEL	6.0	5.0	ND	5.0
Zinc	NEL	45.0	5.0	25	5.0
PEST/PCB's	NA	No Analytes Were Detected.			
VOC's					
Acetone	NEL	7.3	2.0	ND	2

MCL = Maximum Contaminant Level
NOTE: All MCL reported are for Florida State and Federal Regulations unless otherwise noted.
NEL = No Established MCL
*Florida State Department of Protection MCL
MDL = Method Detection Limit
ND = Not Detected
B = Compound found in blank
J = Detected below detection limit

TABLE 10
SUMMARY OF RESULTS FOR SEDIMENT SAMPLES
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE NUMBER	A00642		A00643		A00644	
SAMPLE LOCATION	SED–S		SED–N		SED–E	
PARAMETER	CONC µg/Kg	MDL µg/Kg	CONC µg/Kg	MDL µg/Kg	CONC µg/Kg	MDL µg/Kg
BNA's						
Benzyl Alcohol	ND	407	ND	398	ND	402
Diethylphthalate	87J	407	ND	398	ND	402
Di–n–butylphthalate	2765B	407	3029B	398	1581B	402
Butylbenzylphythalate	179J,B	407	156J,B	398	ND	402
Bis(2–Ethylhexyl)phthalate	338J,B	407	ND	398	39J,B	402
METALS						
Aluminum	660000	9400	470000	8900	330000	9300
Barium	4700	3800	3600	3600	ND	3700
Calcium	290000	47000	94000	45000	61000	47000
Chromium	1400	800	ND	700	ND	700
Iron	200000	8400	150000	8000	4300	8400
Sodium	69000	47000	63000	45000	93000	47000
Zinc	5400	1900	ND	1800	3400	1900
PEST/PCB's	No Analytes Were Detected					
VOC's						
Acetone	207	2.5	ND	2.5	ND	2.5
Methyl–tertiary–butylether	ND	1.3	ND	1.2	ND	1.3
Toluene	12	1.3	0.9J	1.2	ND	1.3
Ethylbenzene	670	1.3	ND	1.2	ND	1.3
o–Xylene	2.4	1.3	ND	1.2	ND	1.3
Styrene	2.8	1.3	ND	1.2	ND	1.3
Isopropylbenzene	2.1	1.3	ND	1.2	ND	1.3
n–Propylbenzene	1.6	1.3	ND	1.2	ND	1.3
1,2,4–Trimethylbenzene	3.3	1.3	ND	1.2	ND	1.3

MDL = Method Detection Limit
ND = Not Detected
J = Compound Detected Below Method Detection Limit

TABLE 11
SUMMARY OF TCLP ANALYSES RESULTS IN SEDIMENT SAMPLES
PIER DRUM SITE
BRADENTON, FLORIDA
JANUARY 1995

SAMPLE NUMBER	A00525		A00526		A,D00527	
SAMPLE LOCATION	SED–S		SED–N		SED–E	
	Conc	MDL	Conc	MDL	Conc	MDL
PARAMETER	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
BNA's						
Benzyl Alcohol	16	13	17	11	15J	16
Diethylphthalate	5J	13	2J	11	ND	16
Di–n–butylphthalate	56B	13	45B	11	91B	16
Butylbenzylphythalate	ND	13	4J,B	11	2J,B	16
Bis(2–Ethylhexyl)phthalate	12J,B	13	11B	11	15J,B	16
METALS						
Arsenic	6.3	2.2	ND	2.2	ND	2.2
Barium	930	4.0	28	4.0	11	4.0
Chromium	8.0	5.0	ND	5.0	ND	5.0
Lead	3.2	2.2	ND	2.2	ND	2.2
PEST/PCB's	No Analytes Were Detected.					
VOA's	No Analytes Were Detected.					

MDL = Method Detection Limit
ND = Not Detected
J = Detected Below Detection Limit
B = Detected in Blank Sample

APPENDIX E

AUGUST 29 AND 30, 1995 ANALYTICAL REPORT

(263 Sheets)

WESTON® MANAGERS DESIGNERS/CONSULTANTS
Building 300, Suite 325
1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208
404-352-4147 • Fax 404-352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: FILE

FROM: Paula C. MacLaren
Analytical Coordinator

THRU: W. Scott Butterfield
TATL, Region IV

SUBJECT: Pier Drum Site Analytical Data Part I
TDD# 04-9508-L005-0536

DATE: 29 August 1995

Weston Environmental Metrics, Inc. analyzed 2 water samples taken at the Pier Drum Site on 11 August 1995 for the following parameters:

volatiles
RCRA Metals
cobalt

The analytical report was received within the required 2-day time period.

All sample analysis hold times were met.

The laboratory blank showed no contamination of the analytical processes.

All sample volatile surrogate recoveries were within method limits. All laboratory control sample percent recoveries were within the QA/QC recommendation of 80% to 120%.

An arsenic, lead and selenium matrix spike was performed on sample PD-21. Arsenic showed a slightly elevated percent recovery (133%) above the QA/QC guideline of 80% to 120%.

Selenium showed a lower recovery of 49.9%, while lead analysis showed 100% recovery. A metals laboratory control sample showed all component percent recoveries within the QA/QC guidelines thereby verifying the analytical processes.

A summary of the sample data can be found on the following page.

cc. Jim Webster
John Wright

PIER DRUM SITE
ANALYTICAL DATA

WATER SAMPLES

VOLATILES (ug/L)

SAMPLE ID	PD-20	FB-01
LOCATION	Excavation Ditch	Field Blank
Ethylbenzene	20	ND
Styrene	43	ND
Toluene	170	ND

RCRA METALS/ COBALT (ug/L)

SAMPLE ID	PD-21	FB-02
LOCATION	Excavation Ditch	Field Blank
Arsenic	53/50*	ND
Barium	71	ND
Cadmium	ND	ND
Chromium	21	ND
Cobalt	20	ND
Lead	22/21*	ND
Mercury	ND	ND
Selenium	4.7/ND*	ND
Silver	ND	ND

Notes: ND - Not detected
* - Duplicate analysis

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Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
708-534-5200 • Fax 708-534-5211

RECEIVED
AUG 17 1995

August 16, 1995

Ms. Paula MacLaren
Roy F. Weston, Inc.
1575 Northside Drive NW
Building 300, Suite 325
Atlanta, GA 30318-4208

RE: Pier Drum Site
RFW Lot 9508G529

Dear Ms. MacLaren:

Enclosed is the Analytical Report for the Project and RFW Lot Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

Weston Environmental Metrics, Inc.

Eric A. Lang
Project Manager

sj

Enclosures

Approved By:

Michael J. Healy SJ
Vice President/Laboratory Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
T	Compound was found in the TCLP extraction blank and the sample
U	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Weston laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character WESTON laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate analyses
RRF –	Relative response factor
RT	Retention time
RTW	Retention time widow
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. WESTON code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

Revised 12/09/94

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

Nº 123787

Roy F Weston 1575 North Side DR NW 404-352-4147

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME	PROJECT LOCATION
Pier Drum	Bradenton Florida

PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.
1359	John Wright Ronald Starks	404-352-4147

CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	VOA	TOTAL Metals	VOA	T Metals				REMARKS
1	PD-20	8/11/95	0730		X	Water Sample Collected from excavation Ditch	3	+							Sample Preserved w/ HCL
2	PD-21		0734				1		X						Sample Preserved with HNO3
3	FB-01		0720			Field Blank	3			X					L.H 8.12.95
4	FB-02		0720			Field Blank	1				X				Preserved with HCL
5	5211D				5										
6															
7															
8															
9															
10															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1 Cooler	R Starks 8/11/95 1200 hrs	L.H [illegible]	8.12.95	12:02
2					
3					
4					

REMARKS: Fast turnaround

SAMPLER'S SIGNATURE: Ronald W. Starks

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

ABORATORY CHRONICLE

RFW LOT # :9508G529

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
PD-21						
SILVER, TOTAL	002	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
ARSENIC, TOTAL	002	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
ARSENIC, TOTAL	002 REP	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
ARSENIC, TOTAL	002 MS	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
BARIUM, TOTAL	002	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
CADMIUM, TOTAL	002	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
COBALT, TOTAL	002	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
CHROMIUM, TOTAL	002	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
MERCURY, TOTAL	002	W	95HG426	08/11/95	08/12/95 08/14/95	08/15/95
LEAD, TOTAL	002	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
LEAD, TOTAL	002 REP	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
LEAD, TOTAL	002 MS	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
SELENIUM, TOTAL	002	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
SELENIUM, TOTAL	002 REP	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
ELENIUM, TOTAL	002 MS	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
FB-02						
SILVER, TOTAL	004	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
ARSENIC, TOTAL	004	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
BARIUM, TOTAL	004	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
CADMIUM, TOTAL	004	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
COBALT, TOTAL	004	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
CHROMIUM, TOTAL	004	W	95GI974	08/11/95	08/12/95 08/14/95	08/15/95
MERCURY, TOTAL	004	W	95HG426	08/11/95	08/12/95 08/14/95	08/15/95
MERCURY, TOTAL	004 REP	W	95HG426	08/11/95	08/12/95 08/14/95	08/15/95
MERCURY, TOTAL	004 MS	W	95HG426	08/11/95	08/12/95 08/14/95	08/15/95
LEAD, TOTAL	004	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
SELENIUM, TOTAL	004	W	95GF083	08/11/95	08/12/95 08/14/95	08/14/95
LAB QC:						
SILVER LABORATORY	LC1 BS	W	95GI974	N/A	N/A 08/14/95	08/15/95
BARIUM LABORATORY	LC1 BS	W	95GI974	N/A	N/A 08/14/95	08/15/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G529

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
CADMIUM LABORATORY	LC1 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
COBALT LABORATORY	LC1 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
CHROMIUM LABORATORY	LC1 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
SILVER LABORATORY	LC2 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
BARIUM LABORATORY	LC2 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
CADMIUM LABORATORY	LC2 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
COBALT LABORATORY	LC2 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
CHROMIUM LABORATORY	LC2 BS	W	95GI974	N/A	N/A	08/14/95 08/15/95
SILVER, TOTAL	MB1	W	95GI974	N/A	N/A	08/14/95 08/15/95
BARIUM, TOTAL	MB1	W	95GI974	N/A	N/A	08/14/95 08/15/95
CADMIUM, TOTAL	MB1	W	95GI974	N/A	N/A	08/14/95 08/15/95
COBALT, TOTAL	MB1	W	95GI974	N/A	N/A	08/14/95 08/15/95
CHROMIUM, TOTAL	MB1	W	95GI974	N/A	N/A	08/14/95 08/15/95
ARSENIC LABORATORY	LC1 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
LEAD LABORATORY	LC1 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
SELENIUM LABORATORY	LC1 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
ARSENIC LABORATORY	LC2 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
LEAD LABORATORY	LC2 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
SELENIUM LABORATORY	LC2 BS	W	95GF083	N/A	N/A	08/14/95 08/14/95
ARSENIC, TOTAL	MB1	W	95GF083	N/A	N/A	08/14/95 08/14/95
LEAD, TOTAL	MB1	W	95GF083	N/A	N/A	08/14/95 08/15/95
SELENIUM, TOTAL	MB1	W	95GF083	N/A	N/A	08/14/95 08/14/95
MERCURY LABORATORY	LC1 BS	W	95HG426	N/A	N/A	08/14/95 08/15/95
MERCURY LABORATORY	LC2 BS	W	95HG426	N/A	N/A	08/14/95 08/15/95
MERCURY, TOTAL	MB1	W	95HG426	N/A	N/A	08/14/95 08/15/95

SIGNATURE _____ DATE 8/16/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANICS CASE NARRATIVE

Client: TAT-Pier Drum Site
RFW#: 9508G529
SDG#: N/A

W.O.#: 00000-000-000-0000
Date Rec'd: 08/12/95

1. This narrative covers the analysis of 2 water samples for the following metals:

   ICP ..... Ag,Ba,Cd,Co,Cr
   GFAA ..... As,Pb,Se
   Cold vapor. Hg

   Method Ref: USEPA SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below reporting limits.

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. Two Laboratory Control Samples (LCS) were prepared with each digestion batch. Both results were within the 80-120% control limits.

8. GFAA metals and Mercury:
   All Matrix Spike recoveries were within the 75-125% control limits except for:

9508G529-002	As	133.0%	9508G529-004	Hg	69.6%
	Se	49.9			

9. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits.

10. ICP metals:
    The matrix spike recovery and duplicate analysis for the preparation batch which contained these samples was performed on an alternate sample from another delivery group.

Mani S. Iyer
Metals Section Manager

8/16/95
Date

Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

METALS METHODS

SOW	____ ILM03.0				
Aluminum	____ SW846 6010	____ EPA 200.7			
Antimony	____ SW846 6010	____ EPA 200.7	____ SW846 7041	____ EPA 204.2	
Arsenic	____ SW846 6010	____ EPA 200.7	✓ SW846 7060	____ EPA 206.2	
Barium	✓ SW846 6010	____ EPA 200.7			
Beryllium	____ SW846 6010	____ EPA 200.7			
Boron	____ SW846 6010	____ EPA 200.7			
Cadmium	✓ SW846 6010	____ EPA 200.7	____ SW846 7131	____ EPA 213.2	
Calcium	____ SW846 6010	____ EPA 200.7			
Chromium	✓ SW846 6010	____ EPA 200.7	____ SW846 7191	____ EPA 218.2	
Cobalt	✓ SW846 6010	____ EPA 200.7			
Copper	____ SW846 6010	____ EPA 200.7	____ SW846 7211	____ EPA 220.2	
Iron	____ SW846 6010	____ EPA 200.7			
Lead	____ SW846 6010	____ EPA 200.7	✓ SW846 7421	____ EPA 239.2	
Lithium	____ SW846 6010	____ EPA 200.7			
Magnesium	____ SW846 6010	____ EPA 200.7			
Manganese	____ SW846 6010	____ EPA 200.7			
Mercury	✓ SW846 7470	____ EPA 245.1			
Mercury	____ SW846 7471	____ EPA 245.5			
Molybdenum	____ SW846 6010	____ EPA 200.7			
Nickel	____ SW846 6010	____ EPA 200.7			
Potassium	____ SW846 6010	____ EPA 200.7			
Selenium	____ SW846 6010	____ EPA 200.7	✓ SW846 7740	____ EPA 270.2	
Silicon	____ SW846 6010	____ EPA 200.7			
Silver	✓ SW846 6010	____ EPA 200.7	____ SW846 7761	____ EPA 272.2	
Sodium	____ SW846 6010	____ EPA 200.7			
Strontium	____ SW846 6010	____ EPA 200.7			
Thallium	____ SW846 6010	____ EPA 200.7	____ SW846 7841	____ EPA 279.2	
Tin	____ SW846 6010	____ EPA 200.7			
Titanium	____ SW846 6010	____ EPA 200.7			
Vanadium	____ SW846 6010	____ EPA 200.7			
Zinc	____ SW846 6010	____ EPA 200.7			

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Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

RE: PD-21
Project # 00000-000-000-0000
Lab ID: 9508G529-002
Sample Date: 08/11/95
Date Received: 08/12/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.053	mg/L	0.010
Barium, Total	0.071	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020	mg/L	0.020
Chromium, Total	0.021	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.022	mg/L	0.0020
Selenium, Total	0.0047	mg/L	0.0020

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

RE: FB-02
Project # 00000-000-000-0000
Lab ID: 9508G529-004
Sample Date: 08/11/95
Date Received: 08/12/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.0020 u	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.0020 u	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G529

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	95GI974-MB1	Silver, Total	0.010	u	mg/L	0.010
		Barium, Total	0.050	u	mg/L	0.050
		Cadmium, Total	0.010	u	mg/L	0.010
		Cobalt, Total	0.020	u	mg/L	0.020
		Chromium, Total	0.020	u	mg/L	0.020
Blank 1	95GF083-MB1	Arsenic, Total	0.0020	u	mg/L	0.0020
		Lead, Total	0.0020	u	mg/L	0.0020
		Selenium, Total	0.0020	u	mg/L	0.0020
Blank 1	95HG426-MB1	Mercury, Total	0.00020	u	mg/L	0.00020

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G529

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-002REP	PD-21	Arsenic, Total	0.053	0.050	4.8
		Lead, Total	0.022	0.021	5.3
		Selenium, Total	0.0047	0.0020 u	NC
-004REP	FB-02	Mercury, Total	0.00020 u	0.00020 u	NC

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G529

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-002	PD-21	Arsenic, Total	0.11	0.053	0.040	133
		Lead, Total	0.042	0.022	0.020	100
		Selenium, Total	0.0097	0.0047	0.010	49.9
-004	FB-02	Mercury, Total	0.00070	0.00020 u	0.0010	69.6

MANAGERS DESIGNERS/CONSULTANTS

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 15th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G529

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
95GI974-LC1	Silver, LCS	0.050	mg/L	92.9	96.6	3.9
	Barium, LCS	2.0	mg/L	93.7	93.8	0.15
	Cadmium, LCS	0.050	mg/L	112	108	4.0
	Cobalt, LCS	0.50	mg/L	97.8	96.3	1.5
	Chromium, LCS	0.20	mg/L	97.4	94.0	3.5
95GF083-LC1	Arsenic, LCS	0.040	mg/L	110	105	4.0
	Lead, LCS	0.020	mg/L	112	111	1.5
	Selenium, LCS	0.010	mg/L	117	101	14.8
95HG426-LC1	Mercury, LCS	0.0020	mg/L	97.4	98.0	0.67

Weston Environmental Metrics, Inc.
524D ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G529

CLIENT ID	RFW #		MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
PD-20	001		W	95GVE236	08/11/95	08/12/95	N/A	08/13/95
PD-20	001	D1	W	95GVE236	08/11/95	08/12/95	N/A	08/13/95
FB-01	003		W	95GVE236	08/11/95	08/12/95	N/A	08/13/95
LAB QC:								
VBLK	MB1		W	95GVE236	N/A	N/A	N/A	08/13/95
VBLK	MB1 BS		W	95GVE236	N/A	N/A	N/A	08/13/95

SIGNATURE Marilyn Kinsley DATE 8/14/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
GC/MS Case Narrative

TAT-Pier Drum Site
RFW# 9507G529
VOA DATA:

1. All analyses were performed within the Method hold times.
2. All Method Blank target compounds were below reporting limits.
3. All LCS (Method Blank Spike) recoveries in the volatile analyses were within QC limits.
4. Matrix Spike analyses are not conducted for Method 524, unless specifically requested.
5. All surrogate recoveries in the volatile analyses were within QC limits.
6. All analyses were performed following EPA Method 524. All initial calibration and continuing calibration criteria are met by method.
7. All of the samples were analyzed with a 25ml purge volume to meet detection limits. Sample - 001 was initially analyzed at a 1/5 dilution, due to the appearance and nature of the sample. It also required a secondary dilution (1/25) to accurately quantitate the compound toluene. All reporting limits and concentrations are adjusted for the dilutions.
8. All internal standard areas and retention times were within limits.

Marilyn Krueding
GC/MS Section Manager

8/14/95
Date

Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS METHODS

Volatiles	____	SW846 8240
	____	SW846 8260
	✓	EPA 524.2
	____	EPA 624
	____	CLP SOW 2/88
	____	OLMO1.8
Semi-Volatiles	____	SW846 8270
	____	EPA 625
	____	CLP SOW 2/88
	____	OLMO1.8

updated May 15, 1995

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 14th, 1995

RE: PD-20
Project # 00000-000-000-0000
Lab ID: 9508G529-001
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	2	U
Chloromethane	BRL	2	U
Bromomethane	BRL	2	U
Vinyl chloride	BRL	2	U
Chloroethane	BRL	2	U
Methylene Chloride	BRL	2	U
Trichlorofluoromethane	BRL	2	U
1,1-Dichloroethene	BRL	2	U
1,1-Dichloroethane	BRL	2	U
cis-1,2-Dichloroethene	BRL	2	U
2,2-Dichloropropane	BRL	2	U
trans-1,2-Dichloroethene	BRL	2	U
Chloroform	BRL	2	U
Bromochloromethane	BRL	2	U
1,2-Dichloroethane	BRL	2	U
1,1,1-Trichloroethane	BRL	2	U
Carbon Tetrachloride	BRL	2	U

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RE: PD-20
Project # 00000-000-000-0000
Lab ID: 9508G529-001
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	2	U
Bromodichloromethane	BRL	2	U
Dibromomethane	BRL	2	U
1,2-Dichloropropane	BRL	2	U
Trichloroethene	BRL	2	U
Dibromochloromethane	BRL	2	U
1,2-Dibromoethane	BRL	2	U
1,1,2-Trichloroethane	BRL	2	U
Benzene	BRL	2	U
1,3-Dichloropropane	BRL	2	U
Bromoform	BRL	2	U
Tetrachloroethene	BRL	2	U
1,1,2,2-Tetrachloroethane	BRL	2	U
Toluene	E	2	
Chlorobenzene	BRL	2	U
1,1,1,2-Tetrachloroethane	BRL	2	U
Ethylbenzene	20	2	

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Lab ID: 9508G529-001
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	43	2	
m/p-Xylene	BRL	2	U
o-Xylene	BRL	2	U
Bromobenzene	BRL	2	U
1,2,3-Trichloropropane	BRL	2	U
Isopropylbenzene	BRL	2	U
n-Propylbenzene	BRL	2	U
2-Chlorotoluene	BRL	2	U
4-Chlorotoluene	BRL	2	U
1,3,5-Trimethylbenzene	BRL	2	U
tert-Butylbenzene	BRL	2	U
1,2,4-Trimethylbenzene	BRL	2	U
sec-Butylbenzene	BRL	2	U
p-Isopropyltoluene	BRL	2	U
1,3-Dichlorobenzene	BRL	2	U
1,4-Dichlorobenzene	BRL	2	U
1,2-Dichlorobenzene	BRL	2	U

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Attn: Ms. Paula MacLaren

Date: Monday August 14th, 1995

RE: PD-20
Project # 00000-000-000-0000
Lab ID: 9508G529-001
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	2	U
1,2-Dibromo-3-chloropropane	BRL	2	U
1,2,4-Trichlorobenzene	BRL	2	U
Hexachlorobutadiene	BRL	2	U
Naphthalene	BRL	2	U
1,2,3-Trichlorobenzene	BRL	2	U
trans-1,3-Dichloropropene	BRL	2	U
cis-1,3-Dichloropropene	BRL	2	U

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To: TAT-Pier Drum Site
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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 14th, 1995

RE: PD-20
Project # 00000-000-000-0000
Lab ID: 9508G529-001 DL
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Toluene	170	12	

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 14th, 1995

RE: FB-01
Project # 00000-000-000-0000
Lab ID: 9508G529-003
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Bromomethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Chloroethane	BRL	0.5	U
Methylene Chloride	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
Chloroform	BRL	0.5	U
Bromochloromethane	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U

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Attn: Ms. Paula MacLaren

Date: Monday August 14th, 1995

RE: FB-01
Project # 00000-000-000-0000
Lab ID: 9508G529-003
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Benzene	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Bromoform	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Toluene	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U

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RE: FB-01
Project # 00000-000-000-0000
Lab ID: 9508G529-003
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
4-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U

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Date: Monday August 14th, 1995

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Project # 00000-000-000-0000
Lab ID: 9508G529-003
Sample Date: 08/11/95
Date Received: 08/12/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, METHOD 524 LIST

RFW Batch Number: 9508G529 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/14/95 13:11 Page: 1a

Sample Information	Cust ID:	PD-20	PD-20	FB-01	VBLK	VBLK BS
	RFW#:	001	001 DL	003	95GVE236-MB1	95GVE236-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER
	D.F.:	5	25	1	1	1
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate	4-Bromofluorobenzene	105 %	114 %	91 %	105 %	107 %
Surrogate	1,2-Dichlorobenzene-d4	116 %	119 %	96 %	103 %	111 %
		fl	fl	fl	fl	fl
Dichlorodifluoromethane		2 U	NA	0.5 U	0.5 U	102 %
Chloromethane		2 U	NA	0.5 U	0.5 U	90 %
Bromomethane		2 U	NA	0.5 U	0.5 U	94 %
Vinyl chloride		2 U	NA	0.5 U	0.5 U	97 %
Chloroethane		2 U	NA	0.5 U	0.5 U	93 %
Methylene Chloride		2 U	NA	0.5 U	0.5 U	91 %
Trichlorofluoromethane		2 U	NA	0.5 U	0.5 U	98 %
1,1-Dichloroethene		2 U	NA	0.5 U	0.5 U	92 %
1,1-Dichloroethane		2 U	NA	0.5 U	0.5 U	99 %
cis-1,2-Dichloroethene		2 U	NA	0.5 U	0.5 U	100 %
2,2-Dichloropropane		2 U	NA	0.5 U	0.5 U	108 %
trans-1,2-Dichloroethene		2 U	NA	0.5 U	0.5 U	99 %
Chloroform		2 U	NA	0.5 U	0.5 U	95 %
Bromochloromethane		2 U	NA	0.5 U	0.5 U	97 %
1,2-Dichloroethane		2 U	NA	0.5 U	0.5 U	86 %
1,1,1-Trichloroethane		2 U	NA	0.5 U	0.5 U	95 %
Carbon Tetrachloride		2 U	NA	0.5 U	0.5 U	96 %
1,1-Dichloropropene		2 U	NA	0.5 U	0.5 U	96 %
Bromodichloromethane		2 U	NA	0.5 U	0.5 U	88 %
Dibromomethane		2 U	NA	0.5 U	0.5 U	86 %
1,2-Dichloropropane		2 U	NA	0.5 U	0.5 U	92 %
Trichloroethene		2 U	NA	0.5 U	0.5 U	95 %
Dibromochloromethane		2 U	NA	0.5 U	0.5 U	88 %
1,2-Dibromoethane		2 U	NA	0.5 U	0.5 U	93 %
1,1,2-Trichloroethane		2 U	NA	0.5 U	0.5 U	83 %
Benzene		2 U	NA	0.5 U	0.5 U	95 %
1,3-Dichloropropane		2 U	NA	0.5 U	0.5 U	89 %
Bromoform		2 U	NA	0.5 U	0.5 U	86 %
Tetrachloroethene		2 U	NA	0.5 U	0.5 U	98 %
1,1,2,2-Tetrachloroethane		2 U	NA	0.5 U	0.5 U	92 %

*= Outside of EPA CLP QC limits.

	Cust ID:	PD-20		PD-20	FB-01		VBLK		VBLK BS	
	RFW#:	001		001 DL	003		95GVE236-MB1		95GVE236-MB1	
Toluene			E	170	0.5	U	0.5	U	96	%
Chlorobenzene		2	U	NA	0.5	U	0.5	U	96	%
1,1,1,2-Tetrachloroethane		2	U	NA	0.5	U	0.5	U	95	%
Ethylbenzene		20		NA	0.5	U	0.5	U	105	%
Styrene		43		NA	0.5	U	0.5	U	100	%
m/p-Xylene		2	U	NA	0.5	U	0.5	U	105	%
o-Xylene		2	U	NA	0.5	U	0.5	U	99	%
Bromobenzene		2	U	NA	0.5	U	0.5	U	100	%
1,2,3-Trichloropropane		2	U	NA	0.5	U	0.5	U	110	%
Isopropylbenzene		2	U	NA	0.5	U	0.5	U	94	%
n-Propylbenzene		2	U	NA	0.5	U	0.5	U	97	%
2-Chlorotoluene		2	U	NA	0.5	U	0.5	U	100	%
4-Chlorotoluene		2	U	NA	0.5	U	0.5	U	98	%
1,3,5-Trimethylbenzene		2	U	NA	0.5	U	0.5	U	102	%
tert-Butylbenzene		2	U	NA	0.5	U	0.5	U	100	%
1,2,4-Trimethylbenzene		2	U	NA	0.5	U	0.5	U	108	%
sec-Butylbenzene		2	U	NA	0.5	U	0.5	U	97	%
p-Isopropyltoluene		2	U	NA	0.5	U	0.5	U	101	%
1,3-Dichlorobenzene		2	U	NA	0.5	U	0.5	U	98	%
1,4-Dichlorobenzene		2	U	NA	0.5	U	0.5	U	100	%
1,2-Dichlorobenzene		2	U	NA	0.5	U	0.5	U	93	%
n-Butylbenzene		2	U	NA	0.5	U	0.5	U	106	%
1,2-Dibromo-3-chloropropane		2	U	NA	0.5	U	0.5	U	84	%
1,2,4-Trichlorobenzene		2	U	NA	0.5	U	0.5	U	98	%
Hexachlorobutadiene		2	U	NA	0.5	U	0.5	U	107	%
Naphthalene		2	U	NA	0.5	U	0.5	U	101	%
1,2,3-Trichlorobenzene		2	U	NA	0.5	U	0.5	U	99	%
trans-1,3-Dichloropropene		2	U	NA	0.5	U	0.5	U	87	%
cis-1,3-Dichloropropene		2	U	NA	0.5	U	0.5	U	86	%

*= Outside of EPA CLP QC limits.

2A

WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

RFW Lot No.: 9508G529

	CLIENT SAMPLE NO.	S1 (BFB)#	S2 (DCA)#	S3 ( )#	OTHER	TOT OUT
01	PD-20	105	116			0
02	PD-20DL	114	119			0
03	FB-01	91	96			0
04	VBLKGVE236-MB1	105	103			0
05	VBLKGVE236-MB1 BS	107	111			0

	QC LIMITS
S1 (BFB) = 4-Bromofluorobenzene	(80-120)
S2 (DCA) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: ONE

Case No.: LAB RFW Lot No.: 9508G529

MATRIX Spike - Sample No.: VBLKGVE236-MB1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	5.00	0	5.09	102	45 -202
Chloromethane	5.00	0	4.48	90	45 -177
Bromomethane	5.00	0	4.69	94	68 -143
Vinyl chloride	5.00	0	4.83	97	66 -145
Chloroethane	5.00	0	4.66	93	62 -138
Methylene Chloride	5.00	0	4.54	91	80 -120
Trichlorofluoromethane	5.00	0	4.90	98	72 -140
1,1-Dichloroethene	5.00	0	4.61	92	80 -120
1,1-Dichloroethane	5.00	0	4.93	99	80 -120
cis-1,2-Dichloroethene	5.00	0	4.98	100	80 -120
2,2-Dichloropropane	5.00	0	5.41	108	80 -120
trans-1,2-Dichloroethene	5.00	0	4.94	99	80 -120
Chloroform	5.00	0	4.73	95	80 -120
Bromochloromethane	5.00	0	4.87	97	80 -120
1,2-Dichloroethane	5.00	0	4.32	86	80 -120
1,1,1-Trichloroethane	5.00	0	4.74	95	80 -120
Carbon Tetrachloride	5.00	0	4.80	96	80 -120
1,1-Dichloropropene	5.00	0	4.79	96	80 -120
Bromodichloromethane	5.00	0	4.38	88	80 -120
Dibromomethane	5.00	0	4.32	86	80 -120
1,2-Dichloropropane	5.00	0	4.60	92	80 -120
Trichloroethene	5.00	0	4.76	95	80 -120
Dibromochloromethane	5.00	0	4.42	88	80 -120
1,2-Dibromoethane	5.00	0	4.63	93	80 -120
1,1,2-Trichloroethane	5.00	0	4.13	83	80 -120
Benzene	5.00	0	4.73	95	80 -120
1,3-Dichloropropane	5.00	0	4.45	89	80 -120
Bromoform	5.00	0	4.30	86	80 -120
Tetrachloroethene	5.00	0	4.89	98	80 -120
1,1,2,2-Tetrachloroethane	5.00	0	4.58	92	80 -120
Toluene	5.00	0	4.82	96	80 -120
Chlorobenzene	5.00	0	4.79	96	80 -120
1,1,1,2-Tetrachloroethane	5.00	0	4.74	95	80 -120
Ethylbenzene	5.00	0	5.26	105	80 -120
Styrene	5.00	0	5.00	100	80 -120
m/p-Xylene	10.0	0	10.5	105	80 -120
o-Xylene	5.00	0	4.96	99	80 -120
Bromobenzene	5.00	0	4.98	100	80 -120
1,2,3-Trichloropropane	5.00	0	5.52	110	33 -179
Isopropylbenzene	5.00	0	4.70	94	80 -120
n-Propylbenzene	5.00	0	4.86	97	80 -120
2-Chlorotoluene	5.00	0	5.01	100	80 -120
4-Chlorotoluene	5.00	0	4.89	98	80 -120

1,3,5-Trimethylbenzene	5.00	0	5.08	102	80 -120
tert-Butylbenzene	5.00	0	4.98	100	80 -120
1,2,4-Trimethylbenzene	5.00	0	5.40	108	80 -120
sec-Butylbenzene	5.00	0	4.86	97	80 -120
p-Isopropyltoluene	5.00	0	5.03	101	80 -120
1,3-Dichlorobenzene	5.00	0	4.91	98	80 -120
1,4-Dichlorobenzene	5.00	0	5.00	100	80 -120
1,2-Dichlorobenzene	5.00	0	4.65	93	80 -120
n-Butylbenzene	5.00	0	5.30	106	80 -120
1,2-Dibromo-3-chloropropane	5.00	0	4.18	84	80 -120
1,2,4-Trichlorobenzene	5.00	0	4.90	98	80 -120
Hexachlorobutadiene	5.00	0	5.33	107	80 -120
Naphthalene	5.00	0	5.05	101	52 -147
1,2,3-Trichlorobenzene	5.00	0	4.94	99	57 -154
trans-1,3-Dichloropropene	5.00	0	4.35	87	80 -120
cis-1,3-Dichloropropene	5.00	0	4.31	86	80 -120

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 59 outside limits

COMMENTS: _____

_____

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE236-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECB813

Level: (low/med) LOW

Date Received: 08/13/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE236-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECB813

Level: (low/med) LOW

Date Received: 08/13/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-02-6	trans-1,3-Dichloropropene		S
10061-01-5	cis-1,3-Dichloropropene		S

S: SPIKE COMPOUND

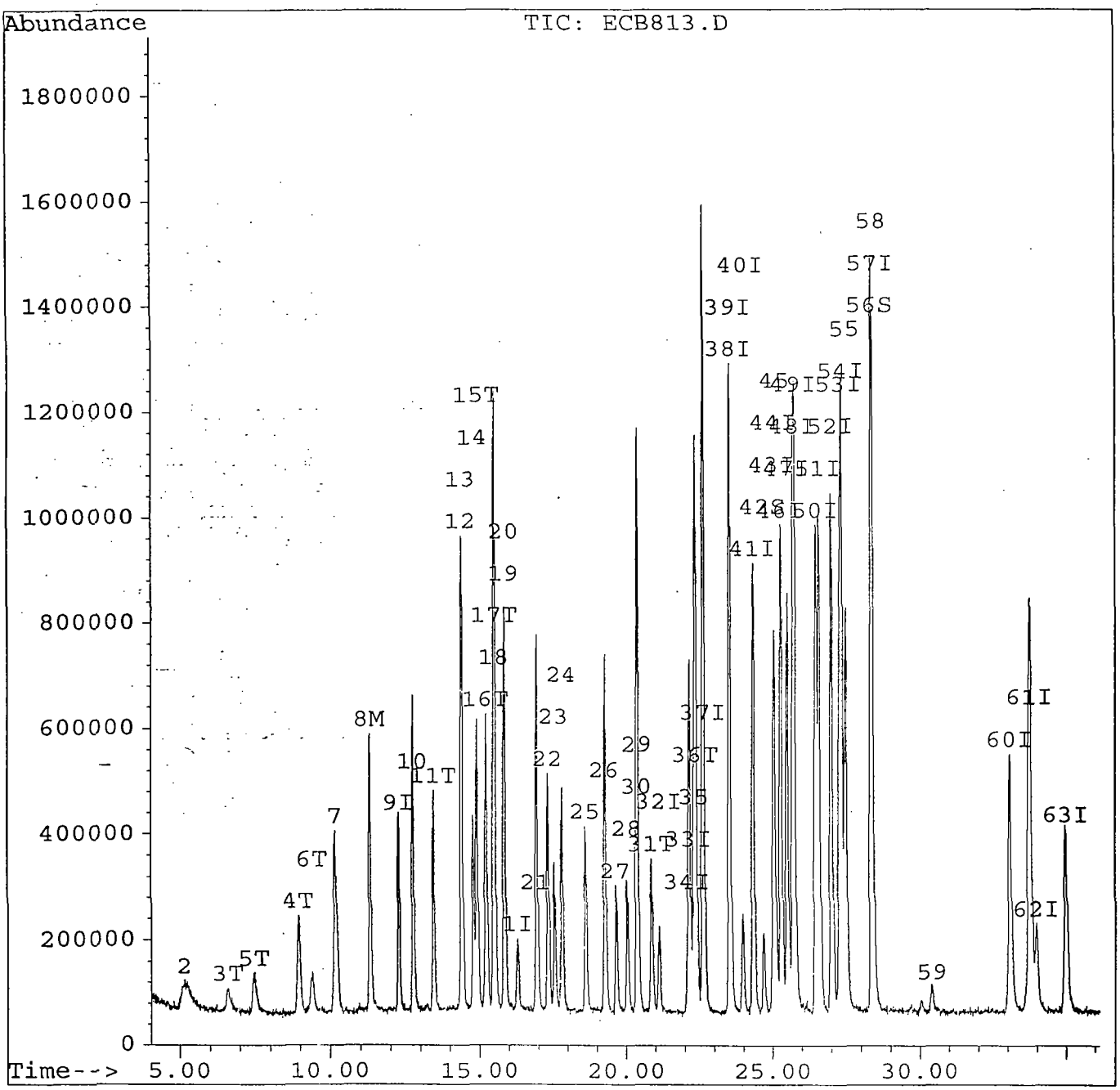
FORM 1 V-2

12/88 Rev.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\ECB813.D Vial: 3
Acq On : 13 Aug 95 3:26 pm Operator:
Sample : 95GVE236-MB1S EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+5ULMS Multiplr: 1.00
Quant Time: Aug 13 16:16 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\ECB813.D Vial: 3
Acq On : 13 Aug 95 3:26 pm Operator:
Sample : 95GVE236-MB1S EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+5ULMS Multiplr: 1.00
Quant Time: Aug 13 16:16 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	16.29	96	302789 ✓	1.00	ug/l		0.05
34) Chlorobenzene-d5	22.06	117	218557 ✓	1.00	ug/l		0.00
System Monitoring Compounds							%Recovery
42) p-Bromofluorobenzene	24.68	95	184486	1.07	ug/l	m ✓	
56) 1,2-Dichlorobenzene-d4	28.32	152	108640	1.11	ug/l	m ✓	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.13	85	660195	5.09	ug/l	m	98
3) Chloromethane	6.58	50	270071	4.48	ug/l	m	89
4) Bromomethane	8.93	94	488817	4.69	ug/l	m	98
5) Vinyl Chloride	7.44	62	396872	4.83	ug/l	m	60
6) Chloroethane	9.38	64	259904	4.66	ug/l	m	95
7) Trichlorofluoromethane	10.15	101	965909	4.90	ug/l	m	100
8) 1,1-Dichloroethene	11.30	96	513124	4.61	ug/l	m	90
9) Methylene Chloride	12.25	84	391248	4.54	ug/l	m	94
10) trans-1,2-Dichloroethene	12.74	96	530041	4.94	ug/l	m	92
11) 1,1-Dichloroethane	13.42	63	971750	4.93	ug/l	m	43
12) 2,2-Dichloropropane	14.38	77	705207	5.41	ug/l	m	99
13) cis-1,2-Dichloroethene	14.38	61	832892	4.98	ug/l	m	96
14) Bromochloromethane	14.77	49	427890	4.87	ug/l	m	79
15) Chloroform	14.90	83	999275	4.73	ug/l	m	100
16) 1,1,1-Trichloroethane	15.21	97	917249	4.74	ug/l	m	99
17) Carbon Tetrachloride	15.50	117	872545	4.80	ug/l	m	98
18) 1,1-Dichloropropene	15.47	75	791531	4.79	ug/l	m	96
19) Benzene	15.83	78	1214739	4.73	ug/l	m	98
20) 1,2-Dichloroethane	15.84	62	412479	4.32	ug/l	m	99
21) Trichloroethene	16.91	95	624081	4.76	ug/l	m	98
22) 1,2-Dichloropropane	17.31	63	437753	4.60	ug/l	m	94
23) Dibromomethane	17.53	174	272130	4.32	ug/l	m	91
24) Bromodichloromethane	17.78	83	737643	4.38	ug/l	m	99
25) cis-1,3-Dichloropropene	18.59	75	493911	4.31	ug/l	m	94
26) Toluene	19.26	91	1363982	4.82	ug/l	m	94
27) trans-1,3-Dichloropropene	19.65	75	360635	4.35	ug/l	m	97
28) 1,1,2-Trichloroethane	20.03	97	224290	4.13	ug/l	m	92
29) Tetrachloroethene	20.36	166	771885	4.89	ug/l	m	95
30) 1,3-Dichloropropane	20.36	76	371954	4.45	ug/l	m	68
31) Dibromochloromethane	20.86	129	448721	4.42	ug/l	m	1
32) 1,2-Dibromoethane	21.11	107	343862	4.63	ug/l	m	25
33) Chlorobenzene	22.14	112	965370	4.79	ug/l	m	1
35) 1,1,1,2-Tetrachloroethane	22.29	131	492684	4.74	ug/l	m	99
36) Ethylbenzene	22.35	106	521706	5.26	ug/l	m	91
37) m,p-xylene	22.60	91	2854882	10.48	ug/l	m	42
38) o-xylene	23.49	91	1371612	4.96	ug/l	m	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\ECB813.D Vial: 3
Acq On : 13 Aug 95 3:26 pm Operator:
Sample : 95GVE236-MB1S EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+5ULMS Multiplr: 1.00
Quant Time: Aug 13 16:16 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Styrene	23.52	104	892876	5.00 ug/l m	1
40) Bromoform	23.94	173	247045	4.30 ug/l m	49
41) Isopropylbenzene	24.31	105	1831224	4.70 ug/l m	64
43) 1,1,2,2-Tetrachloroethane	24.98	83	312267	4.58 ug/l m	96
44) Bromobenzene	25.04	156	513042	4.98 ug/l m	1
45) 1,2,3-Trichloropropane	25.09	75	289044	5.52 ug/l m	33
46) n-Propylbenzene	25.27	120	462261	4.86 ug/l m	81
47) 2-Chlorotoluene	25.49	126	437222	5.01 ug/l m	1
48) 1,3,5-Trimethylbenzene	25.68	105	1695350	5.08 ug/l m	93
49) 4-Chlorotoluene	25.73	126	445341	4.89 ug/l m	1
50) tert-Butylbenzene	26.46	119	1624195	4.98 ug/l m	77
51) 1,2,4-Trimethylbenzene	26.58	105	1692917	5.40 ug/l m	29
52) sec-Butylbenzene	26.99	105	2388753	4.86 ug/l m	66
53) 1,3-Dichlorobenzene	27.25	146	928959	4.91 ug/l m	14
54) p-Isopropyltoluene	27.34	119	1874581	5.03 ug/l m	77
55) 1,4-Dichlorobenzene	27.47	146	946794	5.00 ug/l m	99
57) n-Butylbenzene	28.33	91	2130169	5.30 ug/l m	73
58) 1,2-Dichlorobenzene	28.38	146	717040	4.65 ug/l m	97
59) 1,2-Dibromo-3-chloropropan	30.41	157	53613	4.18 ug/l m	88
60) 1,2,4-Trichlorobenzene	33.07	180	663654	4.90 ug/l m	1
61) Hexachlorobutadiene	33.75	225	771525	5.33 ug/l m	29
62) Naphthalene	33.96	128	544568	5.05 ug/l m	1
63) 1,2,3-Trichlorobenzene	34.99	180	516437	4.94 ug/l m	1

(#) = qualifier out of range (m) = manual integration

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: ECA813 Lab Sample ID: 95GVE236-MB1

Date Analyzed: 08/13/95 Time Analyzed: 1340

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: GCL#5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVE236-MB1 BS	95GVE236-MB1S	ECB813	1526
02	FB-01	9508G529-003	EXCS02	1636
03	PD-20	9508G529-001	EXCS03	2044
04	PD-20DL	9508G529-001	EXCS04	2152

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 95GVE236-MB1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ECA813

Level: (low/med) LOW Date Received: 08/13/95

% Moisture: not dec. _____ Date Analyzed: 08/13/95

Column: (pack/cap) CAP Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE236-MB1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECA813

Level: (low/med) LOW

Date Received: 08/13/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

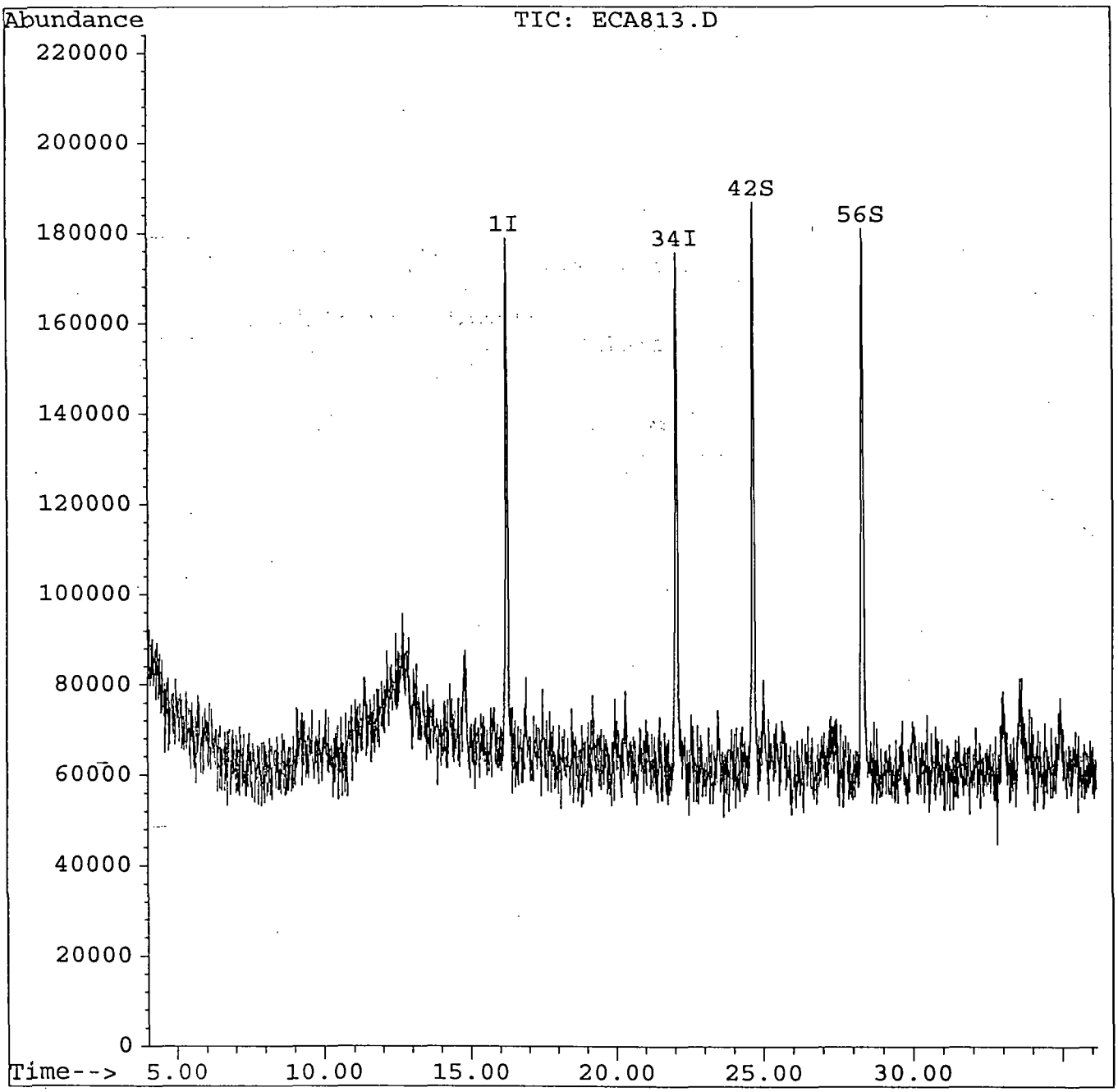
Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U

Data File : C:\HPCHEM\1\DATA\AUG1395\ECA813.D Vial: 3
Acq On : 13 Aug 95 1:40 pm Operator:
Sample : 95GVE236-MB1 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS Multiplr: 1.00
Quant Time: Aug 13 14:24 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\ECA813.D Vial: 3
Acq On : 13 Aug 95 1:40 pm Operator:
Sample : 95GVE236-MB1 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS Multiplr: 1.00
Quant Time: Aug 13 14:24 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995 ✓
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	16.23	96	269787 ✓	1.00	ug/l	0.00
34) Chlorobenzene-d5	22.06	117	198271 ✓	1.00	ug/l	0.00
System Monitoring Compounds						%Recovery
42) p-Bromofluorobenzene	24.67	95	162753	1.05	ug/l ✓	m
56) 1,2-Dichlorobenzene-d4	28.33	152	91722	1.03	ug/l ✓	m
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: EAA813 BFB Injection Date: 08/13/95

Instrument ID: GCL#5 BFB Injection Time: 1143

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	50.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	63.6
175	5.0 - 9.0% of mass 174	5.3(8.4)1
176	Greater than 95.0% but less than 101.0% of mass 174	63.7(100.2)1
177	5.0 - 9.0% of mass 176	4.2(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

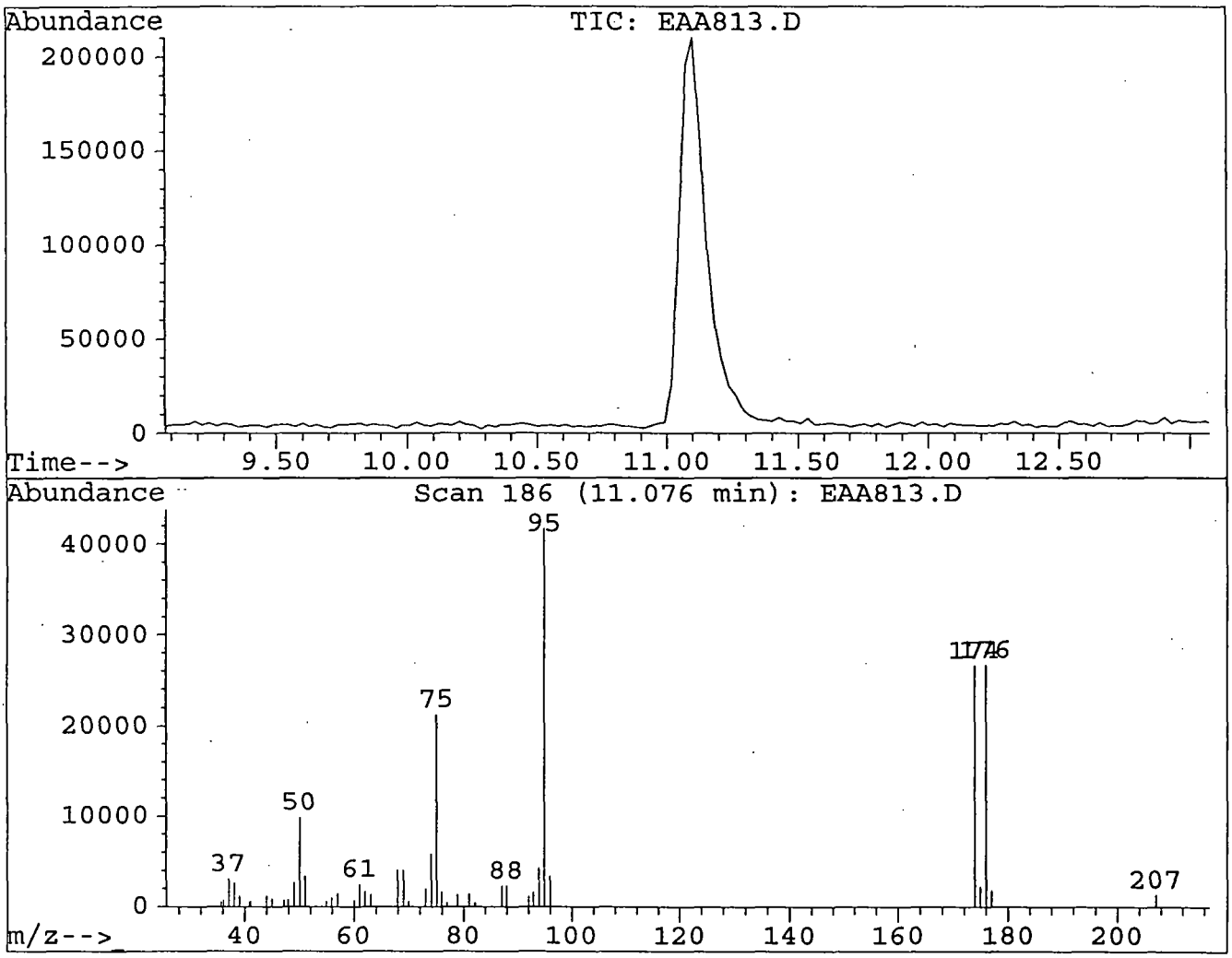
	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD10	STD10	EBA813	08/13/95	1231
02	VBLKGVE236-MB1	95GVE236-MB1	ECA813.	08/13/95	1340
03	VBLKGVE236-MB1 BS	95GVE236-MB1S	ECB813.	08/13/95	1526
04	FB-01	9508G529-003	EXCS02.	08/13/95	1636
05	PD-20	9508G529-001	EXCS03.	08/13/95	2044
06	PD-20DL	9508G529-001	EXCS04.	08/13/95	2152
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

BFB

Data File : C:\HPCHEM\1\DATA\AUG1395\EAA813.D
Acq On : 13 Aug 95 11:43 am
Sample : BFBTUNE EAA813
Misc : GCL#5,DIL=1,5MLOFW+1ULBFB

Vial: 1
Operator:
Inst : gcms5
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	9804	PASS
75	95	30	60	50.7	21192	PASS
95	95	100	100	100.0	41776	PASS
96	95	5	9	8.0	3360	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	63.6	26552	PASS
175	174	5	9	8.4	2225	PASS
176	174	95	101	100.2	26608	PASS
177	176	5	9	6.6	1745	PASS

EAA813.D BFB.M Sun Aug 13 12:22:49 1995

Response Factor Report gcms5

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 07 11:38:45 1995
Response via : Continuing Calibration

Calibration Files
1 =EBC731.D 2 =EBD731.D 3 =EBE731.D
= =

		Compound	1	2	3	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------		
2)		Dichlorodifluorometha	0.550	0.607	0.524	0.6	7.62
3)	T	Chloromethane	0.222	0.230	0.194	0.2	8.75
4)	T	Bromomethane	0.324	0.372	0.339	0.3	7.16
5)	T	Vinyl Chloride	0.241	0.293	0.264	0.3	9.84
6)	T	Chloroethane	0.186	0.198	0.172	0.2	7.03
7)		Trichlorofluoromethan	0.638	0.756	0.663	0.7	9.09
8)	M	1,1-Dichloroethene	0.355	0.378	0.332	0.4	6.49
9)	I	Methylene Chloride	0.274	0.282	0.244	0.3	7.50
10)		trans-1,2-Dichloroeth	0.353	0.356	0.312	0.3	7.21
11)	T	1,1-Dichloroethane	0.574	0.670	0.599	0.6	8.12
12)		2,2-Dichloropropane	0.451	0.504	0.426	0.5	8.70
13)		cis-1,2-Dichloroethen	0.480	0.554	0.502	0.5	7.47
14)		Bromochloromethane	0.238	0.265	0.245	0.2	5.50
15)	T	Chloroform	0.591	0.690	0.632	0.6	7.81
16)	T	1,1,1-Trichloroethane	0.570	0.659	0.591	0.6	7.66
17)	T	Carbon Tetrachloride	0.543	0.636	0.578	0.6	8.09
18)		1,1-Dichloropropene	0.442	0.548	0.513	0.5	10.78
19)		Benzene	0.700	0.837	0.762	0.8	8.98
20)		1,2-Dichloroethane	0.265	0.289	0.265	0.3	5.12
21)		Trichloroethene	0.413	0.450	0.418	0.4	4.66
22)		1,2-Dichloropropane	0.247	0.300	0.271	0.3	9.73
23)		Dibromomethane	0.176	0.190	0.179	0.2	4.32
24)		Bromodichloromethane	0.419	0.511	0.498	0.5	10.48
25)		cis-1,3-Dichloroprope	0.283	0.355	0.337	0.3	11.59
26)		Toluene	0.797	0.939	0.859	0.9	8.23
27)		trans-1,3-Dichloropro	0.182	0.237	0.241	0.2	14.82
28)		1,1,2-Trichloroethane	0.158	0.159	0.148	0.2	3.92
29)		Tetrachloroethene	0.556	0.543	0.493	0.5	6.29
30)		1,3-Dichloropropane	0.234	0.245	0.233	0.2	2.77
31)	T	Dibromochloromethane	0.236	0.309	0.300	0.3	14.07
32)	I	1,2-Dibromoethane	0.213	0.219	0.215	0.2	1.55
33)	I	Chlorobenzene	0.573	0.666	0.620	0.6	7.49
34)	I	Chlorobenzene-d5	----------	ISTD	----------		
35)		1,1,1,2-Tetrachloroet	0.433	0.463	0.445	0.4	3.32
36)	T	Ethylbenzene	0.440	0.475	0.440	0.5	4.49
37)	I	m,p-xylene	1.270	1.292	1.245	1.3	1.86
38)	I	o-xylene	1.156	1.277	1.246	1.2	5.13
39)	I	Styrene	0.766	0.836	0.787	0.8	4.54
40)	I	Bromoform	0.215	0.234	0.249	0.2	7.48
41)	I	Isopropylbenzene	1.764	1.858	1.748	1.8	3.34
42)	S	p-Bromofluorobenzene	0.739	0.717	0.701	0.7	2.65

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 07 11:38:45 1995
Response via : Continuing Calibration

Calibration Files
1 =EBC731.D 2 =EBD731.D 3 =EBE731.D
= =

		Compound	1	2	3	Avg	%RSD
43)	I	1,1,2,2-Tetrachloroet	0.305	0.265	0.270	0.3	7.79
44)	I	Bromobenzene	0.465	0.473	0.455	0.5	2.00
45)		1,2,3-Trichloropropan	0.271	0.225	0.229	0.2	10.49
46)	I	n-Propylbenzene	0.447	0.459	0.431	0.4	3.15
47)	I	2-Chlorotoluene	0.368	0.413	0.394	0.4	5.79
48)	I	1,3,5-Trimethylbenzen	1.450	1.529	1.490	1.5	2.65
49)	I	4-Chlorotoluene	0.432	0.413	0.402	0.4	3.66
50)	I	tert-Butylbenzene	1.444	1.552	1.485	1.5	3.65
51)	I	1,2,4-Trimethylbenzen	1.335	1.501	1.439	1.4	5.89
52)	I	sec-Butylbenzene	2.084	2.350	2.265	2.2	6.07
53)	I	1,3-Dichlorobenzene	0.889	0.866	0.827	0.9	3.68
54)	I	p-Isopropyltoluene	1.623	1.821	1.736	1.7	5.75
55)		1,4-Dichlorobenzene	0.867	0.845	0.835	0.8	1.89
56)	S	1,2-Dichlorobenzene-d	0.453	0.439	0.425	0.4	3.16
57)	I	n-Butylbenzene	1.740	1.953	1.837	1.8	5.80
58)		1,2-Dichlorobenzene	0.697	0.684	0.672	0.7	1.88
59)		1,2-Dibromo-3-chlorop	0.050	0.048	0.052	0.0	4.36
60)	I	1,2,4-Trichlorobenzen	0.672	0.612	0.611	0.6	5.46
61)	I	Hexachlorobutadiene	0.756	0.792	0.727	0.8	4.33
62)	I	Naphthalene	0.520	0.452	0.449	0.5	8.55
63)	I	1,2,3-Trichlorobenzen	0.548	0.462	0.462	0.5	10.06

(#) = Out of Range

Continuing Calibration Report gcms5

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 07 11:38:45 1995
Response via : Continuing Calibration

Continuing Calibration File: EBA813.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	Fluorobenzene	1.000	1.000	0.0	110
2		Dichlorodifluoromethane	0.560	0.429	23.5	78
3	T	Chloromethane	0.215	0.199	7.4	96
4	T	Bromomethane	0.345	0.344	0.2	102
5	T	Vinyl Chloride	0.266	0.272	-2.2	102
6	T	Chloroethane	0.185	0.184	0.6	103
7		Trichlorofluoromethane	0.686	0.652	5.0	95
8	M	1,1-Dichloroethene	0.355	0.368	-3.5	107
9	I	Methylene Chloride	0.267	0.285	-6.8	112
10		trans-1,2-Dichloroethene	0.340	0.354	-4.1	110
11	T	1,1-Dichloroethane	0.614	0.651	-5.9	107
12		2,2-Dichloropropane	0.460	0.431	6.4	94
13		cis-1,2-Dichloroethene	0.512	0.553	-8.0	110
14		Bromochloromethane	0.249	0.290	-16.3	121
15	T	Chloroform	0.638	0.697	-9.3	112
16	T	1,1,1-Trichloroethane	0.607	0.639	-5.3	107
17	T	Carbon Tetrachloride	0.586	0.600	-2.4	104
18		1,1-Dichloropropene	0.501	0.546	-9.0	110
19		Benzene	0.766	0.849	-10.8	112
20		1,2-Dichloroethane	0.273	0.315	-15.3	120
21		Trichloroethene	0.427	0.433	-1.3	106
22		1,2-Dichloropropane	0.273	0.314	-15.3	116
23		Dibromomethane	0.182	0.208	-14.5	121
24		Bromodichloromethane	0.476	0.556	-16.8	120
25		cis-1,3-Dichloropropene	0.325	0.378	-16.4	118
26		Toluene	0.865	0.934	-8.0	110
27		trans-1,3-Dichloropropene	0.220	0.274	-24.4	128
28		1,1,2-Trichloroethane	0.155	0.179	-15.3	124
29		Tetrachloroethene	0.531	0.521	1.9	106
30		1,3-Dichloropropane	0.237	0.276	-16.3	125
31	T	Dibromochloromethane	0.282	0.335	-19.0	120
32	I	1,2-Dibromoethane	0.215	0.245	-13.8	124
33	I	Chlorobenzene	0.620	0.666	-7.5	111
34	I	Chlorobenzene-d5	1.000	1.000	0.0	111
35		1,1,1,2-Tetrachloroethane	0.447	0.475	-6.3	114
36	T	Ethylbenzene	0.451	0.454	-0.6	106
37	I	m,p-xylene	1.269	1.246	1.8	107
38	I	o-xylene	1.227	1.266	-3.2	110
39	I	Styrene	0.797	0.817	-2.6	108
40	I	Bromoform	0.233	0.263	-13.1	125
41	I	Isopropylbenzene	1.790	1.782	0.5	106
42	S	p-Bromofluorobenzene	0.719	0.785	-9.2	12#

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 07 11:38:45 1995
Response via : Continuing Calibration

Continuing Calibration File: EBA813.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

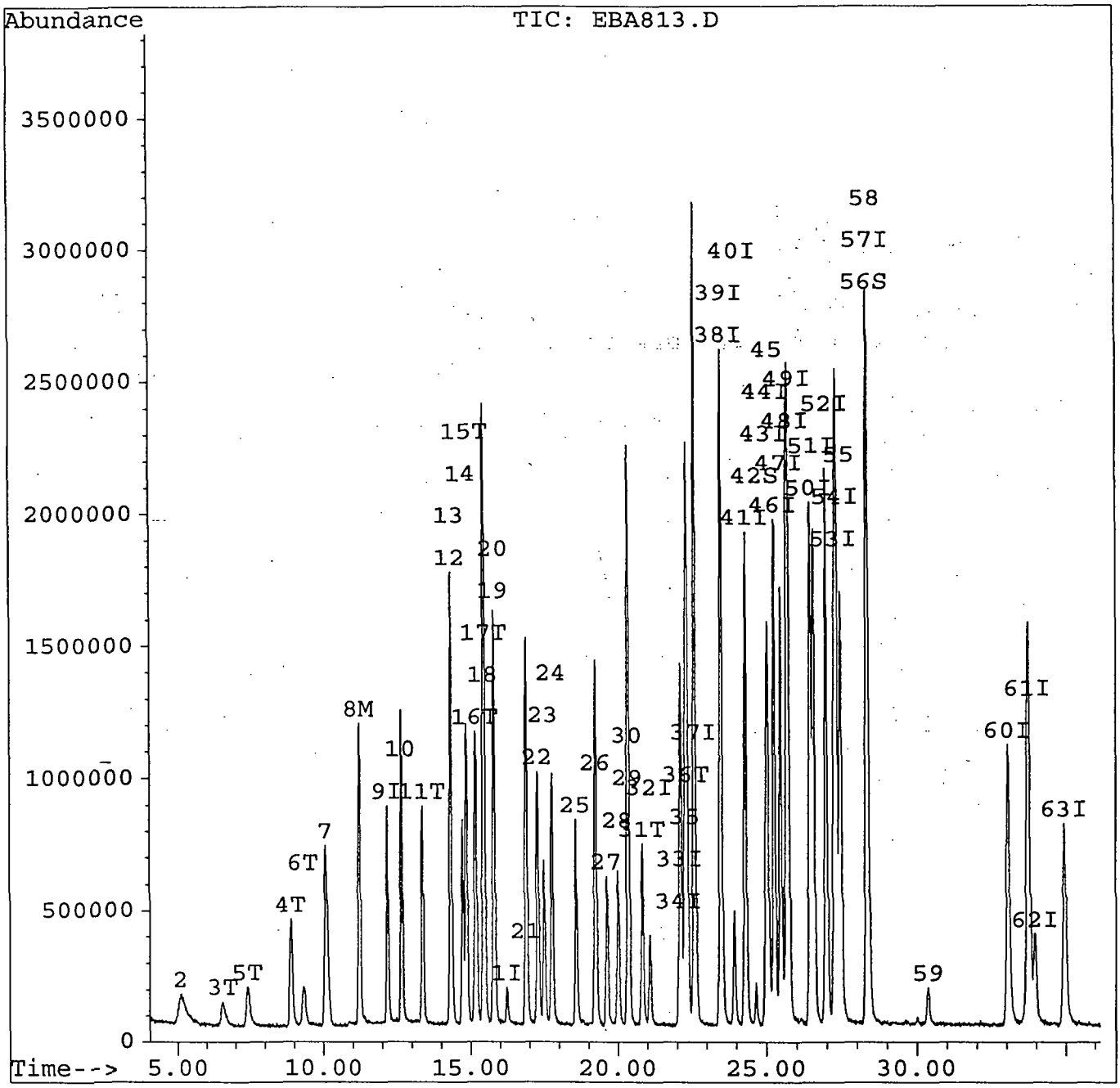
		Compound	AvgRF	CCRF	%Dev	Area%
43	I	1,1,2,2-Tetrachloroethane	0.280	0.312	-11.3	130
44	I	Bromobenzene	0.464	0.471	-1.5	110
45		1,2,3-Trichloropropane	0.242	0.239	0.9	118
46	I	n-Propylbenzene	0.446	0.435	2.3	105
47	I	2-Chlorotoluene	0.392	0.399	-1.9	107
48	I	1,3,5-Trimethylbenzene	1.490	1.528	-2.5	111
49	I	4-Chlorotoluene	0.416	0.417	-0.2	112
50	I	tert-Butylbenzene	1.494	1.491	0.2	106
51	I	1,2,4-Trimethylbenzene	1.425	1.434	-0.7	106
52	I	sec-Butylbenzene	2.233	2.251	-0.8	106
53	I	1,3-Dichlorobenzene	0.860	0.866	-0.7	111
54	I	p-Isopropyltoluene	1.726	1.705	1.2	104
55		1,4-Dichlorobenzene	0.849	0.866	-2.0	114
56	S	1,2-Dichlorobenzene-d4	0.439	0.448	-2.0	11#
57	I	n-Butylbenzene	1.843	1.838	0.3	104
58		1,2-Dichlorobenzene	0.684	0.706	-3.2	114
59		1,2-Dibromo-3-chloropropane	0.050	0.059	-17.5	135
60	I	1,2,4-Trichlorobenzene	0.632	0.620	1.8	112
61	I	Hexachlorobutadiene	0.758	0.662	12.6	93
62	I	Naphthalene	0.474	0.494	-4.2	121
63	I	1,2,3-Trichlorobenzene	0.491	0.478	2.5	115

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EBA813.D Vial: 2
Acq On : 13 Aug 95 12:31 pm Operator:
Sample : STD10 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+10UL588 Multiplr: 1.00
Quant Time: Aug 13 13:15 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\EBA813.D Vial: 2
Acq On : 13 Aug 95 12:31 pm Operator:
Sample : STD10 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+10UL588 Multiplr: 1.00
Quant Time: Aug 13 13:15 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	16.24	96	296916	1.00	ug/l		0.00
34) Chlorobenzene-d5	22.05	117	225902	1.00	ug/l		0.00
System Monitoring Compounds							%Recovery
42) p-Bromofluorobenzene	24.66	95	177427	0.94	ug/l	m	
56) 1,2-Dichlorobenzene-d4	28.32	152	101148	0.96	ug/l	m	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.10	85	1273027	6.23	ug/l	m	91
3) Chloromethane	6.57	50	591058	8.30	ug/l	m	84
4) Bromomethane	8.89	94	1021920	9.24	ug/l	m	4
5) Vinyl Chloride	7.41	62	806262	8.67	ug/l	m	61
6) Chloroethane	9.32	64	547294	8.86	ug/l	m	94
7) Trichlorofluoromethane	10.09	101	1934657	8.63	ug/l	m	100
8) 1,1-Dichloroethene	11.21	96	1091657	9.85	ug/l	m	92
9) Methylene Chloride	12.17	84	845474	11.17	ug/l	m	95
10) trans-1,2-Dichloroethene	12.65	96	1051823	9.63	ug/l	m	90
11) 1,1-Dichloroethane	13.37	63	1932011	9.98	ug/l	m	98
12) 2,2-Dichloropropane	14.32	77	1279280	9.07	ug/l	m	85
13) cis-1,2-Dichloroethene	14.33	61	1641670	10.09	ug/l	m	98
14) Bromochloromethane	14.72	49	861319	11.50	ug/l	m	83
15) Chloroform	14.85	83	2070219	10.44	ug/l	m	97
16) 1,1,1-Trichloroethane	15.17	97	1896773	9.87	ug/l	m	100
17) Carbon Tetrachloride	15.46	117	1781350	9.33	ug/l	m	1
18) 1,1-Dichloropropene	15.43	75	1621628	9.61	ug/l	m	83
19) Benzene	15.78	78	2520699	10.33	ug/l	m	100
20) 1,2-Dichloroethane	15.79	62	935525	12.40	ug/l	m	43
21) Trichloroethene	16.88	95	1284685	9.66	ug/l	m	99
22) 1,2-Dichloropropane	17.28	63	932968	11.19	ug/l	m	95
23) Dibromomethane	17.49	174	617183	11.52	ug/l	m	90
24) Bromodichloromethane	17.76	83	1651123	11.63	ug/l	m	96
25) cis-1,3-Dichloropropene	18.57	75	1123111	11.94	ug/l	m	95
26) Toluene	19.23	91	2772240	9.89	ug/l	m	95
27) trans-1,3-Dichloropropene	19.63	75	812834	12.63	ug/l	m	93
28) 1,1,2-Trichloroethane	20.01	97	531956	12.75	ug/l	m	80
29) Tetrachloroethene	20.34	166	1546363	9.02	ug/l	m	95
30) 1,3-Dichloropropane	20.35	76	820403	12.08	ug/l	m	72
31) Dibromochloromethane	20.83	129	994881	11.68	ug/l	m	96
32) 1,2-Dibromoethane	21.08	107	728442	12.28	ug/l	m	4
33) Chlorobenzene	22.11	112	1977543	9.94	ug/l	m	1
35) 1,1,1,2-Tetrachloroethane	22.27	131	1073430	10.29	ug/l	m	97
36) Ethylbenzene	22.33	106	1025503	9.43	ug/l	m	51
37) m,p-xylene	22.59	91	5629022	18.47	ug/l	m	43
38) o-xylene	23.47	91	2859825	9.73	ug/l	m	40

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EBA813.D Vial: 2
Acq On : 13 Aug 95 12:31 pm Operator:
Sample : STD10 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLOFW+10ULIS+1ULSS+10UL588 Multiplr: 1.00
Quant Time: Aug 13 13:15 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Styrene	23.50	104	1846009	10.12	ug/l	m	1
40)	Bromoform	23.93	173	594129	11.62	ug/l	m	72
41)	Isopropylbenzene	24.30	105	4024611	9.73	ug/l	m	64
43)	1,1,2,2-Tetrachloroethane	24.97	83	704842	12.71	ug/l	m	94
44)	Bromobenzene	25.02	156	1065004	10.08	ug/l	m	1
45)	1,2,3-Trichloropropane	25.08	75	540944	11.32	ug/l	m	97
46)	n-Propylbenzene	25.25	120	983341	9.14	ug/l	m	1
47)	2-Chlorotoluene	25.47	126	901867	9.50	ug/l	m	1
48)	1,3,5-Trimethylbenzene	25.67	105	3451405	9.60	ug/l	m	92
49)	4-Chlorotoluene	25.73	126	941947	10.48	ug/l	m	1
50)	tert-Butylbenzene	26.44	119	3369026	8.95	ug/l	m	76
51)	1,2,4-Trimethylbenzene	26.56	105	3239846	9.50	ug/l	m	29
52)	sec-Butylbenzene	26.97	105	5084075	9.35	ug/l	m	64
53)	1,3-Dichlorobenzene	27.25	146	1956539	9.86	ug/l	m	11
54)	p-Isopropyltoluene	27.32	119	3852351	9.08	ug/l	m	75
55)	1,4-Dichlorobenzene	27.45	146	1956538	9.99	ug/l	m	98
57)	n-Butylbenzene	28.33	91	4151667	9.30	ug/l	m	75
58)	1,2-Dichlorobenzene	28.37	146	1594976	10.40	ug/l	m	98
59)	1,2-Dibromo-3-chloropropan	30.38	157	132607	12.67	ug/l	m	34
60)	1,2,4-Trichlorobenzene	33.05	180	1400873	10.33	ug/l	m	45
61)	Hexachlorobutadiene	33.73	225	1496341	7.68	ug/l	m	1
62)	Naphthalene	33.97	128	1115253	11.39	ug/l	m	1
63)	1,2,3-Trichlorobenzene	34.96	180	1080714	10.26	ug/l	m	7

(#) = qualifier out of range (m) = manual integration

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site RFW Lot: 9508G529

Lab File ID (Standard): EBA813 Date Analyzed: 08/13/95

Instrument ID: GCL#5 Time Analyzed: 1231

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA	#	RT	IS2(DFB) AREA	#	RT	IS3(CBZ) AREA	#	RT
	12 HOUR STD	296916		16.24	225902		22.05			
	UPPER LIMIT	593832		16.74	451804		22.55			
	LOWER LIMIT	148458		15.74	112951		21.55			
	CLIENT SAMPLE NO.									
01	PD-20	264418		16.26	202706		22.06			
02	PD-20DL	241762		16.24	195550		22.05			
03	FB-01	296397		16.25	214912		22.05			
04	VBLKGVE236-MB1	269787		16.23	198271		22.06			
05	VBLKGVE236-MB1 BS	302789		16.29	218557		22.06			

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

PD-20

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-001

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS03

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
594-20-7	2,2-Dichloropropane	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
67-66-3	Chloroform	2	U
74-97-5	Bromochloromethane	2	U
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
75-27-4	Bromodichloromethane	2	U
74-95-3	Dibromomethane	2	U
78-87-5	1,2-Dichloropropane	2	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	2	U
142-28-9	1,3-Dichloropropane	2	U
75-25-2	Bromoform	2	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-88-3	Toluene		E
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	20	

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1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

PD-20

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-001

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS03

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

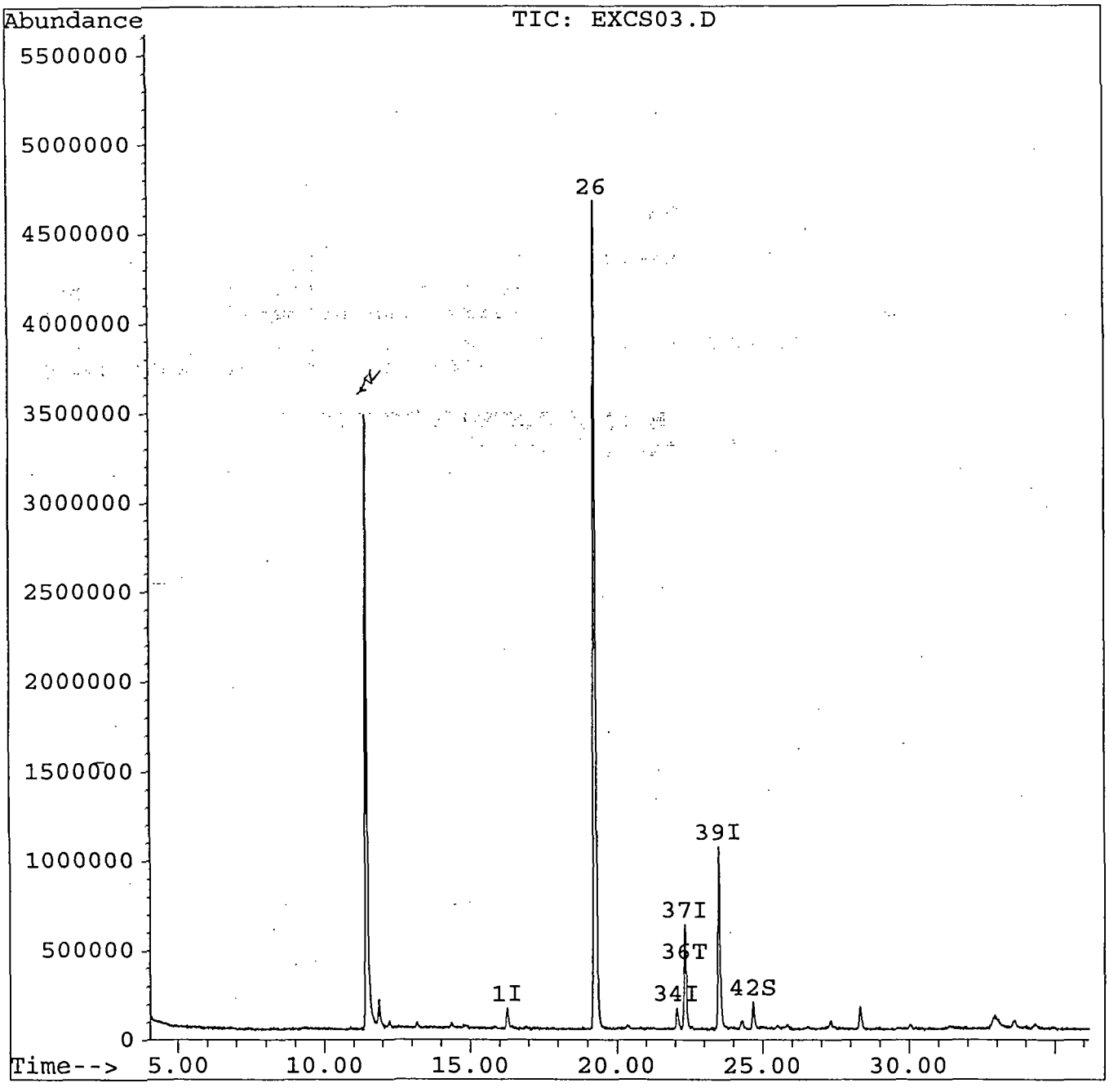
Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
100-42-5	Styrene	43	
000-00-0	m/p-Xylene	2	U
95-47-6	o-Xylene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
98-82-8	Isopropylbenzene	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS03.D Vial: 6
Acq On : 13 Aug 95 8:44 pm Operator:
Sample : 9508G529-001 EAA813 Inst : gcms5
Misc : GCL#5,DIL=10,2.5MLSMP+10ULIS+1ULSS+25MLO Multiplr: 1.00
Quant Time: Aug 13 21:21 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



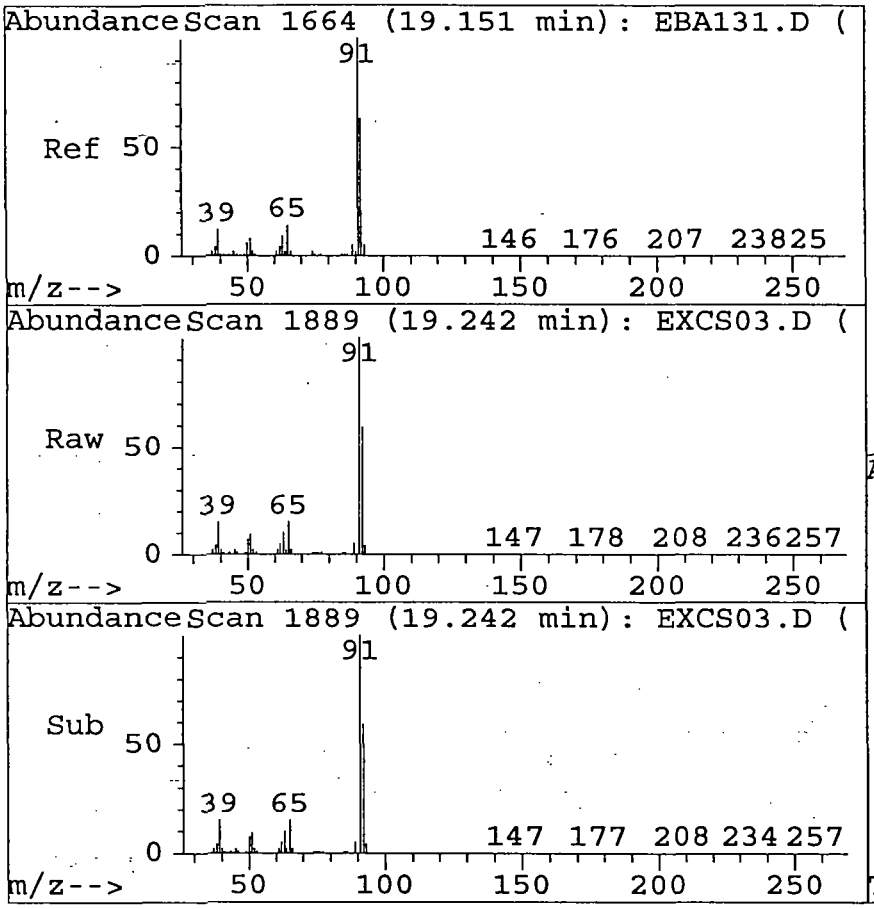
Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS03.D Vial: 6
Acq On : 13 Aug 95 8:44 pm Operator:
Sample : 9508G529-001 EAA813 Inst : gcms5
Misc : GCL#5,DIL=5,5MLSMP+10ULIS+1ULSS+20MLOFW Multiplr: 1.00
Quant Time: Aug 13 21:49 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	16.26	96	264418	1.00	ug/l		0.02
34) Chlorobenzene-d5	22.06	117	202706	1.00	ug/l		0.00
System Monitoring Compounds							%Recovery
42) p-Bromofluorobenzene	24.66	95	166390	1.05	ug/l	m	
56) 1,2-Dichlorobenzene-d4	28.33	152	105643	1.16	ug/l	m	
Target Compounds							Qvalue
26) Toluene	19.24	91	9411918	38.12	ug/l	m	95
36) Ethylbenzene	22.34	106	374693	4.07	ug/l	m	93
37) m,p-xylene	22.34	91	1265662	5.01	ug/l	m	28
39) Styrene	23.50	104	1432429	8.65	ug/l	m	1

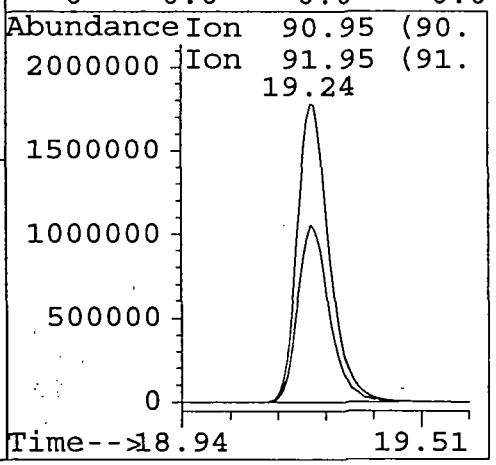
(#) = qualifier out of range (m) = manual integration

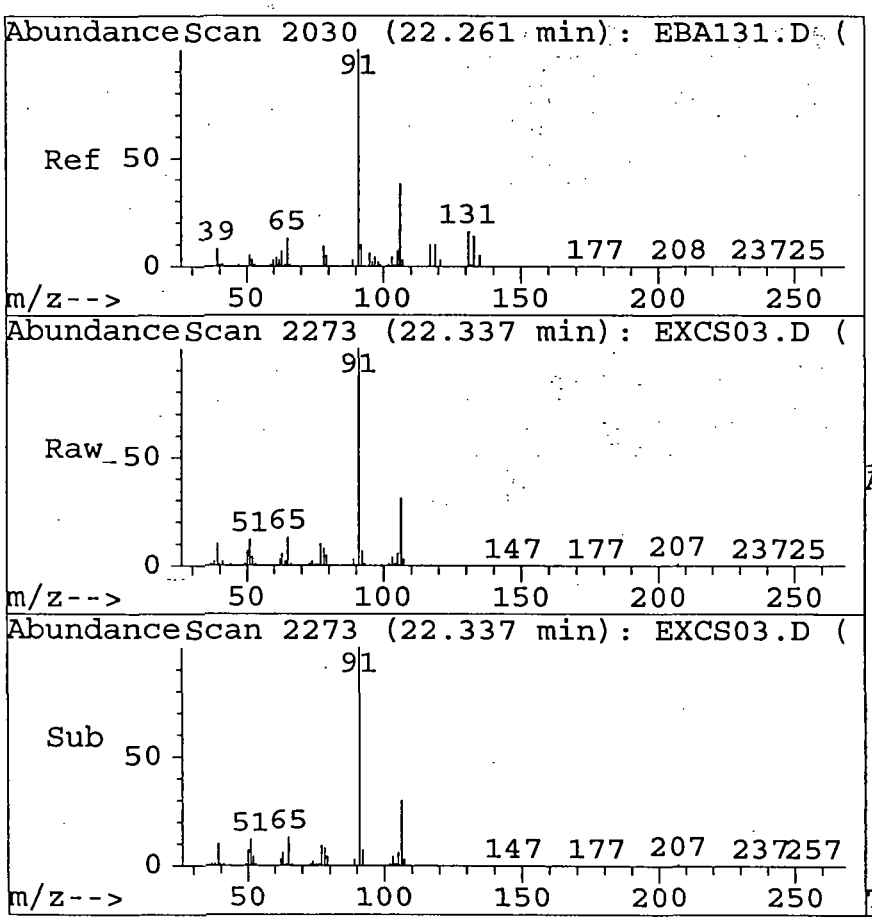


#26
Toluene
Concen: 40.97 ug/l
RT: 19.24 min Scan# 1889
Delta R.T. 0.01 min
Lab File: EXCS03.D
Acq: 13 Aug 95 8:44 pm

Tgt Ion:90.95 Resp: 9411918

Ion	Ratio	Lower	Upper
91	100		
92	58.8	50.1	75.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

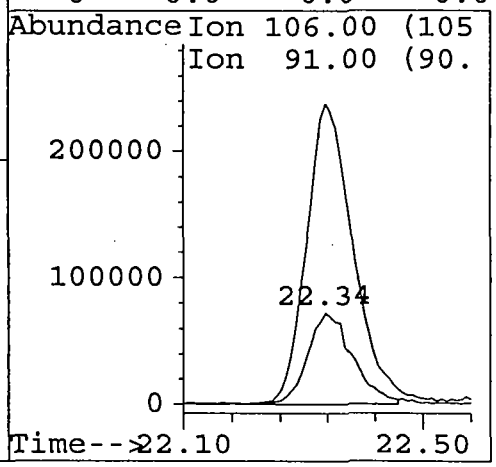


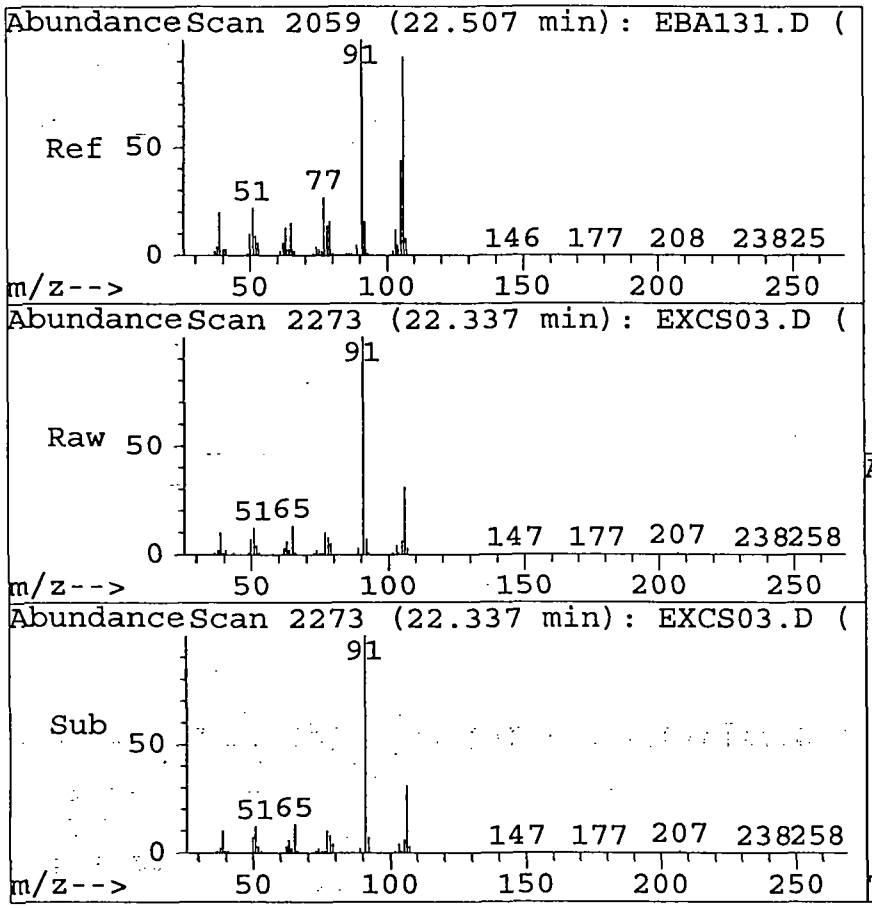


#36
Ethylbenzene
Concen: 4.34 ug/l
RT: 22.34 min Scan# 2273
Delta R.T. 0.01 min
Lab File: EXCS03.D
Acq: 13 Aug 95 8:44 pm

Tgt Ion:106 Resp: 374693

Ion	Ratio	Lower	Upper
106	100		
91	337.9	303.1	343.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

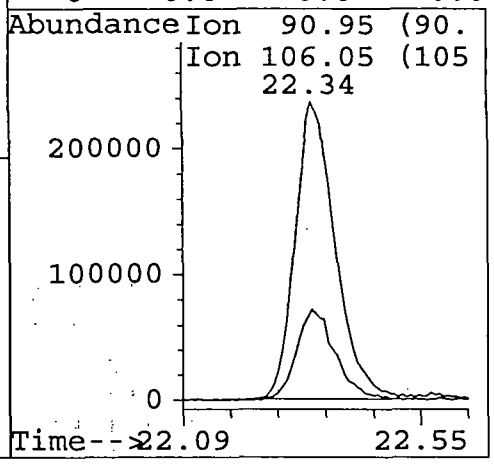


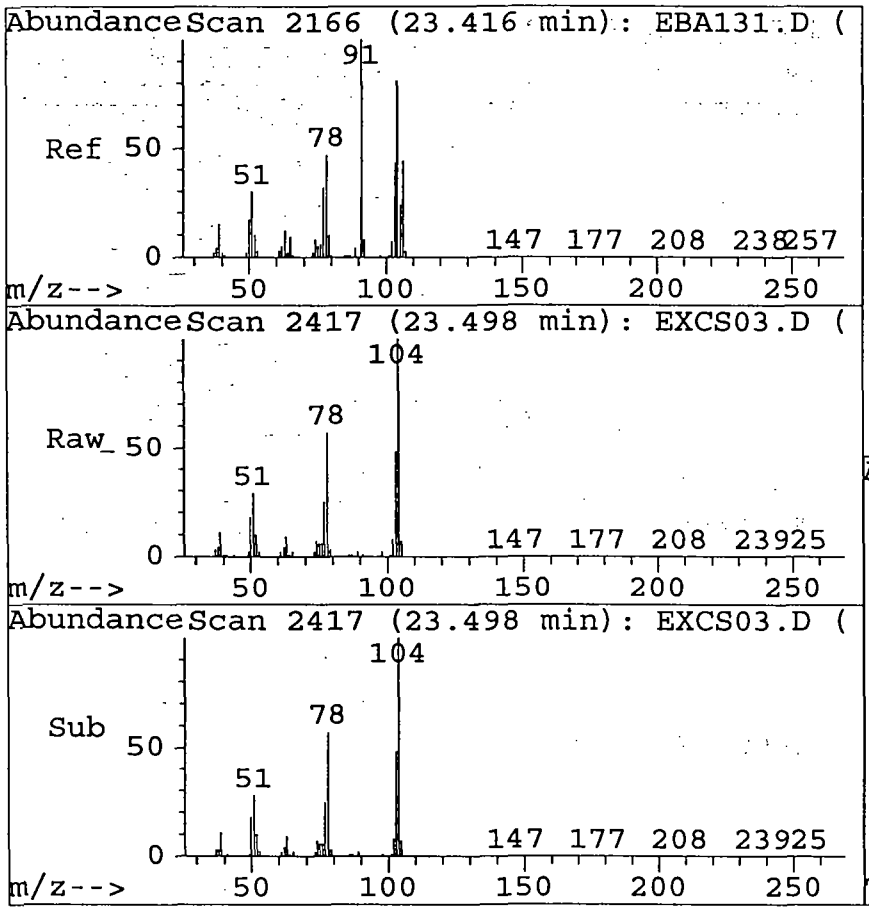


#37
m,p-xylene
Concen: 5.34 ug/l
RT: 22.34 min Scan# 2273
Delta R.T. -0.25 min
Lab File: EXCS03.D
Acq: 13 Aug 95 8:44 pm

Tgt Ion:90.95 Resp: 1265662

Ion	Ratio	Lower	Upper
91	100		
106	29.6	82.0	122.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

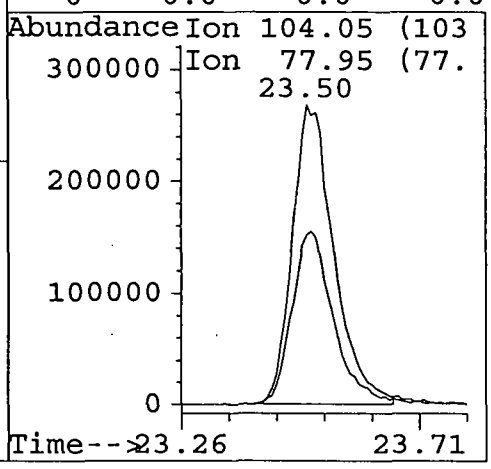




#39
Styrene
Concen: 9.22 ug/l
RT: 23.50 min Scan# 2417
Delta R.T. 0.00 min
Lab File: EXCS03.D
Acq: 13 Aug 95 8:44 pm

Tgt Ion:104.05 Resp: 1432429

Ion	Ratio	Lower	Upper
104	100		
78	57.4	421.7	461.7#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

PD-20DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-001 DL

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS04

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

Dilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-71-8	Dichlorodifluoromethane	NA	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
75-69-4	Trichlorofluoromethane	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
156-59-2	cis-1,2-Dichloroethene	NA	
594-20-7	2,2-Dichloropropane	NA	
156-60-5	trans-1,2-Dichloroethene	NA	
67-66-3	Chloroform	NA	
74-97-5	Bromochloromethane	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
563-58-6	1,1-Dichloropropene	NA	
75-27-4	Bromodichloromethane	NA	
74-95-3	Dibromomethane	NA	
78-87-5	1,2-Dichloropropane	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
106-93-4	1,2-Dibromoethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
142-28-9	1,3-Dichloropropane	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	170	
108-90-7	Chlorobenzene	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
100-41-4	Ethylbenzene	NA	

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

PD-20DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-001 DL

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS04

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

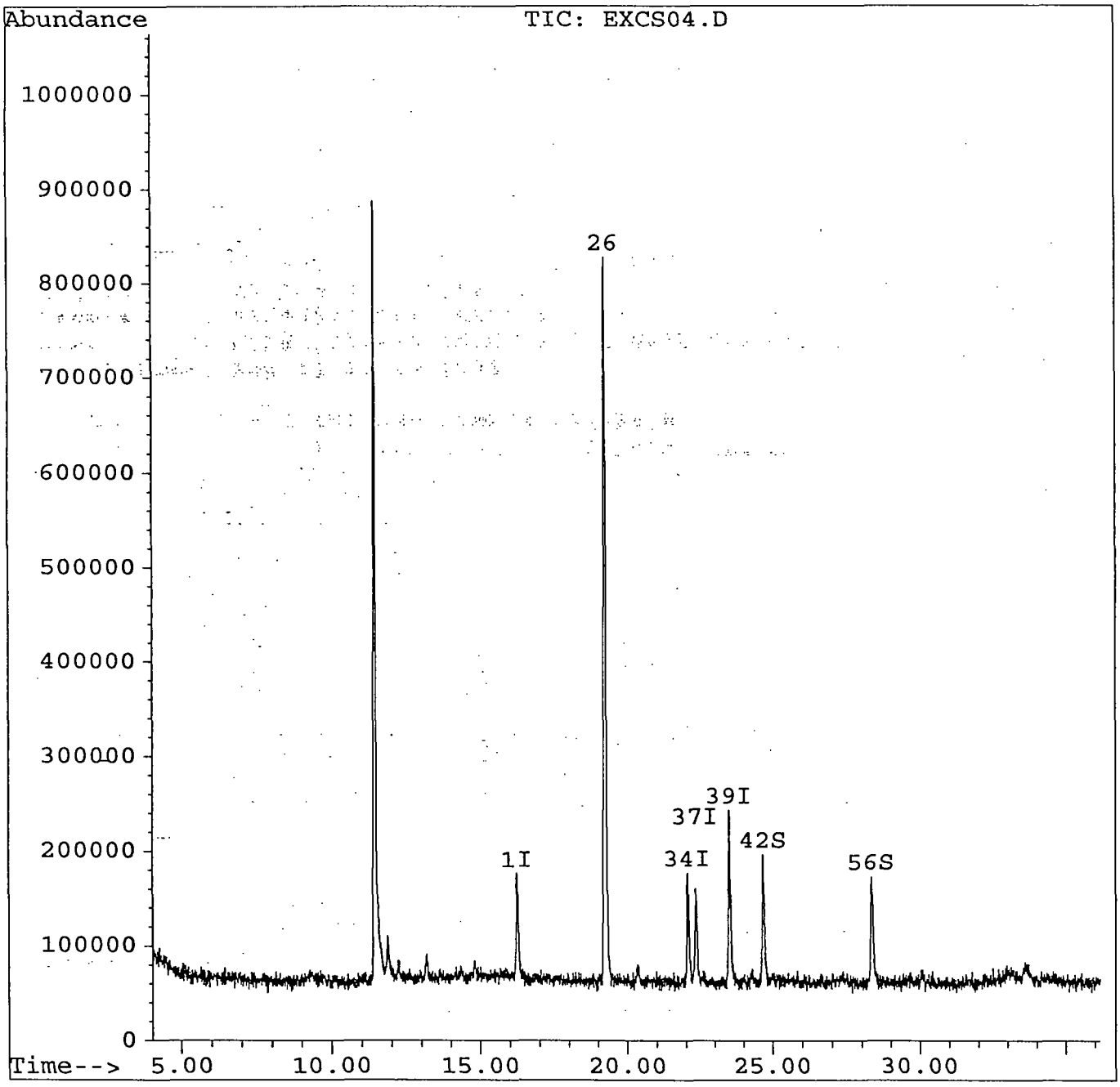
Dilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
100-42-5	Styrene	NA	
000-00-0	m/p-Xylene	NA	
95-47-6	o-Xylene	NA	
108-86-1	Bromobenzene	NA	
96-18-4	1,2,3-Trichloropropane	NA	
98-82-8	Isopropylbenzene	NA	
103-65-1	n-Propylbenzene	NA	
95-49-8	2-Chlorotoluene	NA	
106-43-4	4-Chlorotoluene	NA	
108-67-8	1,3,5-Trimethylbenzene	NA	
98-06-6	tert-Butylbenzene	NA	
95-63-6	1,2,4-Trimethylbenzene	NA	
135-98-8	sec-Butylbenzene	NA	
99-87-6	p-Isopropyltoluene	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
95-50-1	1,2-Dichlorobenzene	NA	
104-51-8	n-Butylbenzene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
120-82-1	1,2,4-Trichlorobenzene	NA	
87-68-3	Hexachlorobutadiene	NA	
91-20-3	Naphthalene	NA	
87-61-6	1,2,3-Trichlorobenzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	

FORM 1 V-2 12/88 Rev.

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS04.D Vial: 6
Acq On : 13 Aug 95 9:52 pm Operator:
Sample : 9508G529-001 EAA813 Inst : gcms5
Misc : GCL#5,DIL=25,1MLSMP+10ULIS+1ULSS+24MLOFW Multiplr: 1.00
Quant Time: Aug 13 22:29 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



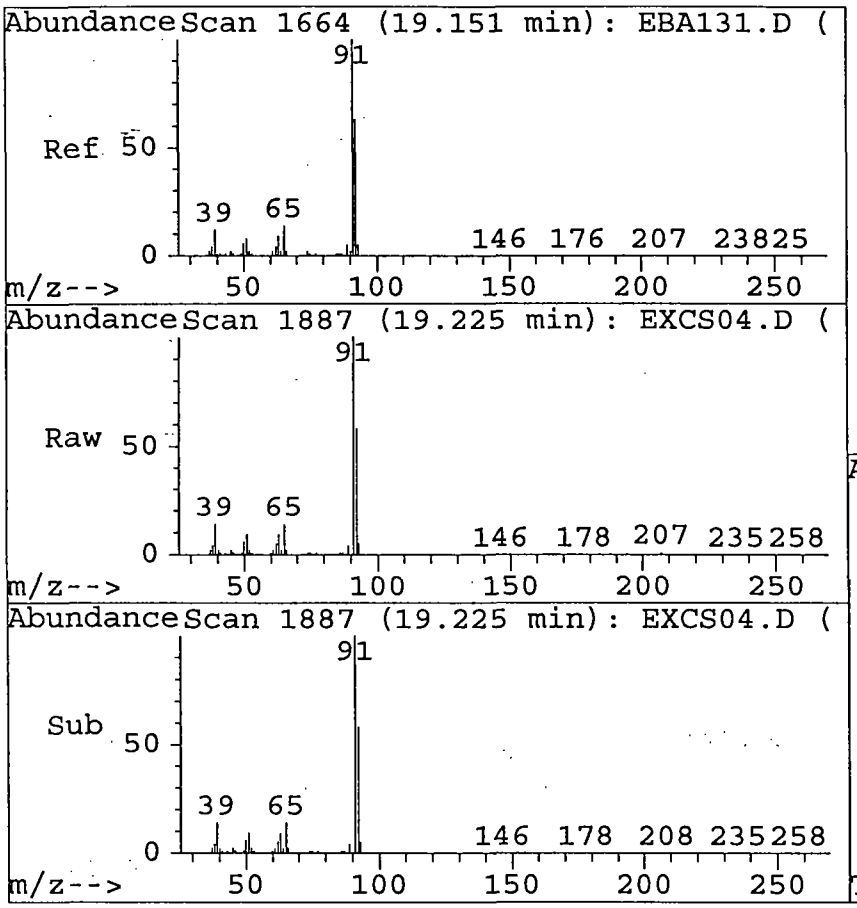
Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS04.D Vial: 6
Acq On : 13 Aug 95 9:52 pm Operator:
Sample : 9508G529-001 / EAA813 Inst : gcms5
Misc : GCL#5,DIL=25,1MLSMP+10ULIS+1ULSS+24MLOFW Multiplr: 1.00
Quant Time: Aug 13 22:29 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	16.24	96	241762	1.00	ug/l		0.00
34) Chlorobenzene-d5	22.05	117	188884	1.00	ug/l		0.00
System Monitoring Compounds							%Recovery
42) p-Bromofluorobenzene	24.67	95	165148	1.11	ug/l	#	
56) 1,2-Dichlorobenzene-d4	28.33	152	70701	0.84	ug/l	#	
Target Compounds							Qvalue
26) Toluene	19.23	91	1569847	6.95	ug/l		95
37) m,p-xylene	22.33	91	206443	0.88	ug/l	#	14
39) Styrene	23.50	104	250336	1.62	ug/l	#	1

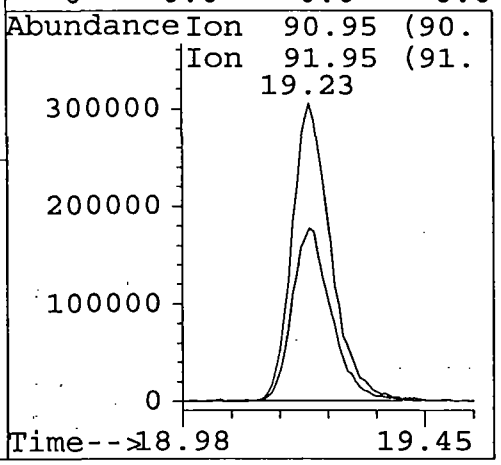
(#) = qualifier out of range (m) = manual integration

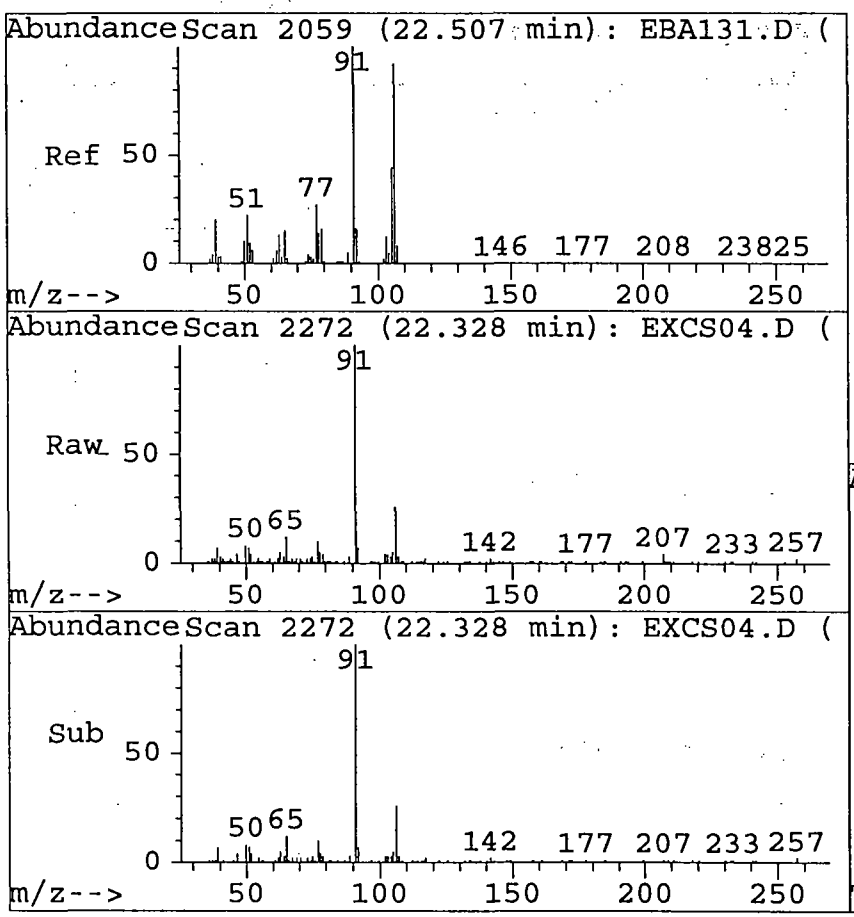


#26
Toluene
Concen: 6.95 ug/l
RT: 19.23 min Scan# 1887
Delta R.T. -0.01 min
Lab File: EXCS04.D
Acq: 13 Aug 95 9:52 pm

Tgt Ion:90.95 Resp: 1569847

Ion	Ratio	Lower	Upper
91	100		
92	58.9	50.1	75.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

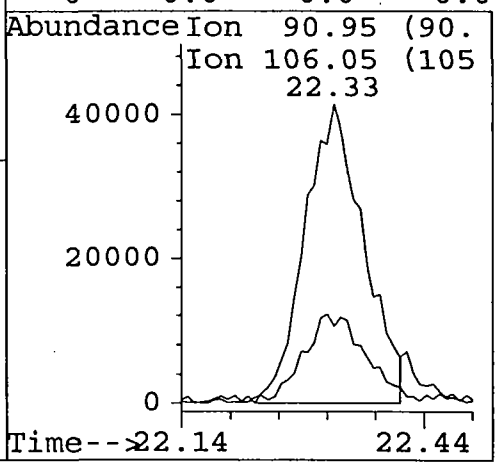




#37
m,p-xylene
Concen: 0.88 ug/l
RT: 22.33 min Scan# 2272
Delta R.T. -0.26 min
Lab File: EXCS04.D
Acq: 13 Aug 95 9:52 pm

Tgt Ion:90.95 Resp: 206443

Ion	Ratio	Lower	Upper
91	100		
106	14.8	82.0	122.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

FB-01

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-003

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS02

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

FB-01

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G529-003

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXCS02

Level: (low/med) LOW

Date Received: 08/12/95

% Moisture: not dec. _____

Date Analyzed: 08/13/95

Column: (pack/cap) CAP

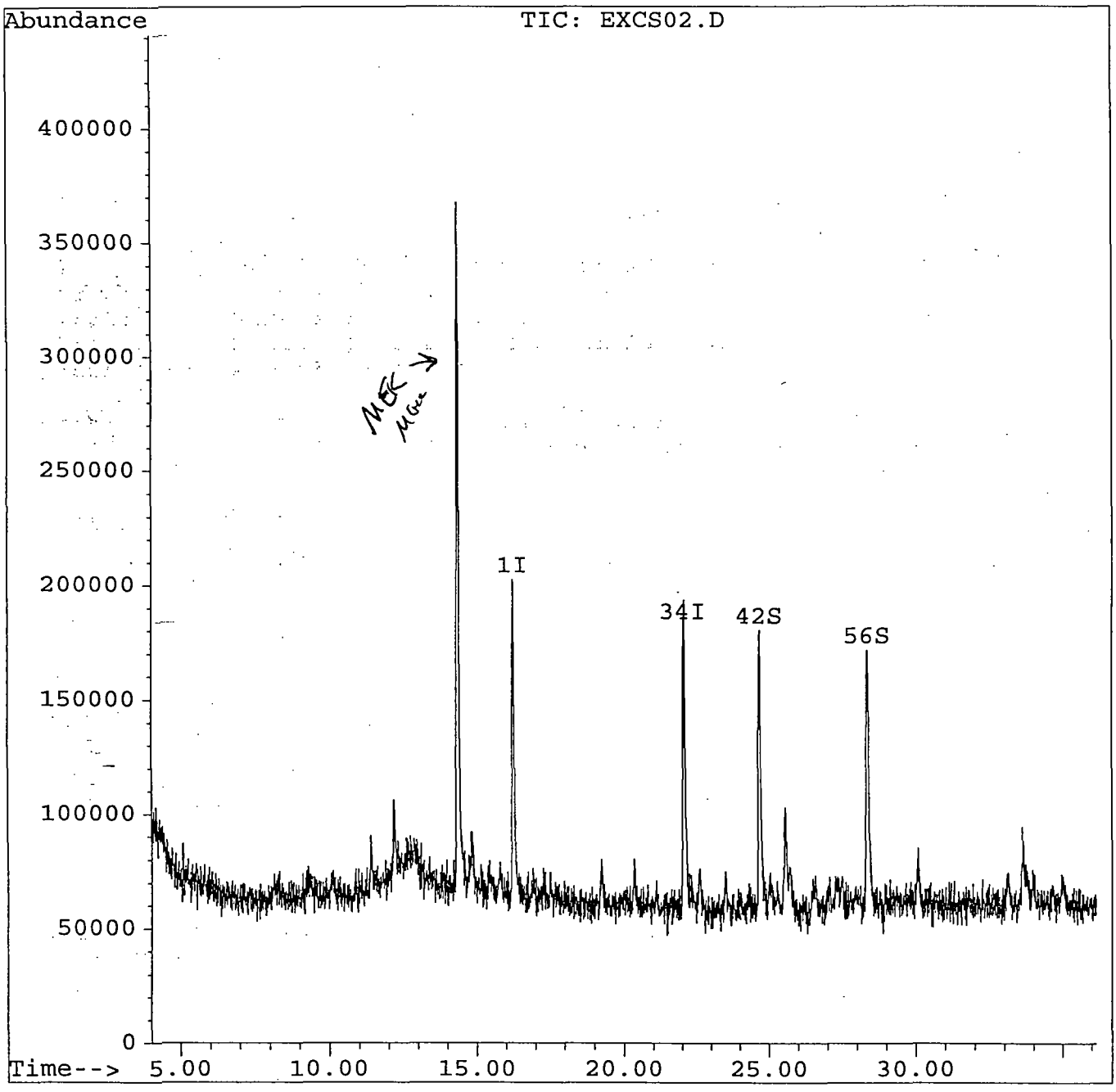
Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS02.D Vial: 5
Acq On : 13 Aug 95 4:36 pm Operator:
Sample : 9508G529-003 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLSMP+10ULIS+1ULSS Multiplr: 1.00
Quant Time: Aug 13 20:28 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\AUG1395\EXCS02.D Vial: 5
Acq On : 13 Aug 95 4:36 pm Operator:
Sample : 9508G529-003 EAA813 Inst : gcms5
Misc : GCL#5,DIL=1,25MLSMP+10ULIS+1ULSS Multiplr: 1.00
Quant Time: Aug 13 20:28 1995

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Aug 13 13:16:20 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	16.25	96	272734 ✓	1.00	ug/l	0.01
34) Chlorobenzene-d5	22.05	117	214912 ✓	1.00	ug/l	0.00
System Monitoring Compounds						%Recovery
42) p-Bromofluorobenzene	24.69	95	154356	0.91	ug/l	m ✓
56) 1,2-Dichlorobenzene-d4	28.36	152	92829	0.96	ug/l	# ✓
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

WESTON® MANAGERS DESIGNERS/CONSULTANTS
Building 300, Suite 325
1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208
404-352-4147 • Fax 404-352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: FILE

FROM: Paula C. MacLaren
Analytical Coordinator

THRU: W. Scott Butterfield
TATL, Region IV

SUBJECT: Pier Drum Site Analytical Data Part II
TDD# 04-9508-L005-0536

DATE: 30 August 1995

Weston Environmental Metrics, Inc. analyzed 6 water samples taken at the Pier Drum Site on 16 August 1995 for the following parameters:

volatiles
RCRA metals
cobalt

The analytical report was received within the required 2-week time period.

All sample analysis hold times were met.

The laboratory blank showed acetone contamination of the analytical process. The concentration has been presented in the attached data summary.

A volatile matrix spike was performed on sample MW-ND2. The results showed 8 out of 59 component percent recoveries slightly exceeding the QA/QC recommendation of 80% to 120%. The matrix spike duplicate showed 2 out of 59 spike recoveries below 80%. The laboratory

control sample percent recoveries were all within method QC limits thereby verifying the analytical process. All sample surrogate recoveries were within method QC limits.

A metals matrix spike was performed on sample MW-ND2. All component percent recoveries were within the QA/QC guidelines of 80% to 120%. All laboratory control sample percent recoveries were within the recommendation.

A summary of the sample data can be found on the following pages.

cc. Jim Webster
John Wright

PIER DRUM SITE
ANALYTICAL DATA

WATER SAMPLES

VOLATILES (ug/L)

SAMPLE ID	MW-ND2	MW-E2	MW-S2	MW-W2	Lab Blank
Acetone	ND	450B	ND	ND	300**

RCRA METALS/ COBALT (ug/L)

Arsenic	6.5/7.0*	22	ND	9.8	ND
Barium	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND
Lead	2.1/2.5*	2.7	8.5	6.0	ND
Mercury	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND

Notes:
ND - Not detected
B - The compound was present in the laboratory blank
* - Duplicate analysis
** - Sample dilution factor applied

PIER DRUM SITE
ANALYTICAL DATA

WATER SAMPLES

VOLATILES (ug/L)

SAMPLE ID	MW-N2	EP-2	Lab Blank
Acetone	ND	420B	150**
Ethylbenzene	ND	3	ND

RCRA METALS/ COBALT (ug/L)

Arsenic	6.4	26	ND
Barium	ND	ND	ND
Cadmium	ND	ND	ND
Chromium	ND	ND	ND
Cobalt	ND	ND	ND
Lead	19	10	ND
Mercury	ND	ND	ND
Selenium	ND	ND	ND
Silver	ND	ND	ND

Notes:
ND - Not detected
B - The compound was present in the laboratory blank
** - Sample dilution factor applied

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
® 708-534-5200 • Fax 708-534-5211

MANAGERS DESIGNERS/CONSULTANTS

RECEIVED
AUG 2 8 1995

August 25, 1995

Ms. Paula MacLaren
Roy F. Weston, Inc.
1575 Northside Drive NW
Building 300, Suite 325
Atlanta, GA 30318-4208

RE: Pier Drum Site
RFW Lot 9508G630

Dear Ms. MacLaren:

Enclosed is the Analytical Report for the Project and RFW Lot Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

Weston Environmental Metrics, Inc.

Eric A. Lang
Project Manager

sj

Enclosures

Approved By:

Michael J. Healy
Vice President/Laboratory Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All 190 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
T	Compound was found in the TCLP extraction blank and the sample
U	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Weston laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character WESTON laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate analyses
RRF	Relative response factor
RT	Retention time
RTW	Retention time widow
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. WESTON code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

Revised 12/09/94

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G630

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
MW-ND2							
SILVER, SERIAL DILUT	001 L	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	001	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	001 REP	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	001 MS	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	001	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
ARSENIC, TOTAL	001 REP	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
ARSENIC, TOTAL	001 MS	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
BARIUM, SERIAL DILUT	001 L	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	001	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	001 REP	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	001 MS	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, SERIAL DILU	001 L	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	001	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	001 REP	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	001 MS	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, SERIAL DILUT	001 L	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	001	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	001 REP	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	001 MS	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, SERIAL DIL	001 L	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	001	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	001 REP	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	001 MS	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	001	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	001 REP	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	001 MS	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	001	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
LEAD, TOTAL	001 REP	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
LEAD, TOTAL	001 MS	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	001	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	001 REP	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	001 MS	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
MW-E2							
SILVER, TOTAL	002	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	002	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G630

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
BARIUM, TOTAL	002	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	002	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	002	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	002	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	002	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	002	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	002	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
MW-S2							
SILVER, TOTAL	003	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	003	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
BARIUM, TOTAL	003	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	003	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	003	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	003	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	003	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	003	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	003	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
MW-W2							
SILVER, TOTAL	004	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	004	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
BARIUM, TOTAL	004	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	004	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	004	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	004	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	004	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	004	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	004	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
MW-N2							
SILVER, TOTAL	005	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	005	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
BARIUM, TOTAL	005	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	005	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	005	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	005	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G630

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
MERCURY, TOTAL	005	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	005	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	005	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
EP-2							
SILVER, TOTAL	006	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	006	W	95GF097	08/16/95	08/18/95	08/21/95	08/23/95
BARIUM, TOTAL	006	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	006	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	006	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	006	W	95GI995	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	006	W	95HG444	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	006	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	006	W	95GF097	08/16/95	08/18/95	08/21/95	08/22/95
LAB QC:							
SILVER LABORATORY	LC1 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
BARIUM LABORATORY	LC1 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
CADMIUM LABORATORY	LC1 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
COBALT LABORATORY	LC1 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
CHROMIUM LABORATORY	LC1 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
SILVER LABORATORY	LC2 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
BARIUM LABORATORY	LC2 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
CADMIUM LABORATORY	LC2 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
COBALT LABORATORY	LC2 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
CHROMIUM LABORATORY	LC2 BS	W	95GI995	N/A	N/A	08/21/95	08/22/95
SILVER, TOTAL	MB1	W	95GI995	N/A	N/A	08/21/95	08/22/95
BARIUM, TOTAL	MB1	W	95GI995	N/A	N/A	08/21/95	08/22/95
CADMIUM, TOTAL	MB1	W	95GI995	N/A	N/A	08/21/95	08/22/95
COBALT, TOTAL	MB1	W	95GI995	N/A	N/A	08/21/95	08/22/95
CHROMIUM, TOTAL	MB1	W	95GI995	N/A	N/A	08/21/95	08/22/95
ARSENIC LABORATORY	LC1 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95
LEAD LABORATORY	LC1 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95
SELENIUM LABORATORY	LC1 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95
ARSENIC LABORATORY	LC2 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G630

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
LEAD LABORATORY	LC2 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95
SELENIUM LABORATORY	LC2 BS	W	95GF097	N/A	N/A	08/21/95	08/22/95
ARSENIC, TOTAL	MB1	W	95GF097	N/A	N/A	08/21/95	08/22/95
LEAD, TOTAL	MB1	W	95GF097	N/A	N/A	08/21/95	08/22/95
SELENIUM, TOTAL	MB1	W	95GF097	N/A	N/A	08/21/95	08/22/95
MERCURY LABORATORY	LC1 BS	W	95HG444	N/A	N/A	08/21/95	08/21/95
MERCURY LABORATORY	LC2 BS	W	95HG444	N/A	N/A	08/21/95	08/21/95
MERCURY, TOTAL	MB1	W	95HG444	N/A	N/A	08/21/95	08/21/95

SIGNATURE Cynthia L. Ayer DATE 8/25/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
METALS CASE NARRATIVE

Client: TAT-Pier Drum Site
RFW#: 9508G630
SDG#: N/A

W.O.#: 00000-000-000-0000
Date Rec'd: 08/18/95

1. This narrative covers the analysis of 6 water samples for the following metals:

   ICP ..... Ag,Ba,Cd,Co,Cr
   GFAA ..... As,Pb,Se
   Cold vapor. Hg

   Method Ref: USEPA SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below reporting limits.

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. Two Laboratory Control Samples (LCS) were prepared with each digestion batch. Both results were within the 80-120% control limits.

8. All Matrix Spike recoveries were within the 75-125% control limits.

9. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits.

Mani S. Iyer

Mani S.Iyer
Metals Section Manager

8/25/95
Date

Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot : 95086630

METALS METHODS

SOW	____ ILM03.0			
Aluminum	____ SW846 6010	____ EPA 200.7		
Antimony	____ SW846 6010	____ EPA 200.7	____ SW846 7041	____ EPA 204.2
Arsenic	____ SW846 6010	____ EPA 200.7	✓ SW846 7060	____ EPA 206.2
Barium	✓ SW846 6010	____ EPA 200.7		
Beryllium	____ SW846 6010	____ EPA 200.7		
Boron	____ SW846 6010	____ EPA 200.7		
Cadmium	✓ SW846 6010	____ EPA 200.7	____ SW846 7131	____ EPA 213.2
Calcium	____ SW846 6010	____ EPA 200.7		
Chromium	✓ SW846 6010	____ EPA 200.7	____ SW846 7191	____ EPA 218.2
Cobalt	✓ SW846 6010	____ EPA 200.7		
Copper	____ SW846 6010	____ EPA 200.7	____ SW846 7211	____ EPA 220.2
Iron	____ SW846 6010	____ EPA 200.7		
Lead	____ SW846 6010	____ EPA 200.7	✓ SW846 7421	____ EPA 239.2
Lithium	____ SW846 6010	____ EPA 200.7		
Magnesium	____ SW846 6010	____ EPA 200.7		
Manganese	____ SW846 6010	____ EPA 200.7		
Mercury	✓ SW846 7470	____ EPA 245.1		
Mercury	____ SW846 7471	____ EPA 245.5		
Molybdenum	____ SW846 6010	____ EPA 200.7		
Nickel	____ SW846 6010	____ EPA 200.7		
Potassium	____ SW846 6010	____ EPA 200.7		
Selenium	____ SW846 6010	____ EPA 200.7	✓ SW846 7740	____ EPA 270.2
Silicon	____ SW846 6010	____ EPA 200.7		
Silver	✓ SW846 6010	____ EPA 200.7	____ SW846 7761	____ EPA 272.2
Sodium	____ SW846 6010	____ EPA 200.7		
Strontium	____ SW846 6010	____ EPA 200.7		
Thallium	____ SW846 6010	____ EPA 200.7	____ SW846 7841	____ EPA 279.2
Tin	____ SW846 6010	____ EPA 200.7		
Titanium	____ SW846 6010	____ EPA 200.7		
Vanadium	____ SW846 6010	____ EPA 200.7		
Zinc	____ SW846 6010	____ EPA 200.7		

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: MW-ND2
Project # 00000-000-000-0000
Lab ID: 9508G630-001
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.0065	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.0021	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.022	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.0027	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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Roy F. Weston, Incorporated
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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: MW-S2
Project # 00000-000-000-0000
Lab ID: 9508G630-003
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.0020 u	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.0085	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: MW-W2
Project # 00000-000-000-0000
Lab ID: 9508G630-004
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.0098	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.0060	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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To: TAT-Pier Drum Site
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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: MW-N2
Project # 00000-000-000-0000
Lab ID: 9508G630-005
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.0064	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.019	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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To: TAT-Pier Drum Site
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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.010 u	mg/L	0.010
Arsenic, Total	0.026	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Cobalt, Total	0.020 u	mg/L	0.020
Chromium, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Lead, Total	0.010	mg/L	0.0020
Selenium, Total	0.0020 u	mg/L	0.0020

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G630

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	95GI995-MB1	Silver, Total	0.010	u	mg/L	0.010
		Barium, Total	0.050	u	mg/L	0.050
		Cadmium, Total	0.010	u	mg/L	0.010
		Cobalt, Total	0.020	u	mg/L	0.020
		Chromium, Total	0.020	u	mg/L	0.020
Blank 1	95GF097-MB1	Arsenic, Total	0.0020	u	mg/L	0.0020
		Lead, Total	0.0020	u	mg/L	0.0020
		Selenium, Total	0.0020	u	mg/L	0.0020
Blank 1	95HG444-MB1	Mercury, Total	0.00020	u	mg/L	0.00020

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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G630

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-001REP	MW-ND2	Silver, Total	0.010 u	0.010 u	NC
		Arsenic, Total	0.0065	0.0070	7.0
		Barium, Total	0.050 u	0.050 u	NC
		Cadmium, Total	0.010 u	0.010 u	NC
		Cobalt, Total	0.020 u	0.020 u	NC
		Chromium, Total	0.020 u	0.020 u	NC
		Mercury, Total	0.00020 u	0.00020 u	NC
		Lead, Total	0.0021	0.0025	16.8
		Selenium, Total	0.0020 u	0.0020 u	NC

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G630

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	MW-ND2	Silver, Total	0.043	0.010	u	0.050	86.0
		Arsenic, Total	0.048	0.0065		0.040	104
		Barium, Total	1.9	0.050	u	2.0	94.2
		Cadmium, Total	0.046	0.010	u	0.050	92.5
		Cobalt, Total	0.47	0.020	u	0.50	94.8
		Chromium, Total	0.19	0.020	u	0.20	94.6
		Mercury, Total	0.0010	0.00020	u	0.0010	104
		Lead, Total	0.024	0.0021		0.020	107
		Selenium, Total	0.011	0.0020	u	0.010	110

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Friday August 25th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G630

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
95GI995-LC1	Silver, LCS	0.050	mg/L	84.9	84.7	0.24
	Barium, LCS	2.0	mg/L	92.0	92.4	0.41
	Cadmium, LCS	0.050	mg/L	96.0	95.8	0.23
	Cobalt, LCS	0.50	mg/L	93.8	94.3	0.55
	Chromium, LCS	0.20	mg/L	92.2	92.7	0.44
95GF097-LC1	Arsenic, LCS	0.040	mg/L	105	104	1.3
	Lead, LCS	0.020	mg/L	106	118	11.1
	Selenium, LCS	0.010	mg/L	93.3	97.0	3.9
95HG444-LC1	Mercury, LCS	0.0020	mg/L	93.0	95.6	2.9

Weston Environmental Metrics, Inc.
524D ANALYTICAL DATA PACKAGE FOR --
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G630

CLIENT ID	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
MW-ND2	001	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-ND2	001 MS	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-ND2	001 MSD	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-E2	002	W	95GVE245	08/16/95	08/18/95	N/A	08/21/95
MW-E2	002 D1	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-S2	003	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-W2	004	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
MW-N2	005	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
EP-2	006	W	95GVE246	08/16/95	08/18/95	N/A	08/22/95
EP-2	006 D1	W	95GVE247	08/16/95	08/18/95	N/A	08/23/95
LAB QC:							
VBLK	MB1	W	95GVE246	N/A	N/A	N/A	08/21/95
VBLK	MB1 BS	W	95GVE246	N/A	N/A	N/A	08/22/95
VBLK	MB1	W	95GVE245	N/A	N/A	N/A	08/21/95
VBLK	MB1 BS	W	95GVE245	N/A	N/A	N/A	08/21/95
VBLK	MB1	W	95GVE247	N/A	N/A	N/A	08/22/95
VBLK	MB1 BS	W	95GVE247	N/A	N/A	N/A	08/22/95

SIGNATURE Marilyn Kinsley DATE 8/24/95

NY CERTIFICATION # 11006

WESTON MANAGERS DESIGNERS/CONSULTANTS

Weston Environmental Metrics, Inc.
GC/MS Case Narrative

TAT -Pier Drum Site
RFW# 9508G630
VOA DATA:

1. All analyses were performed within the Method hold times.

2. All Method Blank target compounds were below reporting limits, except for low levels of acetone. All same hits are appropriately flagged with a "B".

3. All LCS (Method Blank Spike) recoveries values in the volatile analyses were within QC limits, except for three recoveries for methylene chloride, hexachlorobutadiene and 2,2-dichloropropane.

4. Matrix Spike analyses were conducted on sample -001. There were 10 recoveries outside limits. All same targets were within limits in the LCS samples except for the compound hexachlorobutadiene. The compound was not detected in any samples. All targets detected in samples were within limits.

5. All surrogate recoveries in the volatile analyses were within QC limits.

6. All analyses were performed following EPA Method 524.2. A single-point calibration was done for the compound acetone. The detection limit has been based on an MDL study. All calibration criteria were met except for one slightly high %DIFF for the compound 1,2-dibromo-3-chloropropane (30.6%). It was not detected in any sample.

7. All of the samples were analyzed with a 25ml purge volume to meet required reporting limits. Sample -002 and -006 were analyzed at initial dilutions do to suspected high levels of acetone. Both samples required further dilutions to accurately quantitate this compound. All reporting limits and concentrations were adjusted for the dilutions.

8. All internal standard areas and retention times are within limits.

Marilyn Krueding
GC/MS Section Manager

8/24/95
Date

Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS METHODS

Volatiles	____ SW846 8240
	____ SW846 8260
	____ EPA 524.2
	____ EPA 624
	____ CLP SOW 2/88
	____ OLMO1.8
Semi-Volatiles	____ SW846 8270
	____ EPA 625
	____ CLP SOW 2/88
	____ OLMO1.8

updated May 15, 1995

MANAGERS DESIGNERS/CONSULTANTS

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-ND2
Project # 00000-000-000-0000
Lab ID: 9508G630-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Bromomethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Chloroethane	BRL	0.5	U
Methylene Chloride	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
Chloroform	BRL	0.5	U
Bromochloromethane	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U

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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-ND2
Project # 00000-000-000-0000
Lab ID: 9508G630-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Benzene	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Bromoform	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Toluene	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U

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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-ND2
Project # 00000-000-000-0000
Lab ID: 9508G630-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
4-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U

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2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-ND2
Project # 00000-000-000-0000
Lab ID: 9508G630-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
Acetone	BRL	2	U

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	5	U
Chloromethane	BRL	5	U
Bromomethane	BRL	5	U
Vinyl chloride	BRL	5	U
Chloroethane	BRL	5	U
Methylene Chloride	BRL	5	U
Trichlorofluoromethane	BRL	5	U
1,1-Dichloroethene	BRL	5	U
1,1-Dichloroethane	BRL	5	U
cis-1,2-Dichloroethene	BRL	5	U
2,2-Dichloropropane	BRL	5	U
trans-1,2-Dichloroethene	BRL	5	U
Chloroform	BRL	5	U
Bromochloromethane	BRL	5	U
1,2-Dichloroethane	BRL	5	U
1,1,1-Trichloroethane	BRL	5	U
Carbon Tetrachloride	BRL	5	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	5	U
Bromodichloromethane	BRL	5	U
Dibromomethane	BRL	5	U
1,2-Dichloropropane	BRL	5	U
Trichloroethene	BRL	5	U
Dibromochloromethane	BRL	5	U
1,2-Dibromoethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
1,3-Dichloropropane	BRL	5	U
Bromoform	BRL	5	U
Tetrachloroethene	BRL	5	U
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
1,1,1,2-Tetrachloroethane	BRL	5	U
Ethylbenzene	BRL	5	U

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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	5	U
m/p-Xylene	BRL	5	U
o-Xylene	BRL	5	U
Bromobenzene	BRL	5	U
1,2,3-Trichloropropane	BRL	5	U
Isopropylbenzene	BRL	5	U
n-Propylbenzene	BRL	5	U
2-Chlorotoluene	BRL	5	U
4-Chlorotoluene	BRL	5	U
1,3,5-Trimethylbenzene	BRL	5	U
tert-Butylbenzene	BRL	5	U
1,2,4-Trimethylbenzene	BRL	5	U
sec-Butylbenzene	BRL	5	U
p-Isopropyltoluene	BRL	5	U
1,3-Dichlorobenzene	BRL	5	U
1,4-Dichlorobenzene	BRL	5	U
1,2-Dichlorobenzene	BRL	5	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	5	U
1,2-Dibromo-3-chloropropane	BRL	5	U
1,2,4-Trichlorobenzene	BRL	5	U
Hexachlorobutadiene	BRL	5	U
Naphthalene	BRL	5	U
1,2,3-Trichlorobenzene	BRL	5	U
cis-1,3-Dichloropropene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Acetone	E	20	

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-E2
Project # 00000-000-000-0000
Lab ID: 9508G630-002 DL
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Acetone	450	100	B

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-S2
Project # 00000-000-000-0000
Lab ID: 9508G630-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Bromomethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Chloroethane	BRL	0.5	U
Methylene Chloride	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
Chloroform	BRL	0.5	U
Bromochloromethane	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-S2
Project # 00000-000-000-0000
Lab ID: 9508G630-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Benzene	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Bromoform	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Toluene	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U

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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-S2
Project # 00000-000-000-0000
Lab ID: 9508G630-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
4-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U

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Date: Thursday August 24th, 1995

RE: MW-S2
Project # 00000-000-000-0000
Lab ID: 9508G630-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
Acetone	BRL	2	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-W2
Project # 00000-000-000-0000
Lab ID: 9508G630-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Bromomethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Chloroethane	BRL	0.5	U
Methylene Chloride	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
Chloroform	BRL	0.5	U
Bromochloromethane	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-W2
Project # 00000-000-000-0000
Lab ID: 9508G630-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Benzene	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Bromoform	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Toluene	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-W2
Project # 00000-000-000-0000
Lab ID: 9508G630-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
4-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U

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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-W2
Project # 00000-000-000-0000
Lab ID: 9508G630-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
Acetone	BRL	2	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-N2
Project # 00000-000-000-0000
Lab ID: 9508G630-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Bromomethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Chloroethane	BRL	0.5	U
Methylene Chloride	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
Chloroform	BRL	0.5	U
Bromochloromethane	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-N2
Project # 00000-000-000-0000
Lab ID: 9508G630-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Benzene	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Bromoform	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Toluene	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-N2
Project # 00000-000-000-0000
Lab ID: 9508G630-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
4-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: MW-N2
Project # 00000-000-000-0000
Lab ID: 9508G630-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
Acetone	BRL	2	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	2	U
Chloromethane	BRL	2	U
Bromomethane	BRL	2	U
Vinyl chloride	BRL	2	U
Chloroethane	BRL	2	U
Methylene Chloride	BRL	2	U
Trichlorofluoromethane	BRL	2	U
1,1-Dichloroethene	BRL	2	U
1,1-Dichloroethane	BRL	2	U
cis-1,2-Dichloroethene	BRL	2	U
2,2-Dichloropropane	BRL	2	U
trans-1,2-Dichloroethene	BRL	2	U
Chloroform	BRL	2	U
Bromochloromethane	BRL	2	U
1,2-Dichloroethane	BRL	2	U
1,1,1-Trichloroethane	BRL	2	U
Carbon Tetrachloride	BRL	2	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloropropene	BRL	2	U
Bromodichloromethane	BRL	2	U
Dibromomethane	BRL	2	U
1,2-Dichloropropane	BRL	2	U
Trichloroethene	BRL	2	U
Dibromochloromethane	BRL	2	U
1,2-Dibromoethane	BRL	2	U
1,1,2-Trichloroethane	BRL	2	U
Benzene	BRL	2	U
1,3-Dichloropropane	BRL	2	U
Bromoform	BRL	2	U
Tetrachloroethene	BRL	2	U
1,1,2,2-Tetrachloroethane	BRL	2	U
Toluene	BRL	2	U
Chlorobenzene	BRL	2	U
1,1,1,2-Tetrachloroethane	BRL	2	U
Ethylbenzene	3	2	

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1575 Northside Drive, NW
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Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Styrene	BRL	2	U
m/p-Xylene	BRL	2	U
o-Xylene	BRL	2	U
Bromobenzene	BRL	2	U
1,2,3-Trichloropropane	BRL	2	U
Isopropylbenzene	BRL	2	U
n-Propylbenzene	BRL	2	U
2-Chlorotoluene	BRL	2	U
4-Chlorotoluene	BRL	2	U
1,3,5-Trimethylbenzene	BRL	2	U
tert-Butylbenzene	BRL	2	U
1,2,4-Trimethylbenzene	BRL	2	U
sec-Butylbenzene	BRL	2	U
p-Isopropyltoluene	BRL	2	U
1,3-Dichlorobenzene	BRL	2	U
1,4-Dichlorobenzene	BRL	2	U
1,2-Dichlorobenzene	BRL	2	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
n-Butylbenzene	BRL	2	U
1,2-Dibromo-3-chloropropane	BRL	2	U
1,2,4-Trichlorobenzene	BRL	2	U
Hexachlorobutadiene	BRL	2	U
Naphthalene	BRL	2	U
1,2,3-Trichlorobenzene	BRL	2	U
cis-1,3-Dichloropropene	BRL	2	U
trans-1,3-Dichloropropene	BRL	2	U
Acetone	300	10	B

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Thursday August 24th, 1995

RE: EP-2
Project # 00000-000-000-0000
Lab ID: 9508G630-006 DL
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Reporting Limit	Flag
Acetone	420	50	B

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, METHOD 524 LIST

RFW Batch Number: 9508G630 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/24/95 11:02 Page: 1a

	Cust ID:	MW-ND2	MW-ND2	MW-ND2	MW-E2	MW-E2	MW-S2
Sample Information	RFW#:	001	001 MS	001 MSD	002	002 DL	003
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1	1	1	10	50	1
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Surrogate	4-Bromofluorobenzene	94 %	105 %	100 %	106 %	96 %	97 %
Surrogate	1,2-Dichlorobenzene-d4	88 %	108 %	107 %	107 %	89 %	96 %
		fl	fl	fl	fl	fl	fl
Dichlorodifluoromethane		0.5 U	105 %	108 %	5 U	NA	0.5 U
Chloromethane		0.5 U	63 %	71 %	5 U	NA	0.5 U
Bromomethane		0.5 U	75 %	79 %	5 U	NA	0.5 U
Vinyl chloride		0.5 U	90 %	98 %	5 U	NA	0.5 U
Chloroethane		0.5 U	75 %	82 %	5 U	NA	0.5 U
Methylene Chloride		0.5 U	94 %	106 %	5 U	NA	0.5 U
Trichlorofluoromethane		0.5 U	89 %	95 %	5 U	NA	0.5 U
1,1-Dichloroethene		0.5 U	90 %	100 %	5 U	NA	0.5 U
1,1-Dichloroethane		0.5 U	90 %	96 %	5 U	NA	0.5 U
cis-1,2-Dichloroethene		0.5 U	95 %	96 %	5 U	NA	0.5 U
2,2-Dichloropropane		0.5 U	93 %	99 %	5 U	NA	0.5 U
trans-1,2-Dichloroethene		0.5 U	94 %	97 %	5 U	NA	0.5 U
Chloroform		0.5 U	94 %	100 %	5 U	NA	0.5 U
Bromochloromethane		0.5 U	82 %	86 %	5 U	NA	0.5 U
1,2-Dichloroethane		0.5 U	79 * %	85 %	5 U	NA	0.5 U
1,1,1-Trichloroethane		0.5 U	96 %	101 %	5 U	NA	0.5 U
Carbon Tetrachloride		0.5 U	93 %	97 %	5 U	NA	0.5 U
1,1-Dichloropropene		0.5 U	89 %	103 %	5 U	NA	0.5 U
Bromodichloromethane		0.5 U	82 %	90 %	5 U	NA	0.5 U
Dibromomethane		0.5 U	68 * %	76 * %	5 U	NA	0.5 U
1,2-Dichloropropane		0.5 U	85 %	93 %	5 U	NA	0.5 U
Trichloroethene		0.5 U	87 %	100 %	5 U	NA	0.5 U
Dibromochloromethane		0.5 U	76 * %	84 %	5 U	NA	0.5 U
1,2-Dibromoethane		0.5 U	75 * %	82 %	5 U	NA	0.5 U
1,1,2-Trichloroethane		0.5 U	83 %	88 %	5 U	NA	0.5 U
Benzene		0.5 U	93 %	98 %	5 U	NA	0.5 U
1,3-Dichloropropane		0.5 U	82 %	87 %	5 U	NA	0.5 U
Bromoform		0.5 U	80 %	90 %	5 U	NA	0.5 U
Tetrachloroethene		0.5 U	96 %	98 %	5 U	NA	0.5 U
1,1,2,2-Tetrachloroethane		0.5 U	88 %	92 %	5 U	NA	0.5 U

*= Outside of EPA CLP QC limits.

Cust ID:	MW-ND2	MW-ND2	MW-ND2	MW-E2	MW-E2	MW-S2
RFW#:	001	001 MS	001 MSD	002	002 DL	003
Toluene	0.5 U	93 %	98 %	5 U	NA	0.5 U
Chlorobenzene	0.5 U	88 %	92 %	5 U	NA	0.5 U
1,1,1,2-Tetrachloroethane	0.5 U	93 %	100 %	5 U	NA	0.5 U
Ethylbenzene	0.5 U	103 %	110 %	5 U	NA	0.5 U
Styrene	0.5 U	97 %	98 %	5 U	NA	0.5 U
m/p-Xylene	0.5 U	110 %	115 %	5 U	NA	0.5 U
o-Xylene	0.5 U	106 %	117 %	5 U	NA	0.5 U
Bromobenzene	0.5 U	103 %	110 %	5 U	NA	0.5 U
1,2,3-Trichloropropane	0.5 U	85 %	90 %	5 U	NA	0.5 U
Isopropylbenzene	0.5 U	111 %	116 %	5 U	NA	0.5 U
n-Propylbenzene	0.5 U	92 %	101 %	5 U	NA	0.5 U
2-Chlorotoluene	0.5 U	88 %	93 %	5 U	NA	0.5 U
4-Chlorotoluene	0.5 U	103 %	110 %	5 U	NA	0.5 U
1,3,5-Trimethylbenzene	0.5 U	110 %	112 %	5 U	NA	0.5 U
tert-Butylbenzene	0.5 U	119 %	120 %	5 U	NA	0.5 U
1,2,4-Trimethylbenzene	0.5 U	110 %	113 %	5 U	NA	0.5 U
sec-Butylbenzene	0.5 U	119 %	120 %	5 U	NA	0.5 U
p-Isopropyltoluene	0.5 U	108 %	113 %	5 U	NA	0.5 U
1,3-Dichlorobenzene	0.5 U	90 %	96 %	5 U	NA	0.5 U
1,4-Dichlorobenzene	0.5 U	86 %	84 %	5 U	NA	0.5 U
1,2-Dichlorobenzene	0.5 U	102 %	101 %	5 U	NA	0.5 U
n-Butylbenzene	0.5 U	123 * %	120 %	5 U	NA	0.5 U
1,2-Dibromo-3-chloropropane	0.5 U	83 %	93 %	5 U	NA	0.5 U
1,2,4-Trichlorobenzene	0.5 U	105 %	102 %	5 U	NA	0.5 U
Hexachlorobutadiene	0.5 U	131 * %	117 %	5 U	NA	0.5 U
Naphthalene	0.5 U	96 %	93 %	5 U	NA	0.5 U
1,2,3-Trichlorobenzene	0.5 U	111 %	104 %	5 U	NA	0.5 U
cis-1,3-Dichloropropene	0.5 U	78 * %	80 %	5 U	NA	0.5 U
trans-1,3-Dichloropropene	0.5 U	73 * %	78 * %	5 U	NA	0.5 U
Acetone	2 U	2 U	2 U	E	450 B	2 U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, METHOD 524 LIST

RFW Batch Number: 9508G630 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/24/95 11:02 Page: 2a

	Cust ID:	MW-W2	MW-N2	EP-2	EP-2	VBLK	VBLK BS
Sample Information	RFW#:	004	005	006	006 DL	95GVE246-MB1	95GVE246-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1	1	5	25	1	1
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Surrogate	4-Bromofluorobenzene	95 %	87 %	98 %	95 %	95 %	97 %
Surrogate	1,2-Dichlorobenzene-d4	95 %	82 %	98 %	94 %	89 %	99 %
Dichlorodifluoromethane		0.5 U	0.5 U	2 U	NA	0.5 U	100 %
Chloromethane		0.5 U	0.5 U	2 U	NA	0.5 U	107 %
Bromomethane		0.5 U	0.5 U	2 U	NA	0.5 U	105 %
Vinyl chloride		0.5 U	0.5 U	2 U	NA	0.5 U	107 %
Chloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	106 %
Methylene Chloride		0.5 U	0.5 U	2 U	NA	0.5 U	131 * %
Trichlorofluoromethane		0.5 U	0.5 U	2 U	NA	0.5 U	110 %
1,1-Dichloroethene		0.5 U	0.5 U	2 U	NA	0.5 U	108 %
1,1-Dichloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	109 %
cis-1,2-Dichloroethene		0.5 U	0.5 U	2 U	NA	0.5 U	109 %
2,2-Dichloropropane		0.5 U	0.5 U	2 U	NA	0.5 U	103 %
trans-1,2-Dichloroethene		0.5 U	0.5 U	2 U	NA	0.5 U	108 %
Chloroform		0.5 U	0.5 U	2 U	NA	0.5 U	107 %
Bromochloromethane		0.5 U	0.5 U	2 U	NA	0.5 U	98 %
1,2-Dichloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	95 %
1,1,1-Trichloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	105 %
Carbon Tetrachloride		0.5 U	0.5 U	2 U	NA	0.5 U	103 %
1,1-Dichloropropene		0.5 U	0.5 U	2 U	NA	0.5 U	105 %
Bromodichloromethane		0.5 U	0.5 U	2 U	NA	0.5 U	102 %
Dibromomethane		0.5 U	0.5 U	2 U	NA	0.5 U	92 %
1,2-Dichloropropane		0.5 U	0.5 U	2 U	NA	0.5 U	103 %
Trichloroethene		0.5 U	0.5 U	2 U	NA	0.5 U	106 %
Dibromochloromethane		0.5 U	0.5 U	2 U	NA	0.5 U	94 %
1,2-Dibromoethane		0.5 U	0.5 U	2 U	NA	0.5 U	99 %
1,1,2-Trichloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	101 %
Benzene		0.5 U	0.5 U	2 U	NA	0.5 U	108 %
1,3-Dichloropropane		0.5 U	0.5 U	2 U	NA	0.5 U	100 %
Bromoform		0.5 U	0.5 U	2 U	NA	0.5 U	93 %
Tetrachloroethene		0.5 U	0.5 U	2 U	NA	0.5 U	109 %
1,1,2,2-Tetrachloroethane		0.5 U	0.5 U	2 U	NA	0.5 U	98 %

*= Outside of EPA CLP QC limits.

Cust ID:	MW-W2	MW-N2	EP-2	EP-2	VBLK	VBLK BS
RFW#:	004	005	006	006 DL	95GVE246-MB1	95GVE246-MB1
Toluene	0.5 U	0.5 U	2 U	NA	0.5 U	106 %
Chlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	101 %
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	2 U	NA	0.5 U	102 %
Ethylbenzene	0.5 U	0.5 U	3	NA	0.5 U	111 %
Styrene	0.5 U	0.5 U	2 U	NA	0.5 U	101 %
m/p-Xylene	0.5 U	0.5 U	2 U	NA	0.5 U	113 %
o-Xylene	0.5 U	0.5 U	2 U	NA	0.5 U	111 %
Bromobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	110 %
1,2,3-Trichloropropane	0.5 U	0.5 U	2 U	NA	0.5 U	92 %
Isopropylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	110 %
n-Propylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	96 %
2-Chlorotoluene	0.5 U	0.5 U	2 U	NA	0.5 U	94 %
4-Chlorotoluene	0.5 U	0.5 U	2 U	NA	0.5 U	105 %
1,3,5-Trimethylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	108 %
tert-Butylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	113 %
1,2,4-Trimethylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	109 %
sec-Butylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	115 %
p-Isopropyltoluene	0.5 U	0.5 U	2 U	NA	0.5 U	113 %
1,3-Dichlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	104 %
1,4-Dichlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	101 %
1,2-Dichlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	106 %
n-Butylbenzene	0.5 U	0.5 U	2 U	NA	0.5 U	120 %
1,2-Dibromo-3-chloropropane	0.5 U	0.5 U	2 U	NA	0.5 U	99 %
1,2,4-Trichlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	105 %
Hexachlorobutadiene	0.5 U	0.5 U	2 U	NA	0.5 U	125 * %
Naphthalene	0.5 U	0.5 U	2 U	NA	0.5 U	97 %
1,2,3-Trichlorobenzene	0.5 U	0.5 U	2 U	NA	0.5 U	108 %
cis-1,3-Dichloropropene	0.5 U	0.5 U	2 U	NA	0.5 U	93 %
trans-1,3-Dichloropropene	0.5 U	0.5 U	2 U	NA	0.5 U	94 %
Acetone	2 U	2 U	300 B	420 B	4 U	6 B

*= Outside of EPA CLP QC limits.

AK 8/24/95

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, METHOD 524 LIST

RFW Batch Number: 9508G630 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/24/95 11:02 Page: 3a

Sample Information	Cust ID:	VBLK		VBLK BS		VBLK		VBLK BS	
	RFW#:	95GVE245-MB1		95GVE245-MB1		95GVE247-MB1		95GVE247-MB1	
	Matrix:	WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1	
	Units:	ug/L		ug/L		ug/L		ug/L	
4-Bromofluorobenzene		95	%	103	%	91	%	87	%
Surrogate 1,2-Dichlorobenzene-d4		93	%	115	%	87	%	81	%
Dichlorodifluoromethane		0.5	U	100	%	0.5	U	100	%
Chloromethane		0.5	U	59	%	0.5	U	73	%
Bromomethane		0.5	U	83	%	0.5	U	74	%
Vinyl chloride		0.5	U	87	%	0.5	U	94	%
Chloroethane		0.5	U	75	%	0.5	U	79	%
Methylene Chloride		0.5	U	103	%	0.5	U	90	%
Trichlorofluoromethane		0.5	U	85	%	0.5	U	87	%
1,1-Dichloroethene		0.5	U	93	%	0.5	U	94	%
1,1-Dichloroethane		0.5	U	94	%	0.5	U	90	%
cis-1,2-Dichloroethene		0.5	U	93	%	0.5	U	94	%
2,2-Dichloropropane		0.5	U	73	* %	0.5	U	103	%
trans-1,2-Dichloroethene		0.5	U	100	%	0.5	U	93	%
Chloroform		0.5	U	102	%	0.5	U	94	%
Bromochloromethane		0.5	U	96	%	0.5	U	86	%
1,2-Dichloroethane		0.5	U	106	%	0.5	U	86	%
1,1,1-Trichloroethane		0.5	U	93	%	0.5	U	94	%
Carbon Tetrachloride		0.5	U	95	%	0.5	U	101	%
1,1-Dichloropropene		0.5	U	95	%	0.5	U	97	%
Bromodichloromethane		0.5	U	100	%	0.5	U	90	%
Dibromomethane		0.5	U	104	%	0.5	U	83	%
1,2-Dichloropropane		0.5	U	97	%	0.5	U	90	%
Trichloroethene		0.5	U	92	%	0.5	U	96	%
Dibromochloromethane		0.5	U	99	%	0.5	U	88	%
1,2-Dibromoethane		0.5	U	97	%	0.5	U	87	%
1,1,2-Trichloroethane		0.5	U	104	%	0.5	U	89	%
Benzene		0.5	U	96	%	0.5	U	91	%
1,3-Dichloropropane		0.5	U	99	%	0.5	U	90	%
Bromoform		0.5	U	103	%	0.5	U	88	%
Tetrachloroethene		0.5	U	91	%	0.5	U	99	%
1,1,2,2-Tetrachloroethane		0.5	U	112	%	0.5	U	89	%

*= Outside of EPA CLP QC limits.

Cust ID:	VBLK	VBLK BS	VBLK	VBLK BS
RFW#:	95GVE245-MB1	95GVE245-MB1	95GVE247-MB1	95GVE247-MB1
Toluene	0.5 U	89 %	0.5 U	95 %
Chlorobenzene	0.5 U	94 %	0.5 U	93 %
1,1,1,2-Tetrachloroethane	0.5 U	100 %	0.5 U	95 %
Ethylbenzene	0.5 U	93 %	0.5 U	91 %
Styrene	0.5 U	94 %	0.5 U	92 %
m/p-Xylene	0.5 U	96 %	0.5 U	96 %
o-Xylene	0.5 U	99 %	0.5 U	95 %
Bromobenzene	0.5 U	102 %	0.5 U	95 %
1,2,3-Trichloropropane	0.5 U	111 %	0.5 U	84 %
Isopropylbenzene	0.5 U	96 %	0.5 U	98 %
n-Propylbenzene	0.5 U	94 %	0.5 U	98 %
2-Chlorotoluene	0.5 U	98 %	0.5 U	101 %
4-Chlorotoluene	0.5 U	103 %	0.5 U	90 %
1,3,5-Trimethylbenzene	0.5 U	101 %	0.5 U	96 %
tert-Butylbenzene	0.5 U	96 %	0.5 U	96 %
1,2,4-Trimethylbenzene	0.5 U	96 %	0.5 U	95 %
sec-Butylbenzene	0.5 U	98 %	0.5 U	100 %
p-Isopropyltoluene	0.5 U	91 %	0.5 U	94 %
1,3-Dichlorobenzene	0.5 U	100 %	0.5 U	99 %
1,4-Dichlorobenzene	0.5 U	105 %	0.5 U	115 %
1,2-Dichlorobenzene	0.5 U	107 %	0.5 U	93 %
n-Butylbenzene	0.5 U	93 %	0.5 U	98 %
1,2-Dibromo-3-chloropropane	0.5 U	116 %	0.5 U	82 %
1,2,4-Trichlorobenzene	0.5 U	108 %	0.5 U	94 %
Hexachlorobutadiene	0.5 U	89 %	0.5 U	102 %
Naphthalene	0.5 U	109 %	0.5 U	91 %
1,2,3-Trichlorobenzene	0.5 U	115 %	0.5 U	92 %
cis-1,3-Dichloropropene	0.5 U	90 %	0.5 U	83 %
trans-1,3-Dichloropropene	0.5 U	91 %	0.5 U	82 %
Acetone	6	2 U	6	5 B

*= Outside of EPA CLP QC limits.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

RFW Lot No.: 9508G630

	CLIENT SAMPLE NO.	S1 (BFB)#	S2 ( )#	S3 ( )#	OTHER	TOT OUT
01	MW-ND2	94	88			0
02	MW-ND2MS	105	108			0
03	MW-ND2MSD	100	107			0
04	MW-E2	106	107			0
05	MW-E2DL	96	89			0
06	MW-S2	97	96			0
07	MW-W2	95	95			0
08	MW-N2	87	82			0
09	EP-2	98	98			0
10	EP-2DL	95	94			0
11	VBLKGVE246-MB1	95	89			0
12	VBLKGVE246-MB1 BS	97	99			0
13	VBLKGVE245-MB1	95	93			0
14	VBLKGVE245-MB1 BS	103	115			0
15	VBLKGVE247-MB1	91	87			0
16	VBLKGVE247-MB1 BS	87	81			0

	QC LIMITS
S1 (BFB) = 4-Bromofluorobenzene	(80-120)
S2 ( ) = 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 0000-00-00

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G630-001

MATRIX Spike - Sample No.: MW-ND2

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	5.00	0	5.26	105	45 -202
Chloromethane	5.00	0	3.15	63	45 -177
Bromomethane	5.00	0	3.73	75	68 -143
Vinyl chloride	5.00	0	4.52	90	66 -145
Chloroethane	5.00	0	3.73	75	62 -138
Methylene Chloride	5.00	0	4.70	94	80 -120
Trichlorofluoromethane	5.00	0	4.45	89	72 -140
1,1-Dichloroethene	5.00	0	4.50	90	80 -120
1,1-Dichloroethane	5.00	0	4.52	90	80 -120
cis-1,2-Dichloroethene	5.00	0	4.77	95	80 -120
2,2-Dichloropropane	5.00	0	4.63	93	80 -120
trans-1,2-Dichloroethene	5.00	0	4.69	94	80 -120
Chloroform	5.00	0	4.71	94	80 -120
Bromochloromethane	5.00	0	4.11	82	80 -120
1,2-Dichloroethane	5.00	0	3.94	79 *	80 -120
1,1,1-Trichloroethane	5.00	0	4.80	96	80 -120
Carbon Tetrachloride	5.00	0	4.64	93	80 -120
1,1-Dichloropropene	5.00	0	4.47	89	80 -120
Bromodichloromethane	5.00	0	4.12	82	80 -120
Dibromomethane	5.00	0	3.39	68 *	80 -120
1,2-Dichloropropane	5.00	0	4.27	85	80 -120
Trichloroethene	5.00	0	4.34	87	80 -120
Dibromochloromethane	5.00	0	3.81	76 *	80 -120
1,2-Dibromoethane	5.00	0	3.77	75 *	80 -120
1,1,2-Trichloroethane	5.00	0	4.16	83	80 -120
Benzene	5.00	0	4.63	93	80 -120
1,3-Dichloropropane	5.00	0	4.11	82	80 -120
Bromoform	5.00	0	4.00	80	80 -120
Tetrachloroethene	5.00	0	4.81	96	80 -120
1,1,2,2-Tetrachloroethane	5.00	0	4.40	88	80 -120
Toluene	5.00	0	4.65	93	80 -120
Chlorobenzene	5.00	0	4.40	88	80 -120
1,1,1,2-Tetrachloroethane	5.00	0	4.64	93	80 -120
Ethylbenzene	5.00	0	5.13	103	80 -120
Styrene	5.00	0	4.83	97	80 -120
m/p-Xylene	10.0	0	11.0	110	80 -120
o-Xylene	5.00	0	5.31	106	80 -120
Bromobenzene	5.00	0	5.16	103	80 -120
1,2,3-Trichloropropane	5.00	0	4.25	85	80 -120
Isopropylbenzene	5.00	0	5.57	111	80 -120
n-Propylbenzene	5.00	0	4.59	92	80 -120
2-Chlorotoluene	5.00	0	4.41	88	80 -120
4-Chlorotoluene	5.00	0	5.17	103	80 -120
1,3,5-Trimethylbenzene	5.00	0	5.49	110	80 -120
tert-Butylbenzene	5.00	0	5.93	119	80 -120
1,2,4-Trimethylbenzene	5.00	0	5.50	110	80 -120

p-Isopropyltoluene	5.00	0	5.42	108	80 -120
1,3-Dichlorobenzene	5.00	0	4.51	90	80 -120
1,4-Dichlorobenzene	5.00	0	4.28	86	80 -120
1,2-Dichlorobenzene	5.00	0	5.10	102	80 -120
n-Butylbenzene	5.00	0	6.17	123 *	80 -120
1,2-Dibromo-3-chloropropane	5.00	0	4.14	83	80 -120
1,2,4-Trichlorobenzene	5.00	0	5.26	105	80 -120
Hexachlorobutadiene	5.00	0	6.53	131 *	80 -120
Naphthalene	5.00	0	4.81	96	52 -147
1,2,3-Trichlorobenzene	5.00	0	5.55	111	33 -179
cis-1,3-Dichloropropene	5.00	0	3.88	78 *	80 -120
trans-1,3-Dichloropropene	5.00	0	3.64	73 *	80 -120

continued on next page...

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Dichlorodifluoromethane	5.00	5.40	108	2	20	45 -202
Chloromethane	5.00	3.57	71	11	20	45 -177
Bromomethane	5.00	3.97	79	5	20	68 -143
Vinyl chloride	5.00	4.88	98	8	20	66 -145
Chloroethane	5.00	4.10	82	8	20	62 -138
Methylene Chloride	5.00	5.29	106	12	20	80 -120
Trichlorofluoromethane	5.00	4.76	95	6	20	72 -140
1,1-Dichloroethene	5.00	4.99	100	10	20	80 -120
1,1-Dichloroethane	5.00	4.82	96	6	20	80 -120
cis-1,2-Dichloroethene	5.00	4.81	96	1	20	80 -120
2,2-Dichloropropane	5.00	4.96	99	6	20	80 -120
trans-1,2-Dichloroethene	5.00	4.85	97	3	20	80 -120
Chloroform	5.00	5.01	100	6	20	80 -120
Bromochloromethane	5.00	4.32	86	4	20	80 -120
1,2-Dichloroethane	5.00	4.23	85	7	20	80 -120
1,1,1-Trichloroethane	5.00	5.04	101	5	20	80 -120
Carbon Tetrachloride	5.00	4.84	97	4	20	80 -120
1,1-Dichloropropene	5.00	5.15	103	14	20	80 -120
Bromodichloromethane	5.00	4.49	90	9	20	80 -120
Dibromomethane	5.00	3.81	76 *	11	20	80 -120
1,2-Dichloropropane	5.00	4.65	93	8	20	80 -120
Trichloroethene	5.00	4.98	100	13	20	80 -120
Dibromochloromethane	5.00	4.22	84	10	20	80 -120
1,2-Dibromoethane	5.00	4.12	82	8	20	80 -120
1,1,2-Trichloroethane	5.00	4.40	88	5	20	80 -120
Benzene	5.00	4.88	98	5	20	80 -120
1,3-Dichloropropane	5.00	4.33	87	5	20	80 -120
Bromoform	5.00	4.49	90	11	20	80 -120
Tetrachloroethene	5.00	4.90	98	2	20	80 -120
1,1,2,2-Tetrachloroethane	5.00	4.58	92	4	20	80 -120
Toluene	5.00	4.92	98	5	20	80 -120
Chlorobenzene	5.00	4.60	92	4	20	80 -120
1,1,1,2-Tetrachloroethane	5.00	4.99	100	7	20	80 -120
Ethylbenzene	5.00	5.52	110	6	20	80 -120
Styrene	5.00	4.90	98	1	20	80 -120
m/p-Xylene	10.0	11.5	115	4	20	80 -120
o-Xylene	5.00	5.83	117	9	20	80 -120
Bromobenzene	5.00	5.49	110	6	20	80 -120
1,2,3-Trichloropropane	5.00	4.49	90	5	20	80 -120
Isopropylbenzene	5.00	5.78	116	4	20	80 -120
n-Propylbenzene	5.00	5.05	101	9	20	80 -120
2-Chlorotoluene	5.00	4.66	93	5	20	80 -120
4-Chlorotoluene	5.00	5.52	110	6	20	80 -120
1,3,5-Trimethylbenzene	5.00	5.60	112	1	20	80 -120
tert-Butylbenzene	5.00	6.01	120	0	20	80 -120
1,2,4-Trimethylbenzene	5.00	5.65	113	2	20	80 -120
sec-Butylbenzene	5.00	6.00	120	0	20	80 -120
p-Isopropyltoluene	5.00	5.67	113	4	20	80 -120
1,3-Dichlorobenzene	5.00	4.80	96	6	20	80 -120
1,4-Dichlorobenzene	5.00	4.19	84	2	20	80 -120
1,2-Dichlorobenzene	5.00	5.03	101	0	20	80 -120
n-Butylbenzene	5.00	5.98	120	2	20	80 -120
1,2-Dibromo-3-chloropropane	5.00	4.66	93	11	20	80 -120
1,2,4-Trichlorobenzene	5.00	5.10	102	2	20	80 -120
Hexachlorobutadiene	5.00	5.83	117	11	20	80 -120
Naphthalene	5.00	4.65	93	3	20	52 -147

cis-1,3-Dichloropropene	5.00	4.01	80	2	20	80 -120
trans-1,3-Dichloropropene	5.00	3.89	78 *	6	20	80 -120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 59 outside limits
Spike Recovery: 10 out of ** outside limits

COMMENTS: _____

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3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: ONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G630

MATRIX Spike - Sample No.: VBLKGVE245-MB1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	5.00	0	4.98	100	45 -202
Chloromethane	5.00	0	2.94	59	45 -177
Bromomethane	5.00	0	4.17	83	68 -143
Vinyl chloride	5.00	0	4.37	87	66 -145
Chloroethane	5.00	0	3.77	75	62 -138
Methylene Chloride	5.00	0	5.13	103	80 -120
Trichlorofluoromethane	5.00	0	4.24	85	72 -140
1,1-Dichloroethene	5.00	0	4.67	93	80 -120
1,1-Dichloroethane	5.00	0	4.72	94	80 -120
cis-1,2-Dichloroethene	5.00	0	4.67	93	80 -120
2,2-Dichloropropane	5.00	0	3.64	73 *	80 -120
trans-1,2-Dichloroethene	5.00	0	5.01	100	80 -120
Chloroform	5.00	0	5.09	102	80 -120
Bromochloromethane	5.00	0	4.78	96	80 -120
1,2-Dichloroethane	5.00	0	5.32	106	80 -120
1,1,1-Trichloroethane	5.00	0	4.63	93	80 -120
Carbon Tetrachloride	5.00	0	4.76	95	80 -120
1,1-Dichloropropene	5.00	0	4.76	95	80 -120
Bromodichloromethane	5.00	0	4.99	100	80 -120
Dibromomethane	5.00	0	5.20	104	80 -120
1,2-Dichloropropane	5.00	0	4.83	97	80 -120
Trichloroethene	5.00	0	4.58	92	80 -120
Dibromochloromethane	5.00	0	4.94	99	80 -120
1,2-Dibromoethane	5.00	0	4.85	97	80 -120
1,1,2-Trichloroethane	5.00	0	5.20	104	80 -120
Benzene	5.00	0	4.82	96	80 -120
1,3-Dichloropropane	5.00	0	4.96	99	80 -120
Bromoform	5.00	0	5.13	103	80 -120
Tetrachloroethene	5.00	0	4.54	91	80 -120
1,1,2,2-Tetrachloroethane	5.00	0	5.62	112	80 -120
Toluene	5.00	0	4.43	89	80 -120
Chlorobenzene	5.00	0	4.72	94	80 -120
1,1,1,2-Tetrachloroethane	5.00	0	4.98	100	80 -120
Ethylbenzene	5.00	0	4.63	93	80 -120
Styrene	5.00	0	4.71	94	80 -120
m/p-Xylene	10.0	0	9.60	96	80 -120
o-Xylene	5.00	0	4.97	99	80 -120
Bromobenzene	5.00	0	5.10	102	80 -120
1,2,3-Trichloropropane	5.00	0	5.55	111	80 -120
Isopropylbenzene	5.00	0	4.79	96	80 -120
n-Propylbenzene	5.00	0	4.72	94	80 -120
2-Chlorotoluene	5.00	0	4.90	98	80 -120
4-Chlorotoluene	5.00	0	5.16	103	80 -120
1,3,5-Trimethylbenzene	5.00	0	5.05	101	80 -120
tert-Butylbenzene	5.00	0	4.81	96	80 -120
1,2,4-Trimethylbenzene	5.00	0	4.80	96	80 -120
sec-Butylbenzene	5.00	0	4.89	98	80 -120

1,3-Dichlorobenzene	5.00	0	5.02	100	80 -120
1,4-Dichlorobenzene	5.00	0	5.23	105	80 -120
1,2-Dichlorobenzene	5.00	0	5.35	107	80 -120
n-Butylbenzene	5.00	0	4.65	93	80 -120
1,2-Dibromo-3-chloropropane	5.00	0	5.82	116	80 -120
1,2,4-Trichlorobenzene	5.00	0	5.42	108	80 -120
Hexachlorobutadiene	5.00	0	4.44	89	80 -120
Naphthalene	5.00	0	5.44	109	52 -147
1,2,3-Trichlorobenzene	5.00	0	5.76	115	33 -179
cis-1,3-Dichloropropene	5.00	0	4.52	90	80 -120
trans-1,3-Dichloropropene	5.00	0	4.56	91	80 -120

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 59 outside limits

COMMENTS: _____

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WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: ONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G630

MATRIX Spike - Sample No.: VBLKGVE246-MB1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	5.00	0	4.99	100	45 -202
Chloromethane	5.00	0	5.36	107	45 -177
Bromomethane	5.00	0	5.26	105	68 -143
Vinyl chloride	5.00	0	5.37	107	66 -145
Chloroethane	5.00	0	5.29	106	62 -138
Methylene Chloride	5.00	0	6.53	131 *	80 -120
Trichlorofluoromethane	5.00	0	5.48	110	72 -140
1,1-Dichloroethene	5.00	0	5.38	108	80 -120
1,1-Dichloroethane	5.00	0	5.45	109	80 -120
cis-1,2-Dichloroethene	5.00	0	5.45	109	80 -120
2,2-Dichloropropane	5.00	0	5.17	103	80 -120
trans-1,2-Dichloroethene	5.00	0	5.41	108	80 -120
Chloroform	5.00	0	5.34	107	80 -120
Bromochloromethane	5.00	0	4.89	98	80 -120
1,2-Dichloroethane	5.00	0	4.76	95	80 -120
1,1,1-Trichloroethane	5.00	0	5.23	105	80 -120
Carbon Tetrachloride	5.00	0	5.17	103	80 -120
1,1-Dichloropropene	5.00	0	5.27	105	80 -120
Bromodichloromethane	5.00	0	5.10	102	80 -120
Dibromomethane	5.00	0	4.58	92	80 -120
1,2-Dichloropropane	5.00	0	5.15	103	80 -120
Trichloroethene	5.00	0	5.29	106	80 -120
Dibromochloromethane	5.00	0	4.68	94	80 -120
1,2-Dibromoethane	5.00	0	4.93	99	80 -120
1,1,2-Trichloroethane	5.00	0	5.05	101	80 -120
Benzene	5.00	0	5.40	108	80 -120
1,3-Dichloropropane	5.00	0	5.00	100	80 -120
Bromoform	5.00	0	4.67	93	80 -120
Tetrachloroethene	5.00	0	5.45	109	80 -120
1,1,2,2-Tetrachloroethane	5.00	0	4.90	98	80 -120
Toluene	5.00	0	5.29	106	80 -120
Chlorobenzene	5.00	0	5.07	101	80 -120
1,1,1,2-Tetrachloroethane	5.00	0	5.12	102	80 -120
Ethylbenzene	5.00	0	5.54	111	80 -120
Styrene	5.00	0	5.03	101	80 -120
m/p-Xylene	10.0	0	11.3	113	80 -120
o-Xylene	5.00	0	5.57	111	80 -120
Bromobenzene	5.00	0	5.48	110	80 -120
1,2,3-Trichloropropane	5.00	0	4.59	92	80 -120
Isopropylbenzene	5.00	0	5.50	110	80 -120
n-Propylbenzene	5.00	0	4.78	96	80 -120
2-Chlorotoluene	5.00	0	4.71	94	80 -120
4-Chlorotoluene	5.00	0	5.23	105	80 -120
1,3,5-Trimethylbenzene	5.00	0	5.42	108	80 -120
tert-Butylbenzene	5.00	0	5.67	113	80 -120
1,2,4-Trimethylbenzene	5.00	0	5.43	109	80 -120
sec-Butylbenzene	5.00	0	5.73	115	80 -120

1,3-Dichlorobenzene	5.00	0	5.22	104	80 -120
1,4-Dichlorobenzene	5.00	0	5.04	101	80 -120
1,2-Dichlorobenzene	5.00	0	5.29	106	80 -120
n-Butylbenzene	5.00	0	6.00	120	80 -120
1,2-Dibromo-3-chloropropane	5.00	0	4.93	99	80 -120
1,2,4-Trichlorobenzene	5.00	0	5.26	105	80 -120
Hexachlorobutadiene	5.00	0	6.26	125 *	80 -120
Naphthalene	5.00	0	4.86	97	52 -147
1,2,3-Trichlorobenzene	5.00	0	5.40	108	33 -179
cis-1,3-Dichloropropene	5.00	0	4.67	93	80 -120
trans-1,3-Dichloropropene	5.00	0	4.72	94	80 -120

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 59 outside limits

COMMENTS: _____

_____

3A

WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: ONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G630

MATRIX Spike - Sample No.: VBLKGVE247-MB1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
Dichlorodifluoromethane	5.00	0	4.99	100	45 -202
Chloromethane	5.00	0	3.67	73	45 -177
Bromomethane	5.00	0	3.72	74	68 -143
Vinyl chloride	5.00	0	4.72	94	66 -145
Chloroethane	5.00	0	3.94	79	62 -138
Methylene Chloride	5.00	0	4.51	90	80 -120
Trichlorofluoromethane	5.00	0	4.34	87	72 -140
1,1-Dichloroethene	5.00	0	4.70	94	80 -120
1,1-Dichloroethane	5.00	0	4.50	90	80 -120
cis-1,2-Dichloroethene	5.00	0	4.70	94	80 -120
2,2-Dichloropropane	5.00	0	5.16	103	80 -120
trans-1,2-Dichloroethene	5.00	0	4.63	93	80 -120
Chloroform	5.00	0	4.69	94	80 -120
Bromochloromethane	5.00	0	4.32	86	80 -120
1,2-Dichloroethane	5.00	0	4.30	86	80 -120
1,1,1-Trichloroethane	5.00	0	4.68	94	80 -120
Carbon Tetrachloride	5.00	0	5.05	101	80 -120
1,1-Dichloropropene	5.00	0	4.87	97	80 -120
Bromodichloromethane	5.00	0	4.52	90	80 -120
Dibromomethane	5.00	0	4.16	83	80 -120
1,2-Dichloropropane	5.00	0	4.48	90	80 -120
Trichloroethene	5.00	0	4.78	96	80 -120
Dibromochloromethane	5.00	0	4.41	88	80 -120
1,2-Dibromoethane	5.00	0	4.34	87	80 -120
1,1,2-Trichloroethane	5.00	0	4.43	89	80 -120
Benzene	5.00	0	4.54	91	80 -120
1,3-Dichloropropane	5.00	0	4.49	90	80 -120
Bromoform	5.00	0	4.42	88	80 -120
Tetrachloroethene	5.00	0	4.94	99	80 -120
1,1,2,2-Tetrachloroethane	5.00	0	4.46	89	80 -120
Toluene	5.00	0	4.77	95	80 -120
Chlorobenzene	5.00	0	4.66	93	80 -120
1,1,1,2-Tetrachloroethane	5.00	0	4.73	95	80 -120
Ethylbenzene	5.00	0	4.55	91	80 -120
Styrene	5.00	0	4.60	92	80 -120
m/p-Xylene	10.0	0	9.59	96	80 -120
o-Xylene	5.00	0	4.75	95	80 -120
Bromobenzene	5.00	0	4.77	95	80 -120
1,2,3-Trichloropropane	5.00	0	4.18	84	80 -120
Isopropylbenzene	5.00	0	4.92	98	80 -120
n-Propylbenzene	5.00	0	4.90	98	80 -120
2-Chlorotoluene	5.00	0	5.06	101	80 -120
4-Chlorotoluene	5.00	0	4.50	90	80 -120
1,3,5-Trimethylbenzene	5.00	0	4.80	96	80 -120
tert-Butylbenzene	5.00	0	4.79	96	80 -120
1,2,4-Trimethylbenzene	5.00	0	4.77	95	80 -120
sec-Butylbenzene	5.00	0	5.02	100	80 -120

1,3-Dichlorobenzene	5.00	0	4.96	99	80 -120
1,4-Dichlorobenzene	5.00	0	5.75	115	80 -120
1,2-Dichlorobenzene	5.00	0	4.67	93	80 -120
n-Butylbenzene	5.00	0	4.89	98	80 -120
1,2-Dibromo-3-chloropropane	5.00	0	4.08	82	80 -120
1,2,4-Trichlorobenzene	5.00	0	4.70	94	80 -120
Hexachlorobutadiene	5.00	0	5.09	102	80 -120
Naphthalene	5.00	0	4.54	91	52 -147
1,2,3-Trichlorobenzene	5.00	0	4.58	92	33 -179
cis-1,3-Dichloropropene	5.00	0	4.17	83	80 -120
trans-1,3-Dichloropropene	5.00	0	4.11	82	80 -120

Column to be used to flag recovery value with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 59 outside limits

COMMENTS: _____

_____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: ECD821 Lab Sample ID: 95GVE245-MB1

Date Analyzed: 08/21/95 Time Analyzed: 1357

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: gc15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVE245-MB1 BS	95GVE245-MB1S	ECB821	1456
02	MW-E2	9508G630-002	EXDI01	1638

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: ECF821 Lab Sample ID: 95GVE246-MB1

Date Analyzed: 08/21/95 Time Analyzed: 2310

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: gcl5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVE246-MB1 BS	95GVE246-MB1S	ECG821	0013
02	EP-2	9508G630-006	EXDI05	0431
03	MW-ND2MS	9508G630-001S	EXDI07	0513
04	MW-ND2MSD	9508G630-001T	EXDI08	0556
05	MW-ND2	9508G630-001	EXDI09	0057
06	MW-E2DL	9508G630-002	EXDI10	0138
07	MW-S2	9508G630-003	EXDI11	0222
08	MW-W2	9508G630-004	EXDI12	0306
09	MW-N2	9508G630-005	EXDI13	0349

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: ECA822 Lab Sample ID: 95GVE247-MB1

Date Analyzed: 08/22/95 Time Analyzed: 1914

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: gcl5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVE247-MB1 BS	95GVE247-MB1S	ECD822	2307
02	EP-2DL	9508G630-006	EXDI15	0354

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: EAA819 BFB Injection Date: 08/19/95

Instrument ID: gc15 BFB Injection Time: 1011

GC Column: ID: ____(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.5
75	30.0 - 66.0% of mass 95	45.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	5.0(7.3)1
176	93.0 - 101.0% of mass 174	65.9(96.3)1
177	5.0 - 9.0% of mass 176	4.8(7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD10	STD10	EBD819	08/19/95	1348
02	STD20	STD20	EBE819	08/19/95	1433
03	1STD	1STD	EBF819	08/19/95	1536
04					
05					
06					
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15					
16					
17					
18					
19					
20					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: EAA821 BFB Injection Date: 08/21/95

Instrument ID: gc15 BFB Injection Time: 0828

GC Column: ID: ____(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	45.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	78.9
175	4.0 - 9.0% of mass 174	5.7(7.2)1
176	93.0 - 101.0% of mass 174	75.4(95.6)1
177	5.0 - 9.0% of mass 176	6.0(7.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD10	STD10	EBA821	08/21/95	0933
02	ACETONE	ACETONE	EBB821	08/21/95	1157
03	VBLKGVE245-MB1	95GVE245-MB1	ECD821.	08/21/95	1357
04	VBLKGVE245-MB1 BS	95GVE245-MB1S	ECB821.	08/21/95	1456
05	MW-E2	9508G630-002	EXDI01.	08/21/95	1638
06					
07					
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20					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: EAB821 BFB Injection Date: 08/21/95

Instrument ID: gc15 BFB Injection Time: 2114

GC Column: ID: ____(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.0
75	30.0 - 66.0% of mass 95	48.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.3
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	77.6
175	4.0 - 9.0% of mass 174	5.7(7.3)1
176	93.0 - 101.0% of mass 174	76.4(98.5)1
177	5.0 - 9.0% of mass 176	6.3(8.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD10+A	STD10+A	EBC821	08/21/95	2155
02	VBLKGVE246-MB1	95GVE246-MB1	ECF821.	08/21/95	2310
03	VBLKGVE246-MB1 BS	95GVE246-MB1S	ECG821.	08/22/95	0013
04	MW-ND2	9508G630-001	EXDI09.	08/22/95	0057
05	MW-E2DL	9508G630-002	EXDI10.	08/22/95	0138
06	MW-S2	9508G630-003	EXDI11.	08/22/95	0222
07	MW-W2	9508G630-004	EXDI12.	08/22/95	0306
08	MW-N2	9508G630-005	EXDI13.	08/22/95	0349
09	EP-2	9508G630-006	EXDI05.	08/22/95	0431
10	MW-ND2MS	9508G630-001S	EXDI07.	08/22/95	0513
11	MW-ND2MSD	9508G630-001T	EXDI08.	08/22/95	0556
12					
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15					
16					
17					
18					
19					
20					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site

Lab File ID: EAA822 BFB Injection Date: 08/22/95

Instrument ID: gc15 BFB Injection Time: ~~5 6.~~ 1657

GC Column: ID: ____(mm) Heated Purge: (Y/N) N

(40) 8/24/95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	50.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	75.7
175	4.0 - 9.0% of mass 174	5.6(7.4)1
176	93.0 - 101.0% of mass 174	73.0(96.5)1
177	5.0 - 9.0% of mass 176	5.9(8.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD10+A	STD10+A	EBA822	08/22/95	1806
02	VBLKGVE247-MB1	95GVE247-MB1	ECA822.	08/22/95	1914
03	VBLKGVE247-MB1 BS	95GVE247-MB1S	ECD822.	08/22/95	2307
04	EP-2DL	9508G630-006	EXDI15.	08/23/95	0354
05					
06					
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8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 0000-00-00

Case No.: TAT-Pier Drum Site RFW Lot: 9508G630

Lab File ID (Standard): EBA821 Date Analyzed: 08/21/95

Instrument ID: gcl5 Time Analyzed: 0933

GC Column: CAPILLARY ID: 0.53(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	317716	16.19	220055	21.98		
	UPPER LIMIT	635432	16.69	440110	22.48		
	LOWER LIMIT	158858	15.69	110028	21.48		
	CLIENT SAMPLE NO.						
01	MW-E2	228757	16.15	148941	21.96		
02	VBLKGVE245-MB1	267308	16.15	185135	21.98		
03	VBLKGVE245-MB1 BS	312373	16.16	214561	21.98		

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 0000-00-00

Case No.: TAT-Pier Drum Site RFW Lot: 9508G630

Lab File ID (Standard): EBC821 Date Analyzed: 08/21/95

Instrument ID: gc15 Time Analyzed: 2155

GC Column: CAPILLARY ID: 0.53(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	222996	16.13	163055	21.94		
	UPPER LIMIT	445992	16.63	326110	22.44		
	LOWER LIMIT	111498	15.63	81528	21.44		
	CLIENT SAMPLE NO.						
01	MW-ND2	244964	16.14	160653	21.94		
02	MW-ND2MS	277733	16.12	176160	21.92		
03	MW-ND2MSD	285007	16.13	180039	21.91		
04	MW-E2DL	311564	16.13	206393	21.94		
05	MW-S2	221801	16.13	143328	21.94		
06	MW-W2	227262	16.13	151625	21.93		
07	MW-N2	233488	16.13	169269	21.94		
08	EP-2	222520	16.13	159382	21.94		
09	VBLKGVE246-MB1	265598	16.13	175417	21.94		
10	VBLKGVE246-MB1 BS	248568	16.15	175385	21.94		

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 0000-00-00

Case No.: TAT-Pier Drum Site RFW Lot: 9508G630

Lab File ID (Standard): EBA822 Date Analyzed: 08/22/95

Instrument ID: gc15 Time Analyzed: 1806

GC Column: CAPILLARY ID: 0.53(mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	190153	16.15	129162	21.96		
	UPPER LIMIT	380306	16.65	258324	22.46		
	LOWER LIMIT	95077	15.65	64581	21.46		
	CLIENT SAMPLE NO.						
01	EP-2DL	262822	16.14	139124	21.95		
02	VBLKGVE247-MB1	226645	16.15	169886	21.97		
03	VBLKGVE247-MB1 BS	209105	16.15	142604	21.96		

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI09

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI09

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	2	U

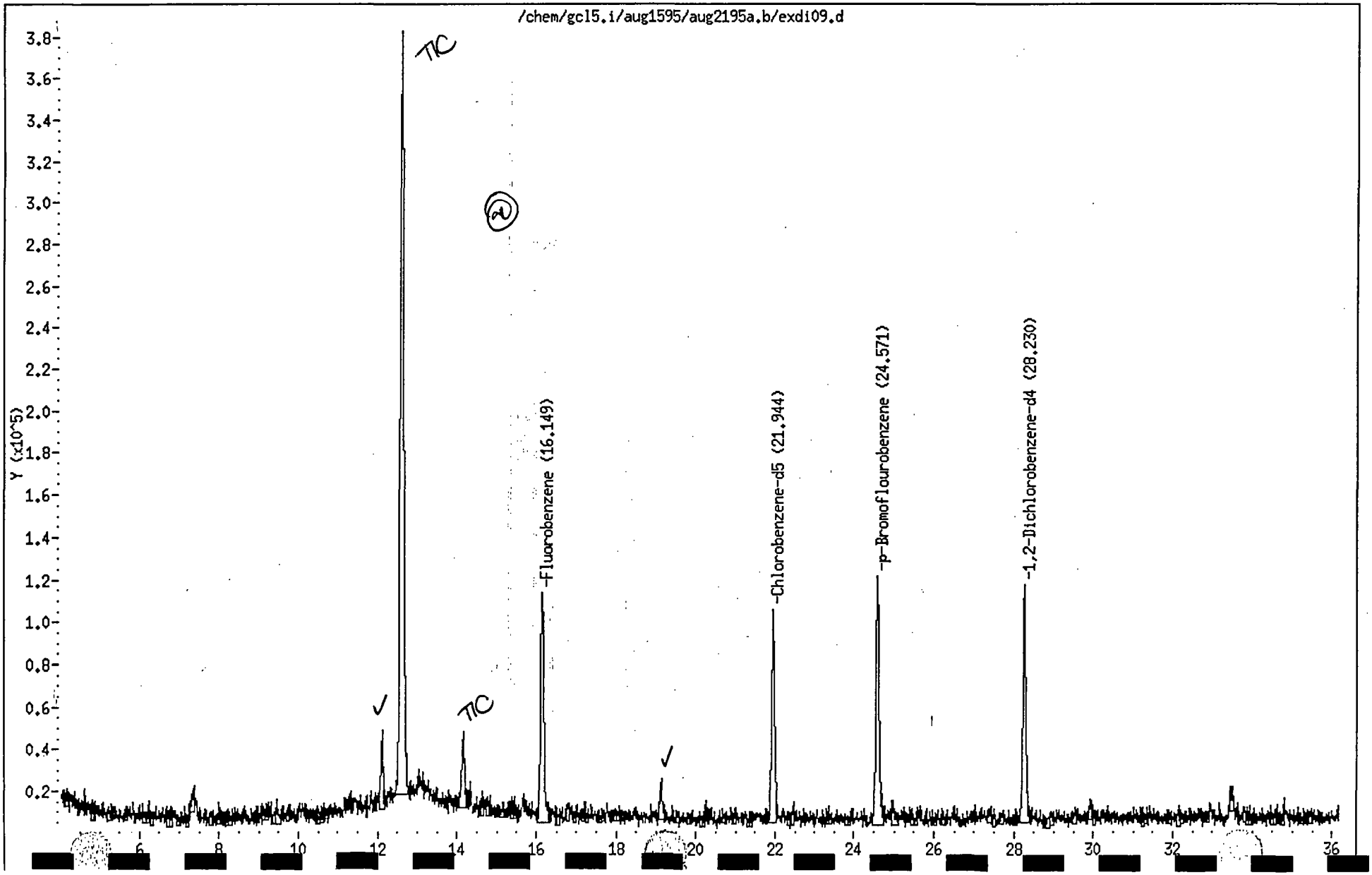
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi09.d
Date : 22-AUG-1995 00:57
Client ID:
Sample Info: 9508G630-001 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi09.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 00:57
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-001 EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 21-Aug-1995 23:48 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

EW 8/03/95

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
Methylene chloride	84.00	12.087	12.098	(0.749)	29601	0.416	0.416	(M)
* 20 Fluorobenzene	95.95	16.141	16.136	(1.000)	244964 ✓	1.00		(M)
26 Toluene	92.00	19.115	19.134	(1.184)	16783	0.117	0.117	(M)
33 Chlorobenzene-d5	117.00	21.944	21.946	(1.000)	160653 ✓	1.00		(M)
* 42 p-Bromoflourobenzene	94.95	24.563	24.558	(1.119)	144508	~~9.40~~	9.40	(M) ✓ 0.940
56 1,2-Dichlorobenzene-d4	152.00	28.230	28.217	(1.286)	85470	~~8.78~~	8.78	(M) ✓ 0.878

QC Flag Legend

- Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-E2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-002

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI01

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/21/95

Column: (pack/cap) PACK

Dilution Factor: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene Chloride	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
594-20-7	2,2-Dichloropropane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
142-28-9	1,3-Dichloropropane	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-E2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 9508G630-002

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: EXDI01

Level: (low/med) LOW Date Received: 08/18/95

% Moisture: not dec. _____ Date Analyzed: 08/21/95

Column: (pack/cap) PACK Dilution Factor: 10

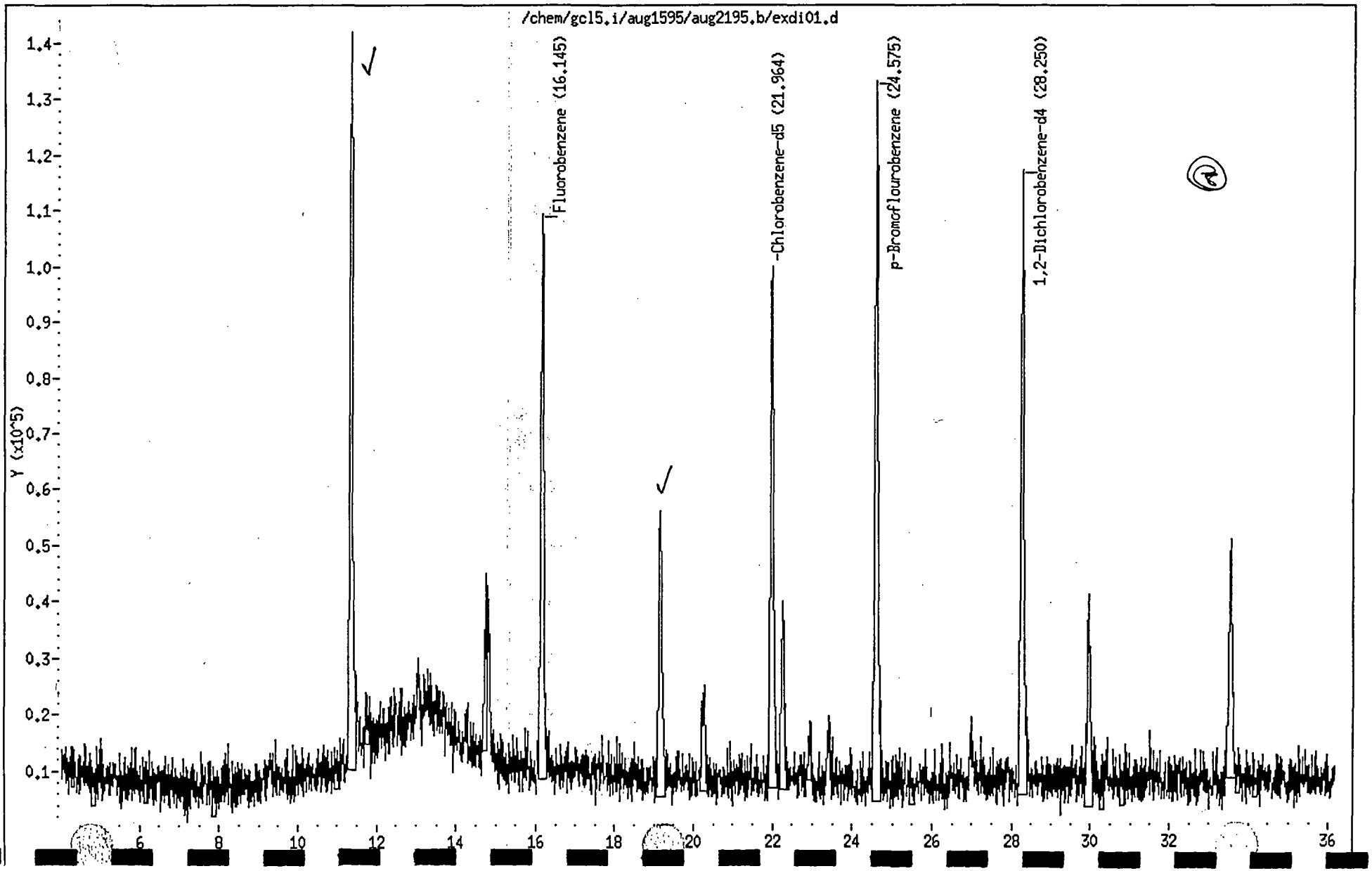
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	5	U
000-00-0	m/p-Xylene	5	U
95-47-6	o-Xylene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
98-82-8	Isopropylbenzene	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	p-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
67-64-1	Acetone		E

Data File: /chem/gcl5.i/aug1595/aug2195.b/exdi01.d
Date : 21-AUG-1995 16:38
Client ID:
Sample Info: 9508G630-002 EAA821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ata file : /chem/gcl5.i/aug1595/aug2195.b/exdi01.d
ab Smp Id:
nj Date : 21-AUG-1995 16:38
perator : Inst ID: gcl5.i
mp Info : 9508G630-002 EAA821 ✓
isc Info : GCL#5,DIL=10,2.5MLSMP
omment :
ethod : /chem/gcl5.i/aug1595/aug2195.b/524.m
leth Date : 21-Aug-1995 19:33 naranjoe Quant Type: ISTD
al Date : 21-AUG-1995 11:57 Cal File: ebb821.d
ls bottle: 10
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.12

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
ompounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
	Acetone	43.00	11.325	11.332	(0.701)	441927	63.41	63.41	(M)
20	Fluorobenzene	95.95	16.153	16.160	(1.000)	228757	1.00		(M)
26	Toluene	92.00	19.143	19.177	(1.185)	62506	0.488	0.488	(MH)
33	Chlorobenzene-d5	117.00	21.964	21.963	(1.000)	148941	1.00		
42	p-Bromoflourobenzene	94.95	24.575	24.585	(1.119)	150024	1.06	1.06	(M)
56	1,2-Dichlorobenzene-d4	152.00	28.275	28.244	(1.287)	90162	1.07	1.07	(M)

C Flag Legend

- Compound response manually integrated.
- Operator selected an alternate compound hit.

Data File: /chem/gcl5.i/aug1595/aug2195.b/exdi01.d

Date : 21-AUG-1995 16:38

Client ID:

Sample Info: 9508G630-002 EAA821

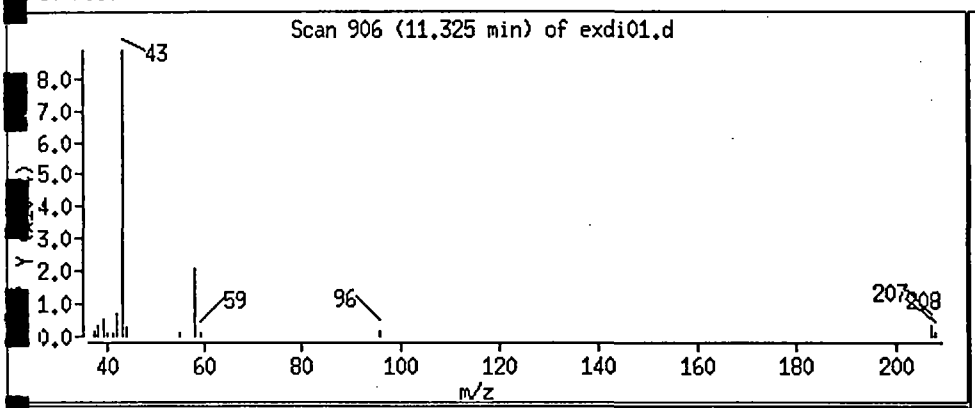
Instrument: gcl5.i

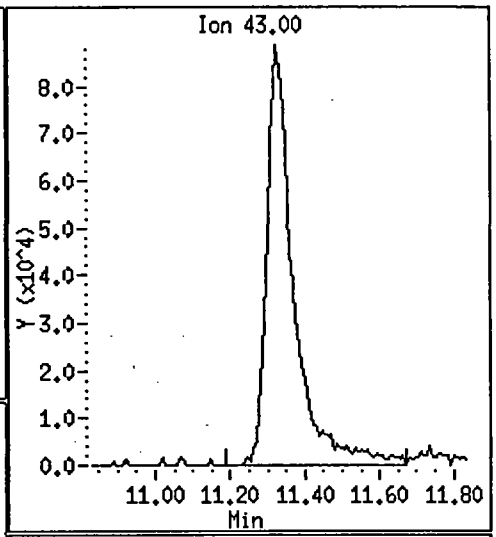
Operator:

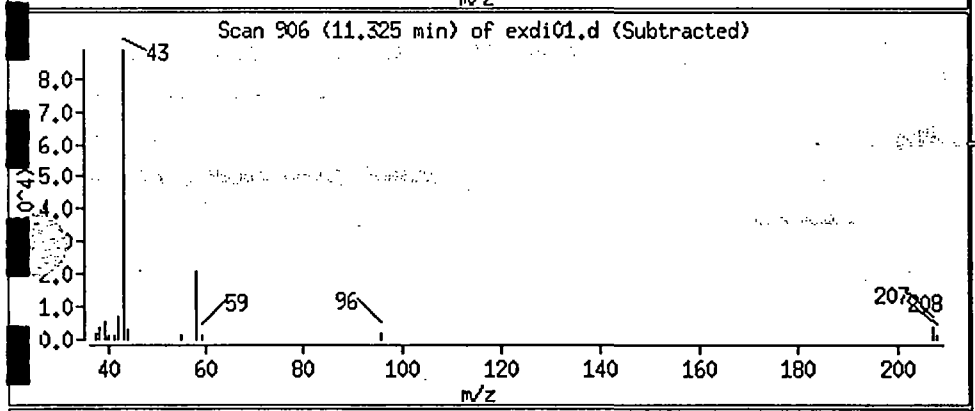
Column phase:

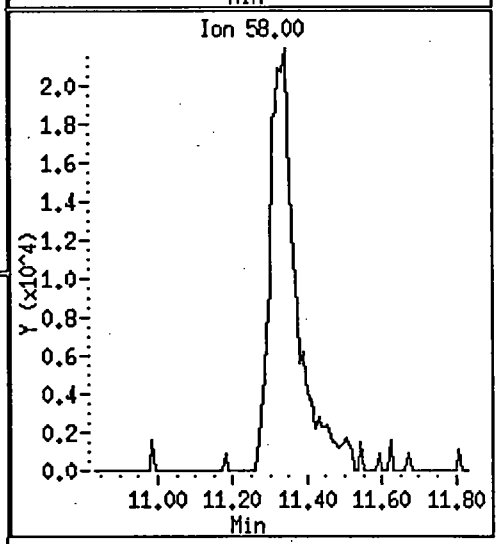
Column diameter: 2.00

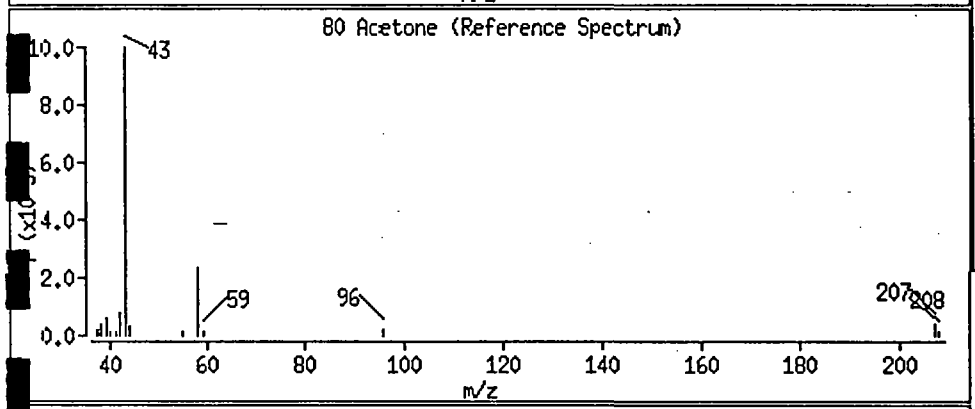
80 Acetone

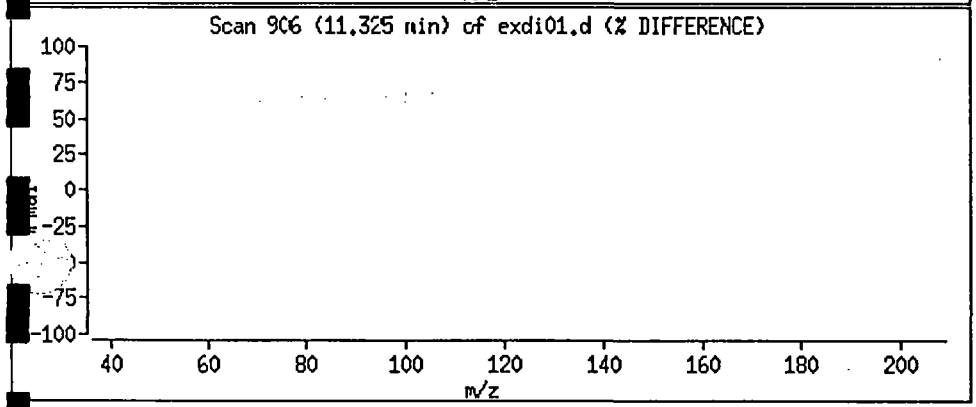












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-E2DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-002 DL

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI10

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	NA	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
75-69-4	Trichlorofluoromethane	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
156-59-2	cis-1,2-Dichloroethene	NA	
594-20-7	2,2-Dichloropropane	NA	
156-60-5	trans-1,2-Dichloroethene	NA	
67-66-3	Chloroform	NA	
74-97-5	Bromochloromethane	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
563-58-6	1,1-Dichloropropene	NA	
75-27-4	Bromodichloromethane	NA	
74-95-3	Dibromomethane	NA	
78-87-5	1,2-Dichloropropane	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
106-93-4	1,2-Dibromoethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
142-28-9	1,3-Dichloropropane	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
100-41-4	Ethylbenzene	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-E2DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-002 DL

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI10

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 50

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
100-42-5	Styrene	NA	
000-00-0	m/p-Xylene	NA	
95-47-6	o-Xylene	NA	
108-86-1	Bromobenzene	NA	
96-18-4	1,2,3-Trichloropropane	NA	
98-82-8	Isopropylbenzene	NA	
103-65-1	n-Propylbenzene	NA	
95-49-8	2-Chlorotoluene	NA	
106-43-4	4-Chlorotoluene	NA	
108-67-8	1,3,5-Trimethylbenzene	NA	
98-06-6	tert-Butylbenzene	NA	
95-63-6	1,2,4-Trimethylbenzene	NA	
135-98-8	sec-Butylbenzene	NA	
99-87-6	p-Isopropyltoluene	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
95-50-1	1,2-Dichlorobenzene	NA	
104-51-8	n-Butylbenzene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
120-82-1	1,2,4-Trichlorobenzene	NA	
87-68-3	Hexachlorobutadiene	NA	
91-20-3	Naphthalene	NA	
87-61-6	1,2,3-Trichlorobenzene	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
67-64-1	Acetone	450	B

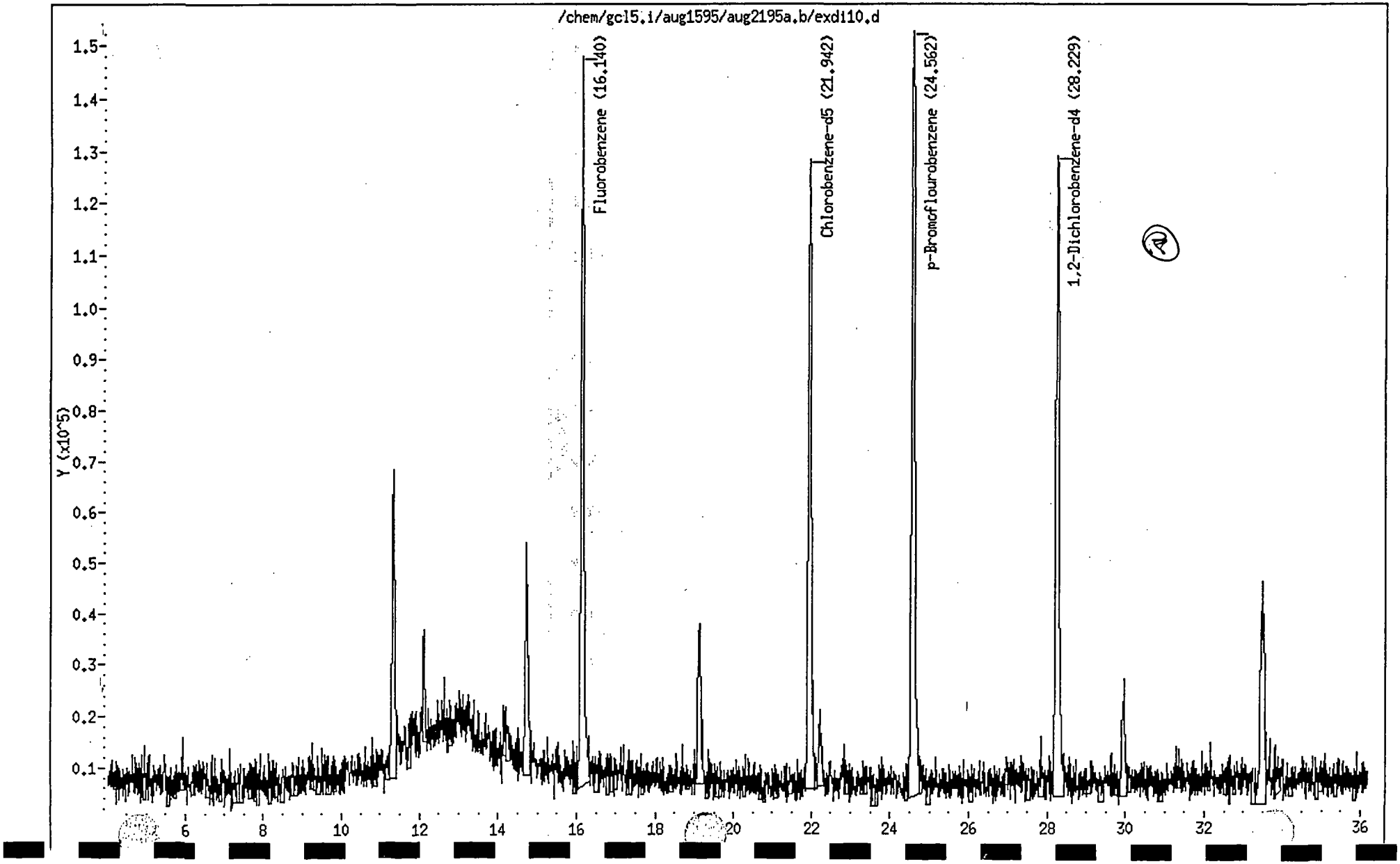
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi10.d
Date : 22-AUG-1995 01:38
Client ID:
Sample Info: 9508G630-002 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Report Date: 22-Aug-1995 16:15

D1

Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi10.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 01:38
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-002 EAB821 ✓
Misc Info : GCL#5,DIL=50, 0.5MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
Acetone B	43.00	11.320	11.324	(0.702)	206888	8.98	8.98 (M)	
Methylene chloride	84.00	12.094	12.098	(0.750)	18468	0.204	0.204 (M)	
* 20 Fluorobenzene	95.95	16.131	16.136	(1.000)	311564 ✓	1.00	(M)	
* 33 Chlorobenzene-d5	117.00	21.942	21.946	(1.000)	206393 ✓	1.00	(M)	
$ 42 p-Bromoflourobenzene	94.95	24.570	24.558	(1.120)	190244	~~9.63~~ ✓	9.63 (M)	0.963
$ 56 1,2-Dichlorobenzene-d4	152.00	28.237	28.217	(1.287)	110957	~~8.88~~ ✓	8.88 (M)	0.888

8/24/95

/ edit in LIMS

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi10.d

Date : 22-AUG-1995 01:38

Client ID:

Instrument: gcl5.i

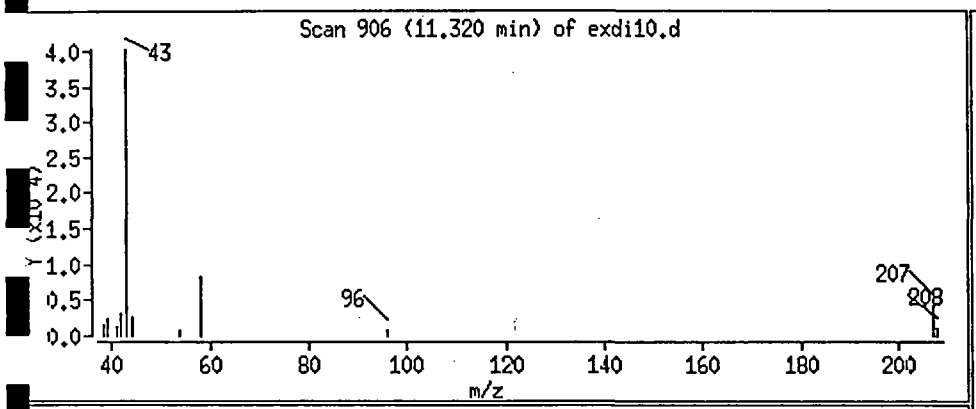
Sample Info: 9508G630-002 EAB821

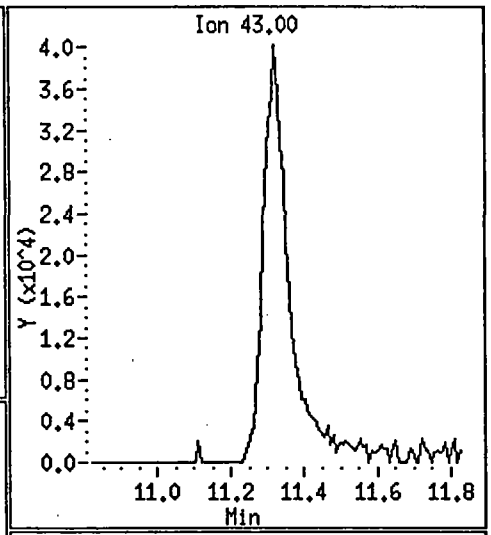
Operator:

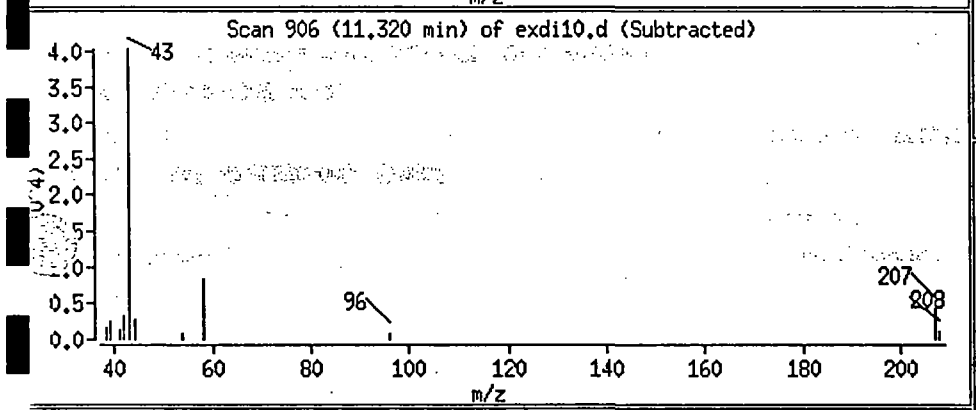
Column phase:

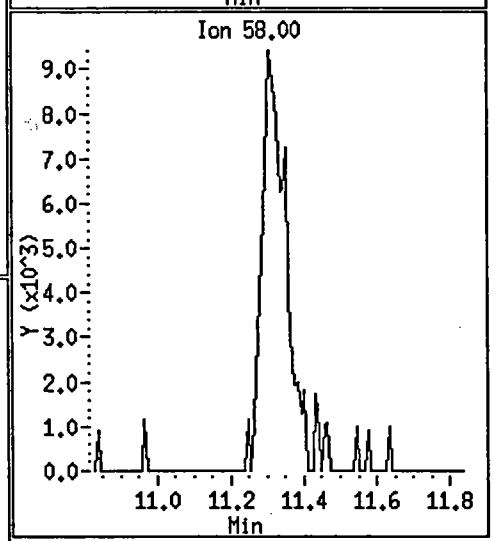
Column diameter: 2.00

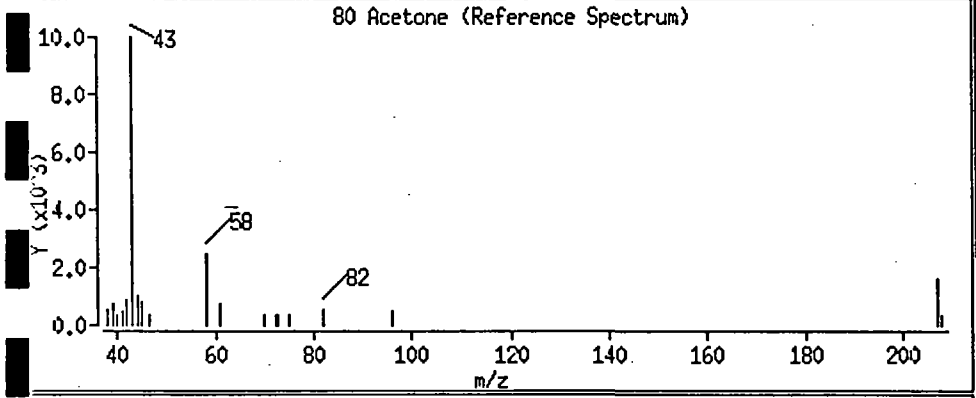
80 Acetone

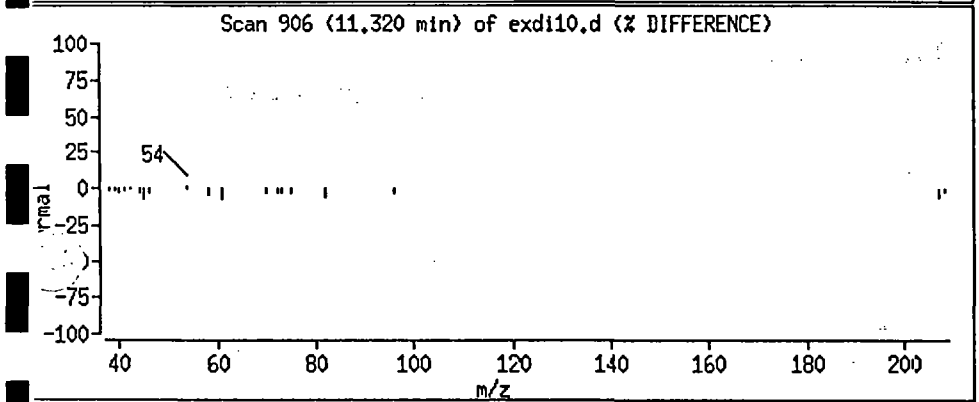












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-S2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-003

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI11

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-S2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-003

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI11

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

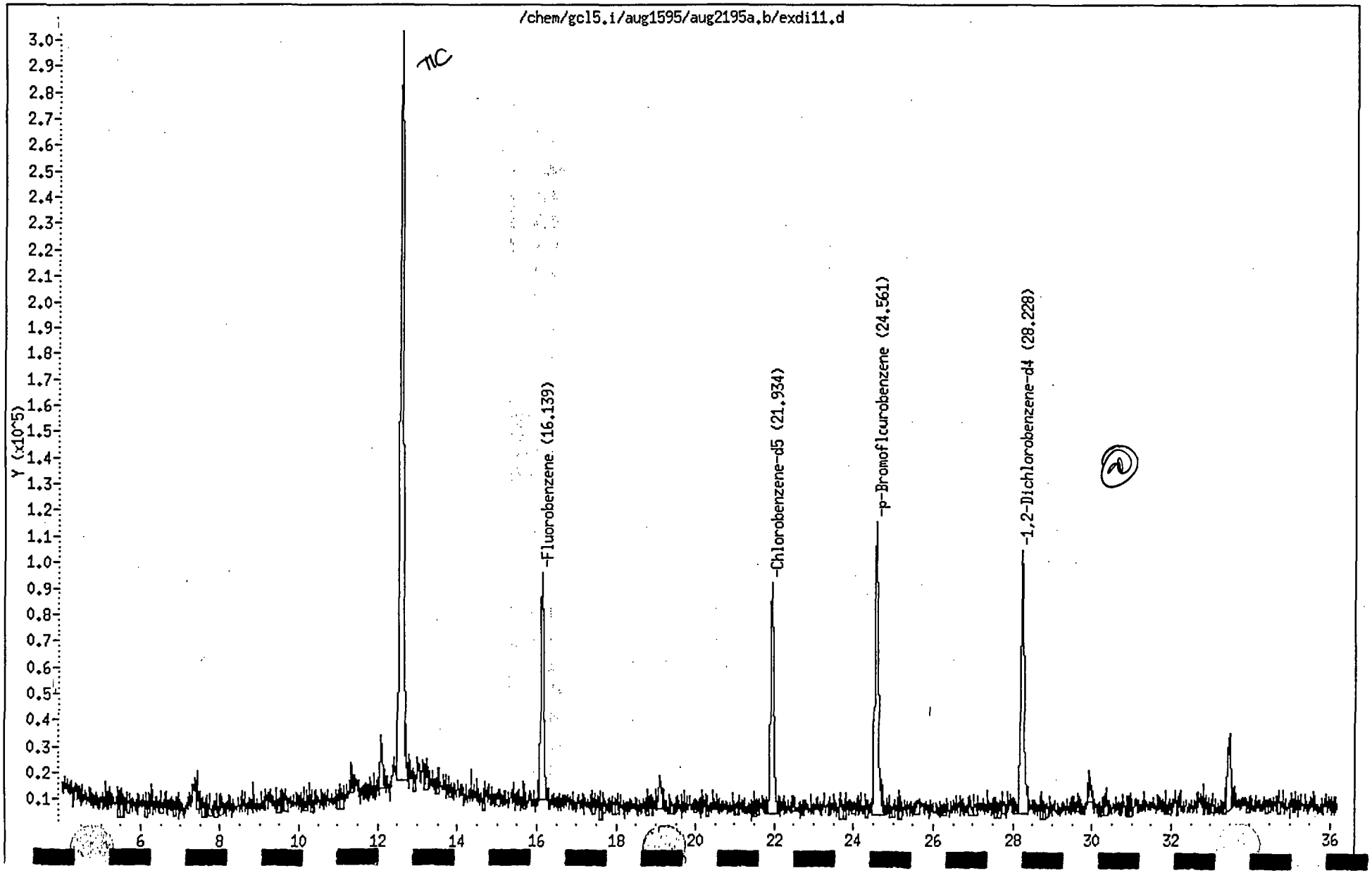
CAS NO.	COMPOUND		
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	2	U

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi11.d
Date : 22-AUG-1995 02:22
Client ID:
Sample Info: 9508G630-003 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi11.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 02:22
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-003 EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 21-Aug-1995 23:48 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
1 Methylene chloride	84.00	12.093	12.098	(0.749)	16765	0.260	0.260 (M)	
20 Fluorobenzene	95.95	16.139	16.136	(1.000)	221801 ✓	1.00	(M)	
33 Chlorobenzene-d5	117.00	21.942	21.946	(1.000)	143328 ✓	1.00	(M)	
42 p-Bromoflourobenzene	94.95	24.553	24.558	(1.119)	133637	~~9.74~~ ✓	9.74 (M)	0.971
56 1,2-Dichlorobenzene-d4	152.00	28.236	28.217	(1.287)	83331	~~9.60~~ ✓	9.60 (M)	0.960

8/24/95

QC Flag Legend

M - Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-W2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-004

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI12

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-W2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-004

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI12

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	2	U

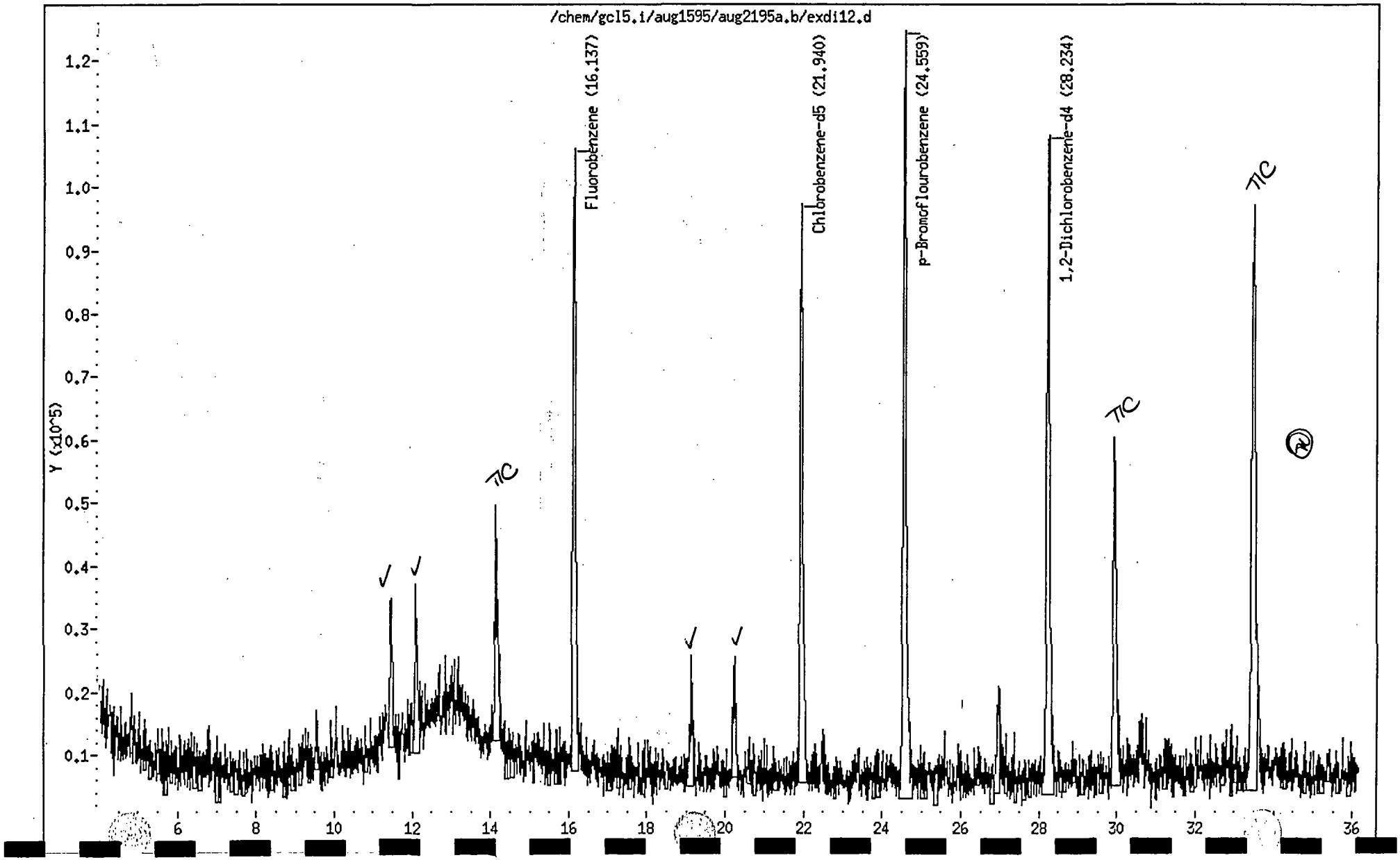
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi12.d
Date : 22-AUG-1995 03:06
Client ID:
Sample Info: 9508G630-004 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi12.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 03:06
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-004 EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Vials bottle: 16 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
1 Trichlorofluoromethane	101.00	10.036	10.026	(0.622)	8429	0.0454	0.0454(M)	
3 Acetone JB	43.00	11.317	11.324	(0.701)	21970	1.31	1.31(M)	
8 Methylene chloride	84.00	12.099	12.098	(0.750)	18795	0.284	0.284(M)	
* 20 Fluorobenzene	95.95	16.137	16.136	(1.000)	227262 ✓	1.00	(M)	
26 Toluene	92.00	19.119	19.134	(1.185)	17950	0.135	0.135(M)	
29 Tetrachloroethene	166.00	20.231	20.238	(1.254)	13252	0.0962	0.0962(M)	
* 33 Chlorobenzene-d5	117.00	21.932	21.946	(1.000)	151625 ✓	1.00	(M)	
42 p-Bromoflourobenzene	94.95	24.559	24.558	(1.120)	137463	9.47 ✓	9.47(M)	0.947
56 1,2-Dichlorobenzene-d4	152.00	28.226	28.217	(1.287)	87459	9.52 ✓	9.52(M)	0.952

8/24/95

QC Flag Legend

M - Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-N2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-005

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI13

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-N2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-005

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI13

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	2	U

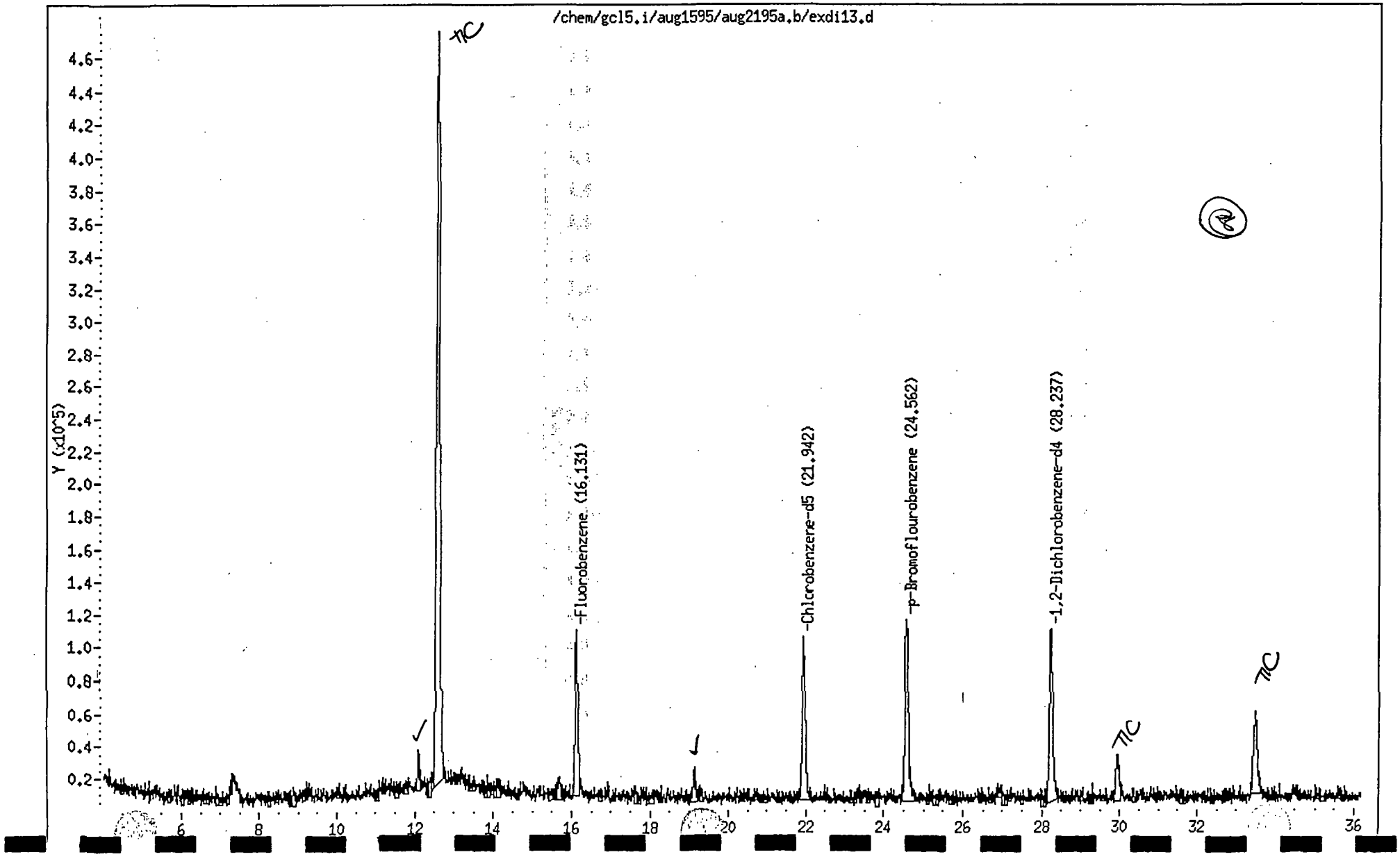
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi13.d
Date : 22-AUG-1995 03:49
Client ID:
Sample Info: 9508G630-005 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi13.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 03:49
Operator :
Inst ID: gcl5.i
Smp Info : 9508G630-005 EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
3 Methylene chloride	84.00	12.093	12.098	(0.750)	18266	0.269	0.269(MH)	
9 Fluorobenzene	95.95	16.131	16.136	(1.000)	233488 ✓	1.00	(M)	
26 Toluene	92.00	19.137	19.134	(1.186)	19198	0.141	0.141(MH)	
* 33 Chlorobenzene-d5	117.00	21.942	21.946	(1.000)	169269 ✓	1.00	(M)	
42 p-Bromoflourobenzene	94.95	24.578	24.558	(1.120)	141226	8.72 ✓	8.72(M)	0.872
$ 56 1,2-Dichlorobenzene-d4	152.00	28.229	28.217	(1.286)	84566	8.25 ✓	8.25(M)	0.825

8/31/95 ①

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

EP-2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 9508G630-006

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: EXDI05

Level: (low/med) LOW Date Received: 08/18/95

% Moisture: not dec. _____ Date Analyzed: 08/22/95

Column: (pack/cap) PACK Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
594-20-7	2,2-Dichloropropane	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
67-66-3	Chloroform	2	U
74-97-5	Bromochloromethane	2	U
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	2	U
563-58-6	1,1-Dichloropropene	2	U
75-27-4	Bromodichloromethane	2	U
74-95-3	Dibromomethane	2	U
78-87-5	1,2-Dichloropropane	2	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	2	U
142-28-9	1,3-Dichloropropane	2	U
75-25-2	Bromoform	2	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-88-3	Toluene	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	3	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

EP-2

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 9508G630-006

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: EXDI05

Level: (low/med) LOW Date Received: 08/18/95

% Moisture: not dec. _____ Date Analyzed: 08/22/95

Column: (pack/cap) PACK Dilution Factor: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

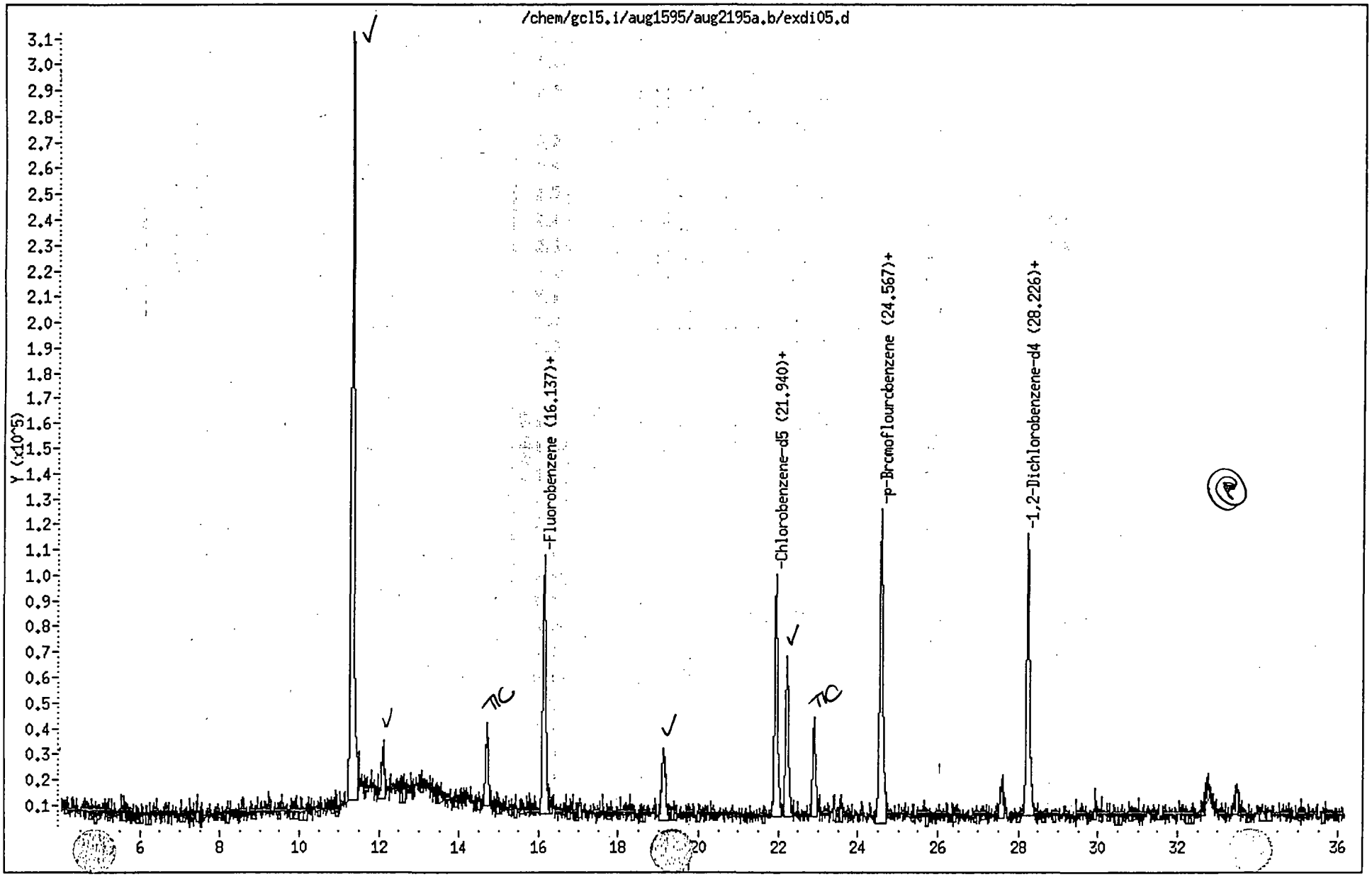
CAS NO.	COMPOUND		
100-42-5	Styrene	2	U
000-00-0	m/p-Xylene	2	U
95-47-6	o-Xylene	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
98-82-8	Isopropylbenzene	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
106-43-4	4-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
67-64-1	Acetone		E

Data File: /chem/gc15.i/aug1595/aug2195a.b/exdi05.d
Date : 22-AUG-1995 04:31
Client ID:
Sample Info: 9508G630-006 EAB821

Column phase:

Instrument: gc15.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug2195a.b/exdi05.d ✓
b Smp Id:
nj Date : 22-AUG-1995 04:31
perator :
p Info : 9508G630-006 EAB821 ✓ Inst ID: gcl5.i (a)
rsc Info : GCL#5,DIL=5, 5MLSMP 9508G630-006 EAB821
omment :
thod : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
th Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
al Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
s bottle: 2 QC Sample: BLANK
l Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.12

pounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
3 Acetone	43.00	11.309	11.324	(0.701)	995982	60.56 (E)	60.56(M)
4 Methylene chloride	84.00	12.083	12.098	(0.749)	16423	0.254	0.254(M)
20 Fluorobenzene	95.95	16.137	16.136	(1.000)	222520 ✓	1.00	(M)
26 Toluene	92.00	19.095	19.134	(1.183)	33001	0.254	0.254(M)
33 Chlorobenzene-d5	117.00	21.940	21.946	(1.000)	159382 ✓	1.00	(M)
36 Ethylbenzene	106.00	22.222	22.229	(1.013)	39190	0.521	0.521(M)
42 p-Bromoflourobenzene	94.95	24.551	24.558	(1.119)	149026	9.77 ✓	9.77(M)
56 1,2-Dichlorobenzene-d4	152.00	28.226	28.217	(1.287)	94458	9.78 ✓	9.78(M)

0.977
0.978
editin
ums

Flag Legend

- Compound response manually integrated.

8/23/95

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi05.d

Date : 22-AUG-1995 04:31

Client ID:

Sample Info: 9508G630-006 EAB821

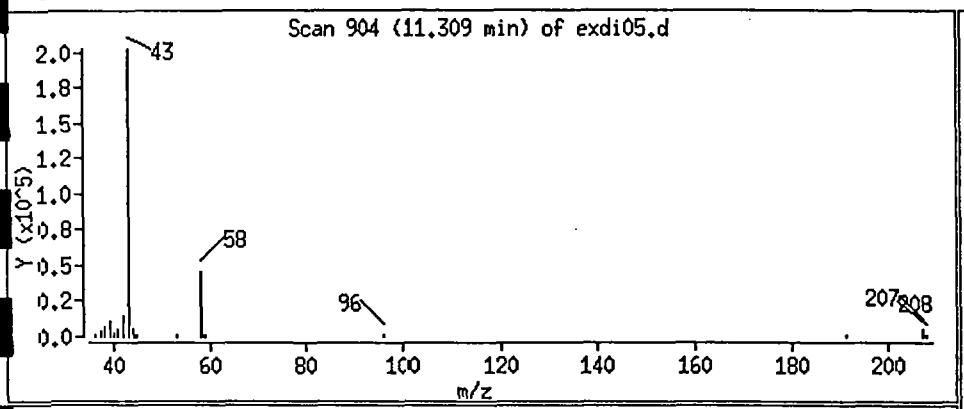
Instrument: gcl5.i

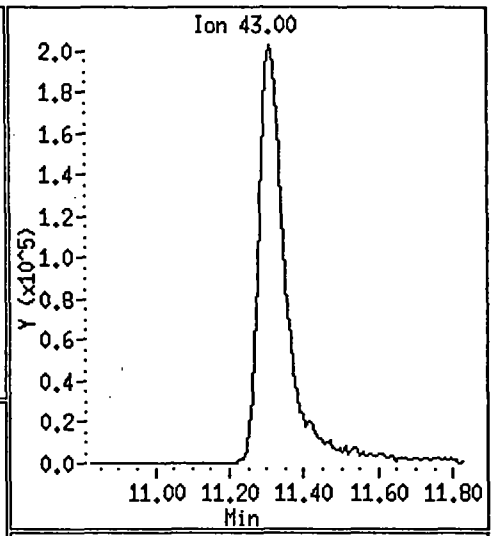
Operator:

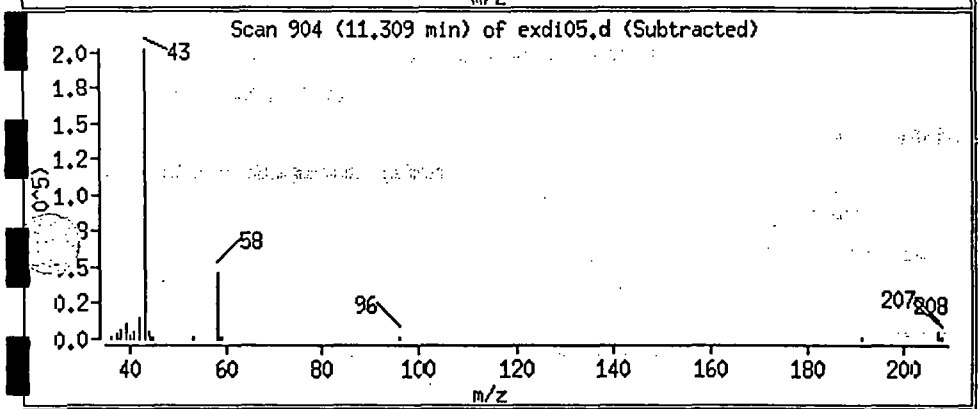
Column phase:

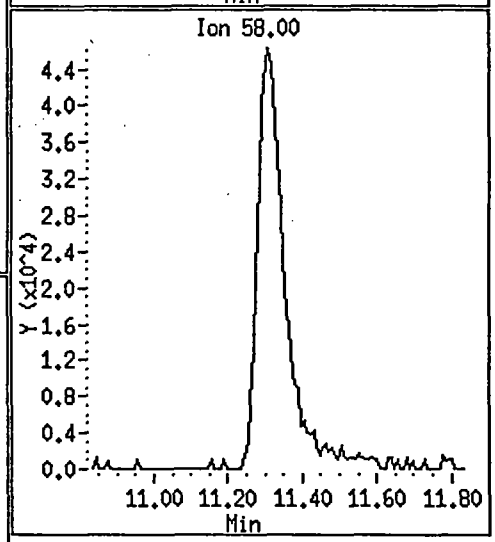
Column diameter: 2.00

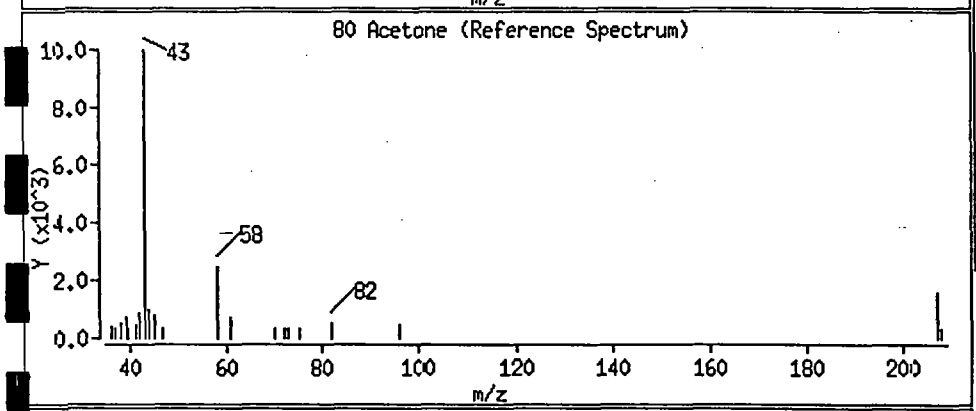
80 Acetone

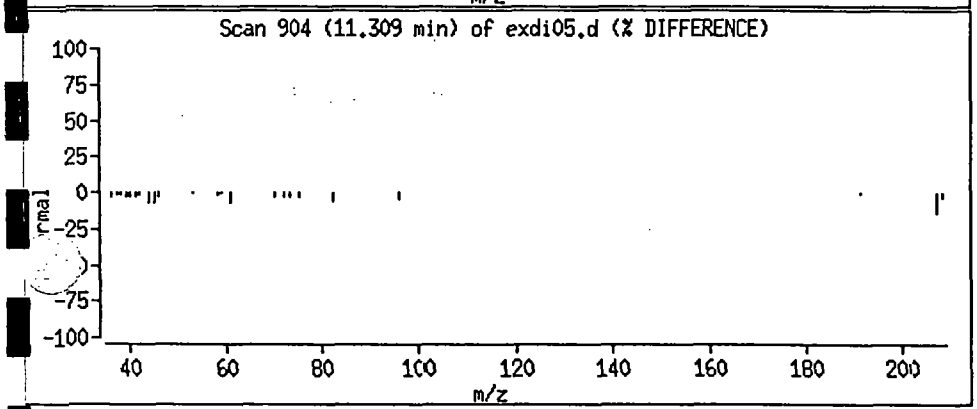












Data File: /chem/gc15.i/aug1595/aug2195a.b/exdi05.d

Date : 22-AUG-1995 04:31

Client ID:

Instrument: gc15.i

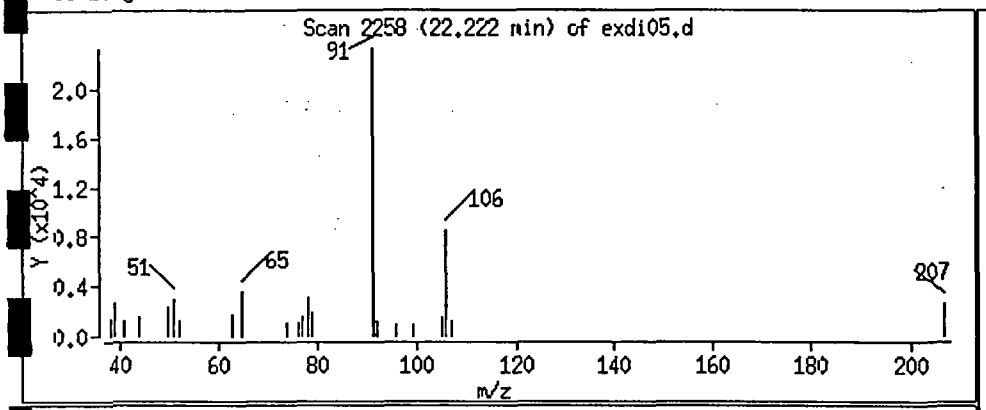
Sample Info: 9508G630-006 EAB821

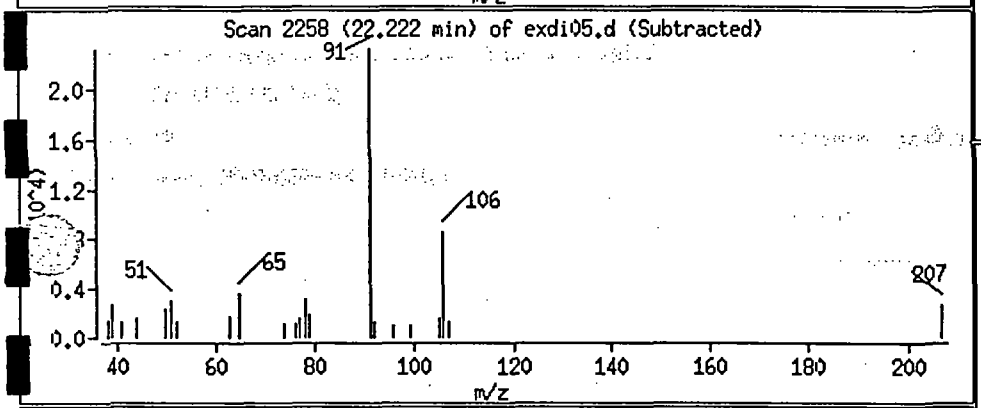
Operator:

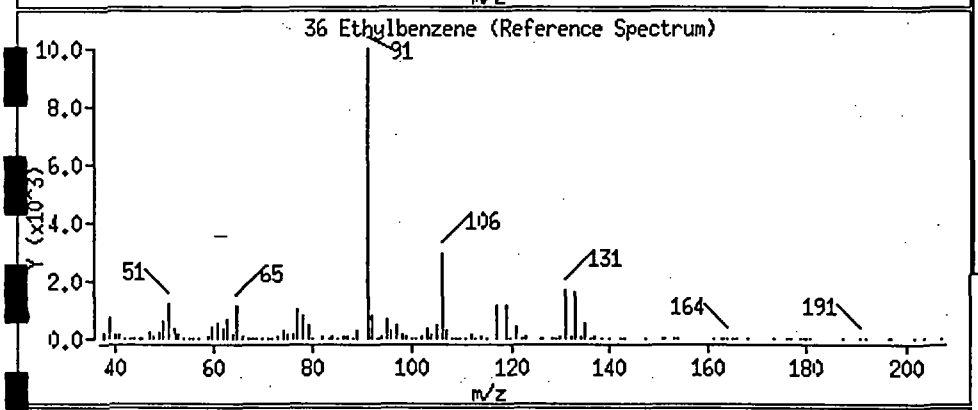
Column phase:

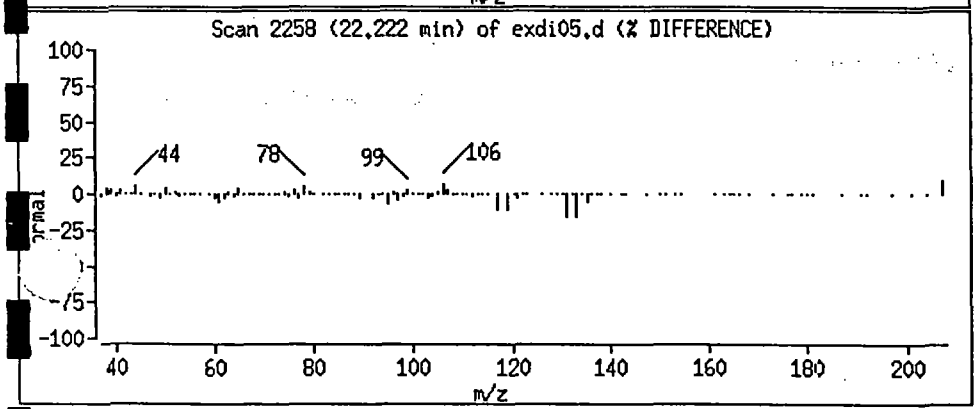
Column diameter: 2.00

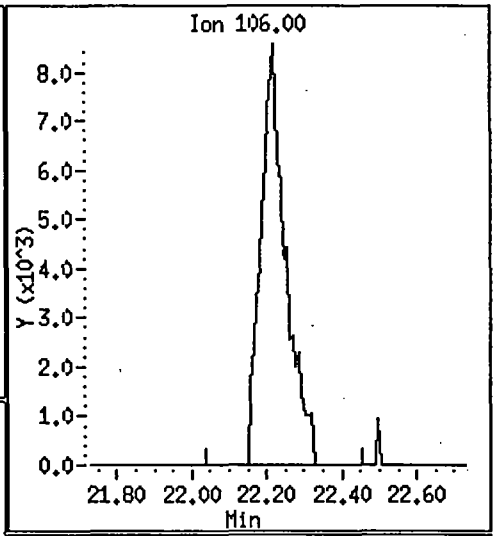
36 Ethylbenzene

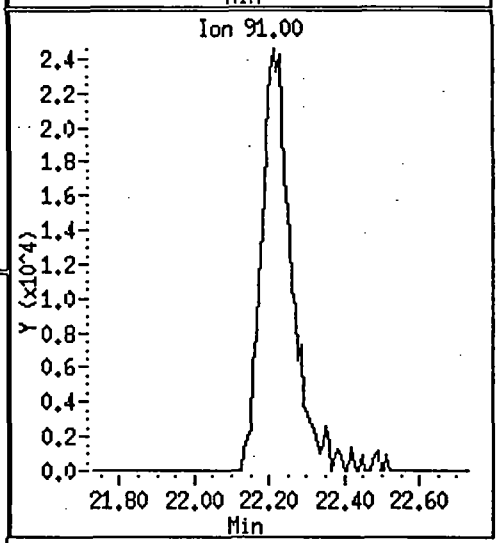












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

EP-2DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-006 DL

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI15

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/23/95

Column: (pack/cap) PACK

Dilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	NA	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
75-69-4	Trichlorofluoromethane	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
156-59-2	cis-1,2-Dichloroethene	NA	
594-20-7	2,2-Dichloropropane	NA	
156-60-5	trans-1,2-Dichloroethene	NA	
67-66-3	Chloroform	NA	
74-97-5	Bromochloromethane	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
563-58-6	1,1-Dichloropropene	NA	
75-27-4	Bromodichloromethane	NA	
74-95-3	Dibromomethane	NA	
78-87-5	1,2-Dichloropropane	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
106-93-4	1,2-Dibromoethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
142-28-9	1,3-Dichloropropane	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
100-41-4	Ethylbenzene	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

EP-2DL

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 9508G630-006 DL

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: EXDI15

Level: (low/med) LOW Date Received: 08/18/95

% Moisture: not dec. _____ Date Analyzed: 08/23/95

Column: (pack/cap) PACK Dilution Factor: 25

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	NA	
000-00-0	m/p-Xylene	NA	
95-47-6	o-Xylene	NA	
108-86-1	Bromobenzene	NA	
96-18-4	1,2,3-Trichloropropane	NA	
98-82-8	Isopropylbenzene	NA	
103-65-1	n-Propylbenzene	NA	
95-49-8	2-Chlorotoluene	NA	
106-43-4	4-Chlorotoluene	NA	
108-67-8	1,3,5-Trimethylbenzene	NA	
98-06-6	tert-Butylbenzene	NA	
95-63-6	1,2,4-Trimethylbenzene	NA	
135-98-8	sec-Butylbenzene	NA	
99-87-6	p-Isopropyltoluene	NA	
541-73-1	1,3-Dichlorobenzene	NA	
106-46-7	1,4-Dichlorobenzene	NA	
95-50-1	1,2-Dichlorobenzene	NA	
104-51-8	n-Butylbenzene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
120-82-1	1,2,4-Trichlorobenzene	NA	
87-68-3	Hexachlorobutadiene	NA	
91-20-3	Naphthalene	NA	
87-61-6	1,2,3-Trichlorobenzene	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
67-64-1	Acetone	420	B

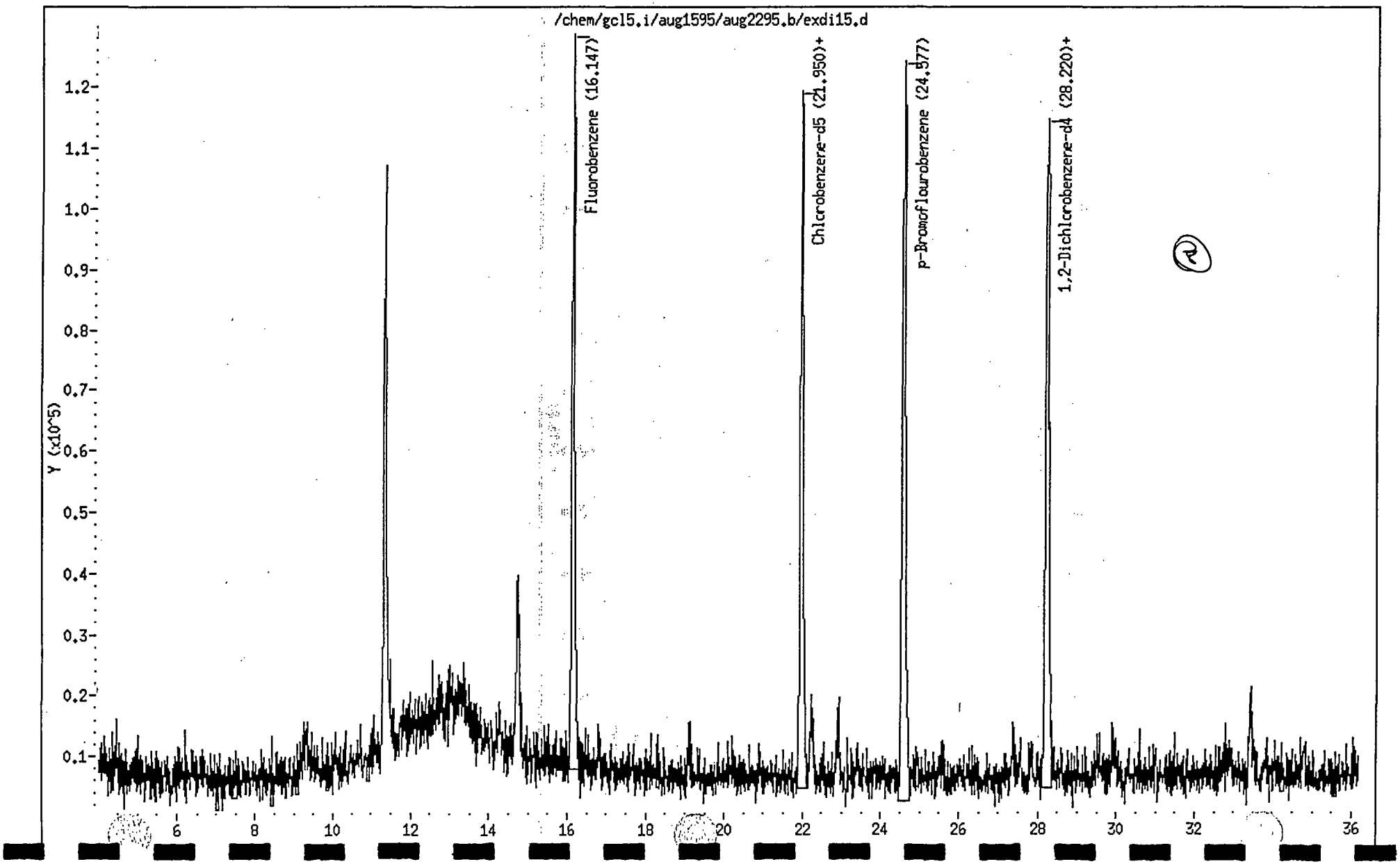
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2295.b/exdi15.d
Date : 23-AUG-1995 03:54
Client ID:
Sample Info: 9508G630-006 EAB822

Instrument: gcl5.i

Operator:
Column diameter: 2.00

Column phase:



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2295.b/exdi15.d ✓
Lab Smp Id:
Inj Date : 23-AUG-1995 03:54
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-006 EAA822 ✓
Misc Info : GCL#5,DIL=25,1MLOFW 9508G630-006 EAB822
Comment :
Method : /chem/gcl5.i/aug1595/aug2295.b/524.m ✓
Meth Date : 23-Aug-1995 13:21 rileymg Quant Type: ISTD
Cal Date : 22-AUG-1995 18:06 Cal File: eba822.d ✓
Als bottle: 14
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	5 Trichlorofluoromethane	101.00	10.022	10.045	(0.621)	1879	0.00835	0.00835
	8 Acetone B	43.00	11.328	11.351	(0.702)	315230	16.96	16.96(M)
	14 Chloroform	83.00	14.777	14.768	(0.915)	1070	0.00560	0.00560
*	20 Fluorobenzene	95.95	16.147	16.154	(1.000)	262822 ✓	1.00	
	21 Trichloroethene	130.00	16.824	16.799	(1.042)	1762	0.0140	0.0140
	26 Toluene	92.00	19.113	19.144	(1.184)	2255	0.0147	0.0147
*	33 Chlorobenzene-d5	117.00	21.958	21.965	(1.000)	139124 ✓	1.00	
	36 Ethylbenzene	106.00	22.224	22.255	(1.012)	3663	0.0481	0.0481
	37 m,p-Xylene	91.00	23.232	22.497	(1.012)	25505	0.118	0.118
	39 Styrene	104.00	23.425	23.416	(1.067)	2628	0.0192	0.0192
$	42 p-Bromoflourobenzene	94.95	24.561	24.585	(1.119)	121098	~~9.54~~ ✓	9.54
	53 1,3-Dichlorobenzene	146.00	27.350	27.172	(1.246)	3890	0.0247	0.0247
	55 1,4-Dichlorobenzene	146.00	27.350	27.381	(1.246)	3890	0.0296	0.0296
$	56 1,2-Dichlorobenzene-d4	152.00	28.220	28.227	(1.285)	86829	~~9.42~~ ✓	9.42
	58 1,2-Dichlorobenzene	146.00	28.301	28.284	(1.289)	1301	0.00957	0.00957

0.954
0.942
8/24/95
Edit in LIMS

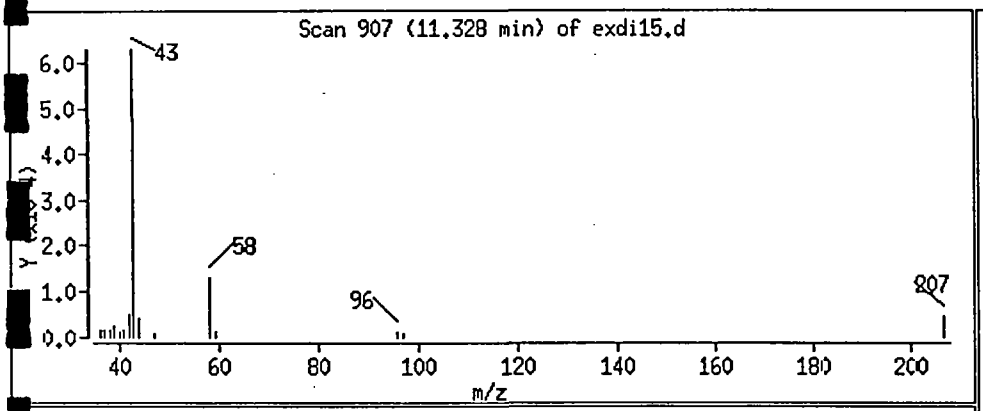
QC Flag Legend

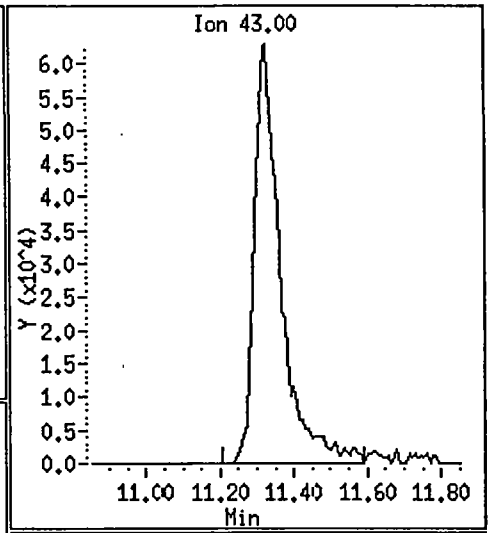
M - Compound response manually integrated.

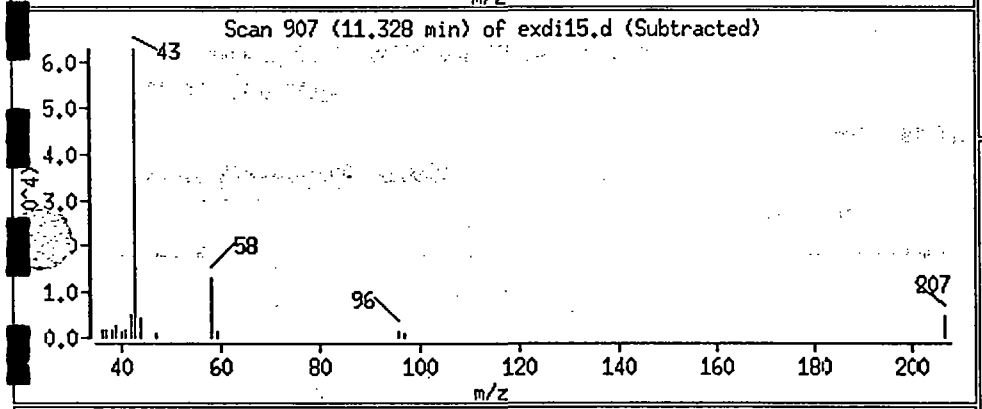
Data File: /chem/gcl5.i/aug1595/aug2295.b/exdi15.d
Date : 23-AUG-1995 03:54
Client ID:
Sample Info: 9508G630-006 EAB822

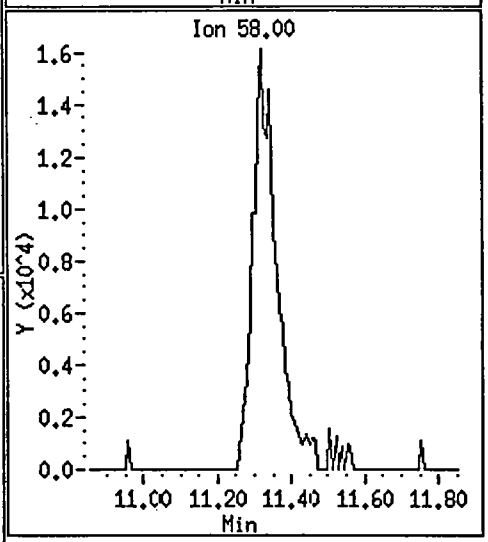
Instrument: gcl5.i
Operator:
Column phase:
Column diameter: 2.00

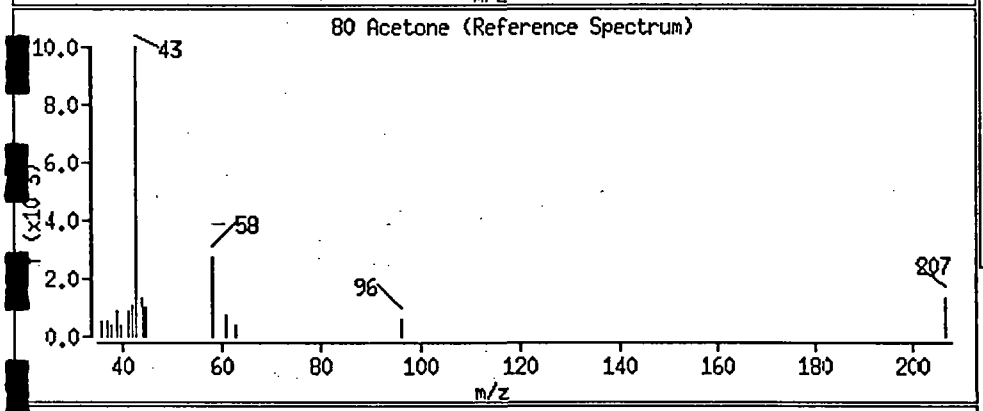
80 Acetone

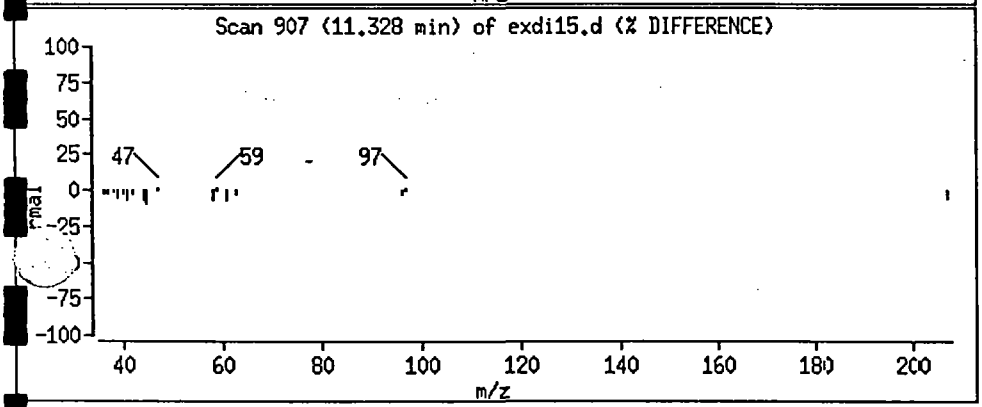












Gulf Coast

INITIAL CALIBRATION DATA

tart Cal Date : 19-AUG-1995 13:04
nd Cal Date : 19-AUG-1995 15:36
uant Method : ISTD
rget Version : 3.12
ntegrator : HP RTE
ethod file : /chem/gcl5.i/aug1595/aug1995.b/524.m
l Date : 22-Aug-1995 12:15 rileymg
urve Type : Average

alibration File Names:
evel 1: /chem/gcl5.i/aug1595/aug1995.b/ebf819.d
evel 2: /chem/gcl5.i/aug1595/aug1995.b/ebd819.d
evel 3: /chem/gcl5.i/aug1595/aug1995.b/ebe819.d

Compound	1 Level 1	10 Level 2	20 Level 3	RRF	% RSD	
1 Dichlorodifluoromethane	0.38919	0.43334	0.41174	0.41143	5.366	
2 Chloromethane	0.27435	0.30698	0.25411	0.27848	9.580	
3 Vinyl chloride	0.28049	0.31784	0.28591	0.29475	6.848	
4 Bromomethane	0.38337	0.40018	0.44351	0.40902	7.586	
5 Chloroethane	0.20839	0.20290	0.21529	0.20886	2.971	
6 Trichlorofluoromethane	0.69157	0.70127	0.71189	0.70158	1.449	
7 1,1-Dichloroethene	0.33356	0.32821	0.35183	0.33787	3.665	
80 Acetone	+++++	+++++	+++++	+++++	+++++	<-
8 Methylene chloride	0.31183	0.27108	0.27717	0.28669	7.667	
9 trans-1,2-Dichloroethene	0.30341	0.33031	0.33651	0.32341	5.442	
10 1,1-Dichloroethane	0.68726	0.62463	0.66539	0.65909	4.823	
11 2,2-Dichloropropane	0.39351	0.40624	0.36477	0.38818	5.473	
12 cis-1,2-Dichloroethene	0.33748	0.33307	0.34324	0.33793	1.509	
13 Bromochloromethane	0.18436	0.16163	0.16725	0.17108	6.918	
14 Chloroform	0.63059	0.66803	0.67790	0.65884	3.788	
15 1,1,1-Trichloroethane	0.55715	0.59238	0.59055	0.58003	3.420	
16 1,1-Dichloropropene	0.50132	0.54698	0.55369	0.53399	5.337	
17 Carbon tetrachloride	0.44855	0.54579	0.57058	0.52164	12.365	
18 Benzene	0.88100	0.87974	0.86885	0.87653	0.762	
19 1,2-Dichloroethane	0.32946	0.29375	0.28787	0.30369	7.411	
21 Trichloroethene	0.43302	0.43050	0.44116	0.43489	1.282	
22 1,2-Dichloropropane	0.30244	0.32116	0.32321	0.31560	3.627	
23 Dibromomethane	0.25166	0.20722	0.20982	0.22290	11.189	
24 Bromodichloromethane	0.44540	0.51591	0.53242	0.49791	9.282	
25 cis-1,3-Dichloropropene	0.28511	0.37975	0.37724	0.34737	15.526	
26 Toluene	0.55273	0.56516	0.56207	0.55999	1.155	
27 trans-1,3-Dichloropropene	0.19319	0.25989	0.25169	0.23492	15.483	
28 1,1,2-Trichloroethane	0.19542	0.16573	0.16540	0.17552	9.821	
29 Tetrachloroethene	0.52387	0.54660	0.53190	0.53413	2.158	

Gulf Coast

INITIAL CALIBRATION DATA

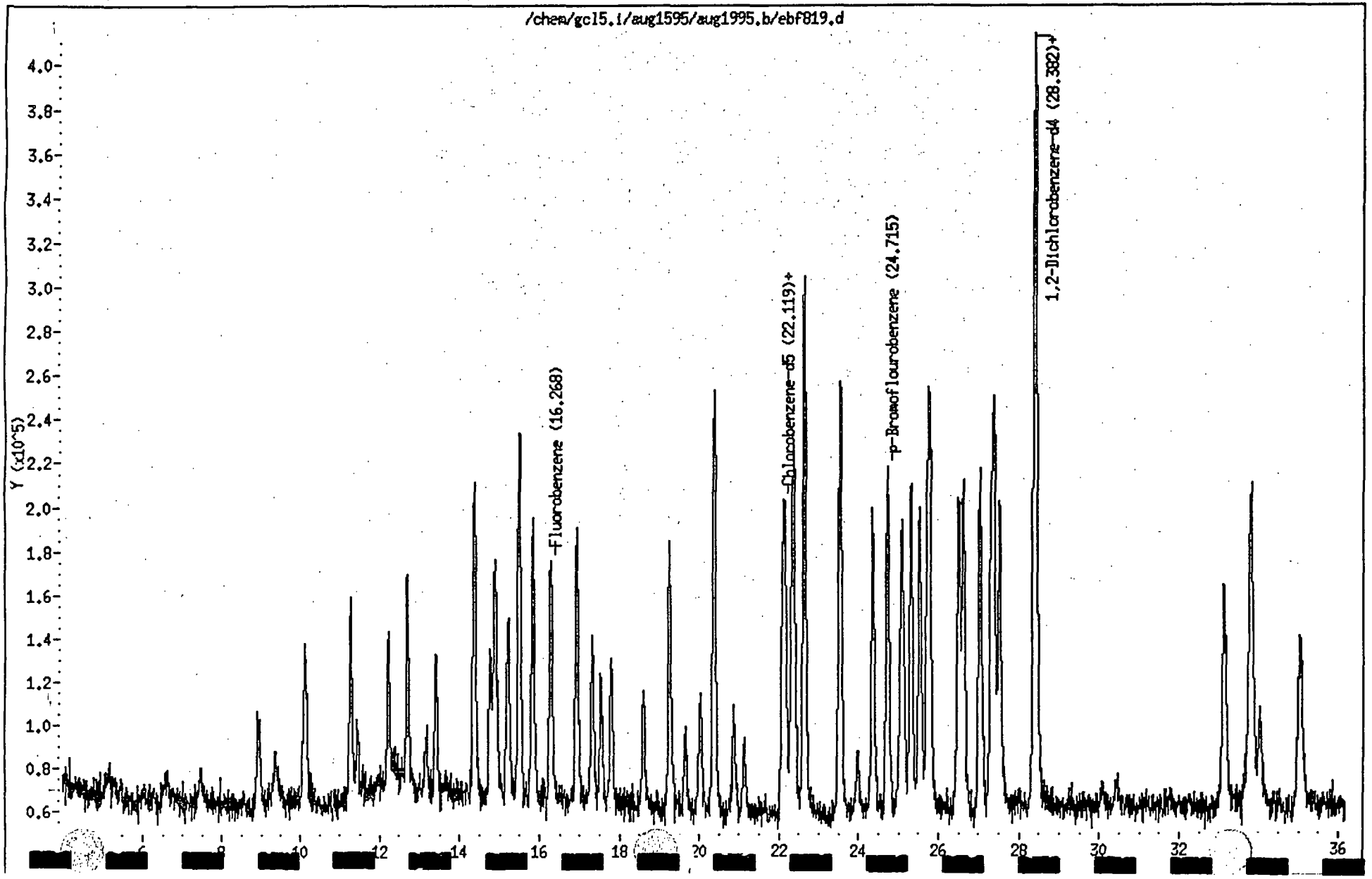
Start Cal Date : 19-AUG-1995 13:04
End Cal Date : 19-AUG-1995 15:36
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl5.i/aug1595/aug1995.b/524.m
Cal Date : 22-Aug-1995 12:15 rileymg
Curve Type : Average

Compound	1 Level 1	10 Level 2	20 Level 3	RRF	% RSD
30 1,3-Dichloropropane	0.29837	0.27879	0.26086	0.27934	6.717
31 Dibromochloromethane	0.21276	0.23313	0.24750	0.23113	7.551
32 1,2-Dibromoethane	0.28057	0.24433	0.25021	0.25837	7.529
34 Chlorobenzene	0.67533	0.68889	0.69314	0.68579	1.356
35 1,1,1,2-Tetrachloroethane	0.43517	0.49120	0.57342	0.49993	13.910
36 Ethylbenzene	0.46323	0.50496	0.57359	0.51393	10.842
m,p-Xylene	1.26488	1.38932	1.63078	1.42833	13.025
38 o-Xylene	1.25413	1.35962	1.60377	1.40584	12.757
39 Styrene	0.86900	0.90427	1.06142	0.94490	10.842
40 Bromoform	0.24589	0.25890	0.33327	0.27935	16.875
41 Isopropylbenzene	1.68306	1.85851	2.20657	1.91605	13.906
43 Bromobenzene	0.48384	0.48956	0.59031	0.52123	11.489
44 1,1,2,2-Tetrachloroethane	0.36002	0.30961	0.38467	0.35143	10.888
45 1,2,3-Trichloropropane	0.09331	0.06917	0.07623	0.07957	15.601
46 n-Propylbenzene	2.24933	2.38269	2.84404	2.49202	12.523
47 2-Chlorotoluene	1.39858	1.50879	1.65858	1.52198	8.574
48 1,3,5-Trimethylbenzene	1.80449	1.59943	2.23221	1.87871	17.185
49 4-Chlorotoluene	1.40294	1.56800	1.95021	1.64038	17.113
50 tert-Butylbenzene	1.32854	1.61164	1.90925	1.61648	17.964
51 1,2,4-Trimethylbenzene	1.45102	1.58301	1.86326	1.63243	12.896
52 sec-Butylbenzene	2.19397	2.41446	2.89788	2.50211	14.390
53 1,3-Dichlorobenzene	0.95737	0.91480	1.10481	0.99233	10.048
54 p-Isopropyltoluene	1.66602	1.84349	2.14452	1.88468	12.835
55 1,4-Dichlorobenzene	0.92770	0.89792	1.10815	0.97792	11.633
57 n-Butylbenzene	1.81920	1.98546	2.35486	2.05318	13.354
58 1,2-Dichlorobenzene	0.82693	0.76331	0.91990	0.83671	9.412
59 1,2-Dibromo-3-Chloropropane	0.06922	0.05256	0.07083	0.06421	15.755
60 1,2,4-Trichlorobenzene	0.79106	0.67325	0.80369	0.75600	9.516
61 Hexachlorobutadiene	0.86724	0.80027	0.93937	0.86896	8.006
62 Naphthalene	0.70692	0.54647	0.68797	0.64712	13.549
63 1,2,3-Trichlorobenzene	0.64340	0.53767	0.64215	0.60774	9.985
2 p-Bromoflourobenzene	1.08768	0.80672	0.94359	0.94600	14.851
56 1,2-Dichlorobenzene-d4	0.64475	0.48208	0.57294	0.56659	14.388

Data File: /chem/gcl5.i/aug1595/aug1995.b/ebf819.d
Date : 19-AUG-1995 15:36
Client ID:
Sample Info: 1STD EAA819

Instrument: gcl5.i
Operator:
Column diameter: 2.00

Column phase:



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug1995.b/ebf819.d
b Smp Id:
nj Date : 19-AUG-1995 15:36
erator : Inst ID: gcl5.i
b Info : 1STD EAA819
isc Info : GCL#5,DIL=1,25ML0FW+10ULIS+1ULSS+1UL606
omment :
thod : /chem/gcl5.i/aug1595/aug1995.b/524.m
eth Date : 22-Aug-1995 12:15 rileymg Quant Type: ISTD
al Date : 19-AUG-1995 13:48 Cal File: ebd819.d
s bottle: 6 Calibration Sample, Level: 1
l Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
Dichlorodifluoromethane	85.00	5.130	5.130	(0.315)	97963	1.00	0.946(M)
2 Chloromethane	50.00	6.581	6.581	(0.405)	69056	1.00	0.985(M)
3 Vinyl chloride	62.00	7.451	7.451	(0.458)	70602	1.00	0.952(M)
4 Bromomethane	94.00	8.894	8.894	(0.547)	96496	1.00	0.937(M)
5 Chloroethane	64.00	9.337	9.337	(0.574)	52453	1.00	0.998(M)
6 Trichlorofluoromethane	101.00	10.127	10.127	(0.622)	174072	1.00	0.986(M)
7 1,1-Dichloroethene	96.00	11.247	11.247	(0.691)	83960	1.00	0.987(M)
8 Methylene chloride	84.00	12.198	12.198	(0.750)	78489	1.00	1.09
9 trans-1,2-Dichloroethene	96.00	12.682	12.682	(0.780)	76370	1.00	0.938
10 1,1-Dichloroethane	63.00	13.399	13.399	(0.824)	172988	1.00	1.04(M)
11 2,2-Dichloropropane	77.00	14.350	14.350	(0.882)	99050	1.00	1.01(M)
12 cis-1,2-Dichloroethene	96.00	14.366	14.366	(0.883)	84947	1.00	0.999(M)
13 Bromochloromethane	128.00	14.753	14.753	(0.907)	46404	1.00	1.08(M)
14 Chloroform	83.00	14.874	14.874	(0.914)	158725	1.00	0.957
15 1,1,1-Trichloroethane	97.00	15.196	15.196	(0.934)	140238	1.00	0.960(M)
16 1,1-Dichloropropene	75.00	15.462	15.462	(0.950)	126185	1.00	0.939(M)
17 Carbon tetrachloride	117.00	15.478	15.478	(0.951)	112902	1.00	0.860
18 Benzene	78.00	15.825	15.825	(0.973)	221754	1.00	1.00(M)
19 1,2-Dichloroethane	62.00	15.841	15.841	(0.974)	82927	1.00	1.08(M)
20 Fluorobenzene	95.95	16.268	16.268	(1.000)	251707	1.00	
21 Trichloroethene	130.00	16.921	16.921	(1.040)	108994	1.00	0.996(M)
22 1,2-Dichloropropane	63.00	17.308	17.308	(1.064)	76126	1.00	0.958(M)
23 Dibromomethane	93.00	17.509	17.509	(1.076)	63345	1.00	1.13(M)
24 Bromodichloromethane	83.00	17.791	17.791	(1.094)	112111	1.00	0.894(M)
25 cis-1,3-Dichloropropene	75.00	18.589	18.589	(1.143)	71764	1.00	0.821
Toluene	92.00	19.242	19.242	(1.183)	139126	1.00	0.987(M)
trans-1,3-Dichloropropene	75.00	19.653	19.653	(1.208)	48627	1.00	0.822(M)
28 1,1,2-Trichloroethane	97.00	20.016	20.016	(1.230)	49189	1.00	1.11(M)
29 Tetrachloroethene	166.00	20.354	20.354	(1.251)	131863	1.00	0.981

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
30 1,3-Dichloropropane	76.00	20.370	20.370	(1.252)	75102	1.00	1.07
31 Dibromochloromethane	127.00	20.862	20.862	(1.282)	53554	1.00	0.920(M)
32 1,2-Dibromoethane	107.00	21.104	21.104	(1.297)	70622	1.00	1.08(M)
33 Chlorobenzene-d5	117.00	22.079	22.079	(1.000)	175069	1.00	
34 Chlorobenzene	112.00	22.152	22.152	(1.362)	169985	1.00	0.985
35 1,1,1,2-Tetrachloroethane	131.00	22.313	22.313	(1.011)	76185	1.00	0.870
36 Ethylbenzene	106.00	22.369	22.369	(1.013)	81098	1.00	0.901
37 m,p-Xylene	91.00	22.619	22.619	(1.024)	442883	2.00	1.77
38 o-Xylene	91.00	23.498	23.498	(1.064)	219559	1.00	0.892(M)
39 Styrene	104.00	23.538	23.538	(1.066)	152135	1.00	0.920(M)
40 Bromoform	173.00	23.957	23.957	(1.085)	43048	1.00	0.880(M)
41 Isopropylbenzene	105.00	24.336	24.336	(1.102)	294652	1.00	0.878
42 p-Bromoflourobenzene	94.95	24.698	24.698	(1.119)	190419	1.00	1.15
43 Bromobenzene	156.00	25.077	25.077	(1.136)	84705	1.00	0.928(M)
44 1,1,2,2-Tetrachloroethane	83.00	25.021	25.021	(1.133)	63028	1.00	1.02(M)
45 1,2,3-Trichloropropane	110.00	25.126	25.126	(1.138)	16336	1.00	1.17(M)
46 n-Propylbenzene	91.00	25.303	25.303	(1.146)	393788	1.00	0.903
47 2-Chlorotoluene	91.00	25.512	25.512	(1.155)	244848	1.00	0.919
48 1,3,5-Trimethylbenzene	105.00	25.706	25.706	(1.164)	315910	1.00	0.960(M)
49 4-Chlorotoluene	91.00	25.762	25.762	(1.167)	245611	1.00	0.855
tert-Butylbenzene	119.00	26.512	26.512	(1.201)	232587	1.00	0.822(M)
1,2,4-Trimethylbenzene	105.00	26.600	26.600	(1.205)	254028	1.00	0.889(M)
52 sec-Butylbenzene	105.00	27.020	27.020	(1.224)	384097	1.00	0.877
53 1,3-Dichlorobenzene	146.00	27.310	27.310	(1.237)	167606	1.00	0.965
54 p-Isopropyltoluene	119.00	27.366	27.366	(1.239)	291668	1.00	0.884(M)
55 1,4-Dichlorobenzene	146.00	27.503	27.503	(1.246)	162411	1.00	0.949(M)
56 1,2-Dichlorobenzene-d4	152.00	28.382	28.382	(1.285)	112876	1.00	1.14(M)
57 n-Butylbenzene	91.00	28.374	28.374	(1.285)	318486	1.00	0.886
58 1,2-Dichlorobenzene	146.00	28.430	28.430	(1.288)	144770	1.00	0.988
59 1,2-Dibromo-3-Chloropropane	75.00	30.437	30.437	(1.379)	12119	1.00	1.08(M)
60 1,2,4-Trichlorobenzene	180.00	33.104	33.104	(1.499)	138490	1.00	1.05(M)
61 Hexachlorobutadiene	225.00	33.781	33.781	(1.530)	151826	1.00	0.998(M)
62 Naphthalene	128.00	34.023	34.023	(1.541)	123760	1.00	1.09(M)
63 1,2,3-Trichlorobenzene	180.00	35.023	35.023	(1.586)	112640	1.00	1.06(M)

)C Flag Legend

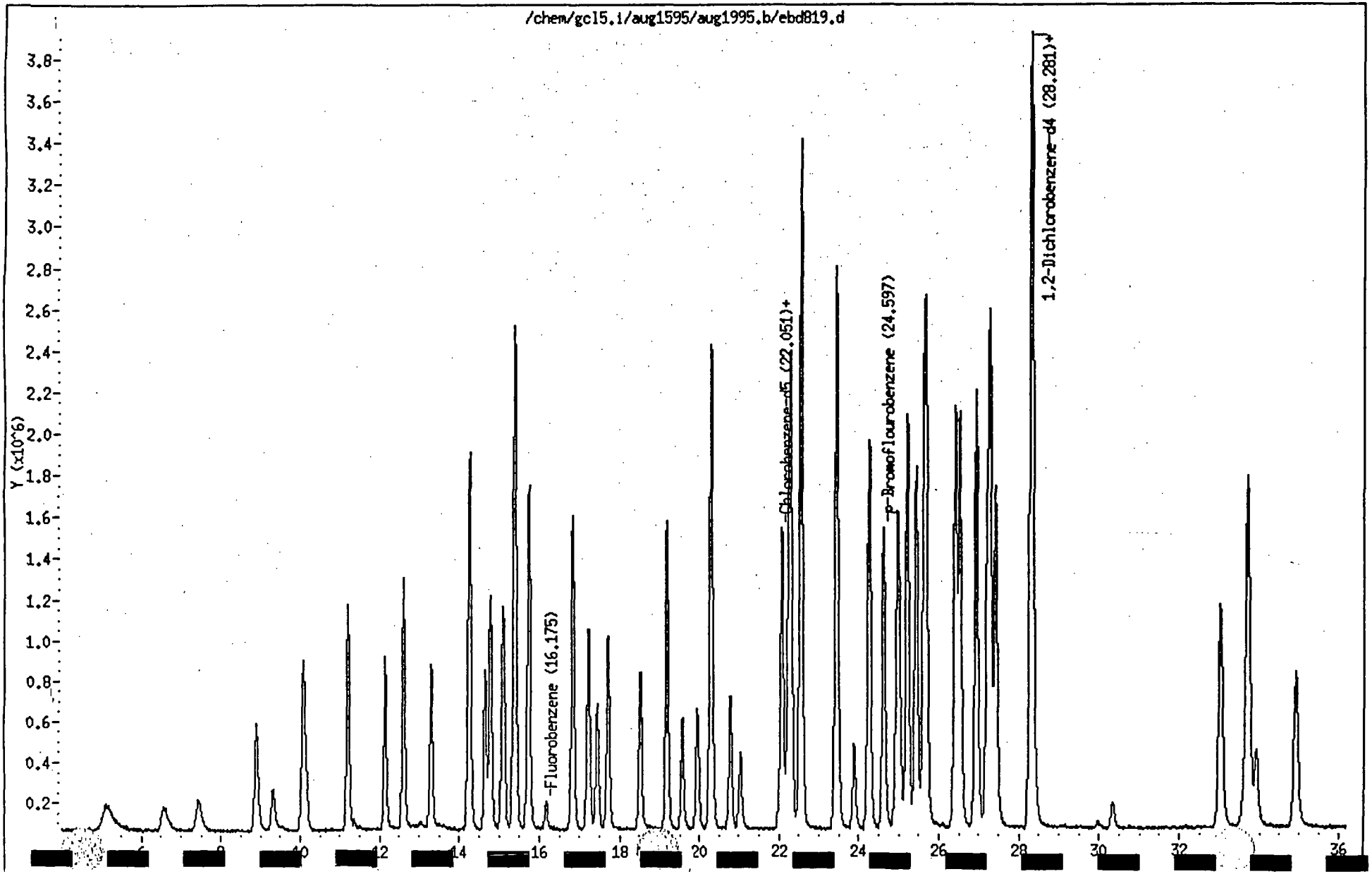
- Compound response manually integrated.

Data File: /chem/gcl5.i/aug1595/aug1995.b/ebd819.d
Date : 19-AUG-1995 13:48
Client ID:
Sample Info: STD10 EAA819

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug1995.b/ebd819.d
Lab Smp Id:
Inj Date : 19-AUG-1995 13:48
Operator : Inst ID: gcl5.i
Smp Info : STD10 EAA819
Misc Info : GCL#5,DIL=1.25MLOFW+10ULIS+10ULSS+10UL606
Comment :
Method : /chem/gcl5.i/aug1595/aug1995.b/524.m
Meth Date : 22-Aug-1995 10:51 naranjoe Quant Type: ISTD
Cal Date : 19-AUG-1995 13:48 Cal File: ebd819.d
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.134	5.134	(0.318)	1359871	10.00	10.53(M)
2 Chloromethane	50.00	6.552	6.552	(0.405)	963338	10.00	11.02(M)
3 Vinyl chloride	62.00	7.447	7.447	(0.461)	997420	10.00	10.78(M)
4 Bromomethane	94.00	8.873	8.873	(0.549)	1255797	10.00	9.78
5 Chloroethane	64.00	9.317	9.317	(0.577)	636732	10.00	9.71
6 Trichlorofluoromethane	101.00	10.066	10.066	(0.623)	2200651	10.00	10.0
7 1,1-Dichloroethene	96.00	11.194	11.194	(0.693)	1029952	10.00	9.71
8 Methylene chloride	84.00	12.121	12.121	(0.750)	850660	10.00	9.46
9 trans-1,2-Dichloroethene	96.00	12.589	12.589	(0.779)	1036553	10.00	10.21
10 1,1-Dichloroethane	63.00	13.290	13.290	(0.822)	1960137	10.00	9.48
11 2,2-Dichloropropane	77.00	14.257	14.257	(0.882)	1274824	10.00	10.46(M)
12 cis-1,2-Dichloroethene	96.00	14.249	14.249	(0.882)	1045215	10.00	9.86
13 Bromochloromethane	128.00	14.644	14.644	(0.906)	507220	10.00	9.45
14 Chloroform	83.00	14.773	14.773	(0.914)	2096330	10.00	10.14
15 1,1,1-Trichloroethane	97.00	15.087	15.087	(0.934)	1858937	10.00	10.21
16 1,1-Dichloropropene	75.00	15.353	15.353	(0.950)	1716466	10.00	10.24
17 Carbon tetrachloride	117.00	15.385	15.385	(0.952)	1712738	10.00	10.46
18 Benzene	78.00	15.716	15.716	(0.973)	2760700	10.00	10.04
19 1,2-Dichloroethane	62.00	15.732	15.732	(0.974)	921798	10.00	9.67(M)
* 20 Fluorobenzene	95.95	16.183	16.183	(1.000)	313808	1.00	(M)
21 Trichloroethene	130.00	16.820	16.820	(1.041)	1350936	10.00	9.90
22 1,2-Dichloropropane	63.00	17.215	17.215	(1.065)	1007838	10.00	10.18
23 Dibromomethane	93.00	17.432	17.432	(1.079)	650285	10.00	9.30
24 Bromodichloromethane	83.00	17.698	17.698	(1.095)	1618969	10.00	10.36
25 cis-1,3-Dichloropropene	75.00	18.504	18.504	(1.145)	1191700	10.00	10.93
26 Toluene	92.00	19.165	19.165	(1.186)	1773505	10.00	10.09
27 trans-1,3-Dichloropropene	75.00	19.552	19.552	(1.210)	815541	10.00	11.06
28 1,1,2-Trichloroethane	97.00	19.939	19.939	(1.234)	520078	10.00	9.44
29 Tetrachloroethene	166.00	20.277	20.277	(1.255)	1715275	10.00	10.23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
30 1,3-Dichloropropane	76.00	20.277	20.277	(1.255)	874861	10.00	9.98
31 Dibromochloromethane	127.00	20.769	20.769	(1.285)	731595	10.00	10.09
32 1,2-Dibromoethane	107.00	21.019	21.019	(1.301)	766721	10.00	9.46
33 Chlorobenzene-d5	117.00	21.986	21.986	(1.000)	220400	1.00	(H)
34 Chlorobenzene	112.00	22.051	22.051	(1.365)	2161780	10.00	10.04
35 1,1,1,2-Tetrachloroethane	131.00	22.212	22.212	(1.000)	1082598	10.00	9.82
36 Ethylbenzene	106.00	22.268	22.268	(1.002)	1112938	10.00	9.82
37 m,p-Xylene	91.00	22.518	22.518	(1.013)	6124102	20.00	19.45
38 o-Xylene	91.00	23.397	23.397	(1.053)	2996611	10.00	9.67
39 Styrene	104.00	23.429	23.429	(1.054)	1993015	10.00	9.57
40 Bromoform	173.00	23.864	23.864	(1.074)	570618	10.00	9.27
41 Isopropylbenzene	105.00	24.235	24.235	(1.091)	4096156	10.00	9.70
42 p-Bromoflourobenzene	94.95	24.597	24.597	(1.107)	1778018	10.00	8.53
43 Bromobenzene	156.00	24.960	24.960	(1.123)	1078981	10.00	9.39
44 1,1,2,2-Tetrachloroethane	83.00	24.912	24.912	(1.121)	682370	10.00	8.81
45 1,2,3-Trichloropropane	110.00	25.025	25.025	(1.138)	152450	10.00	8.69(M)
46 n-Propylbenzene	91.00	25.194	25.194	(1.134)	5251447	10.00	9.56
47 2-Chlorotoluene	91.00	25.403	25.403	(1.143)	3325377	10.00	9.91(H)
48 1,3,5-Trimethylbenzene	105.00	25.605	25.605	(1.165)	3525135	10.00	8.51(M)
49 4-Chlorotoluene	91.00	25.661	25.661	(1.155)	3455862	10.00	9.56
50 tert-Butylbenzene	119.00	26.387	26.387	(1.188)	3552054	10.00	9.97
51 1,2,4-Trimethylbenzene	105.00	26.499	26.499	(1.193)	3488946	10.00	9.70
52 sec-Butylbenzene	105.00	26.919	26.919	(1.211)	5321467	10.00	9.65
53 1,3-Dichlorobenzene	146.00	27.193	27.193	(1.224)	2016226	10.00	9.22(H)
54 p-Isopropyltoluene	119.00	27.265	27.265	(1.240)	4063045	10.00	9.78(M)
55 1,4-Dichlorobenzene	146.00	27.402	27.402	(1.233)	1979006	10.00	9.18
56 1,2-Dichlorobenzene-d4	152.00	28.264	28.264	(1.272)	1062510	10.00	8.51
57 n-Butylbenzene	91.00	28.273	28.273	(1.272)	4375958	10.00	9.67
58 1,2-Dichlorobenzene	146.00	28.321	28.321	(1.275)	1682334	10.00	9.12
59 1,2-Dibromo-3-Chloropropane	75.00	30.344	30.344	(1.380)	115849	10.00	8.19(M)
60 1,2,4-Trichlorobenzene	180.00	33.003	33.003	(1.485)	1483834	10.00	8.90
61 Hexachlorobutadiene	225.00	33.689	33.689	(1.516)	1763787	10.00	9.21
62 Naphthalene	128.00	33.906	33.906	(1.526)	1204419	10.00	8.44
63 1,2,3-Trichlorobenzene	180.00	34.914	34.914	(1.588)	1185031	10.00	6.33(M)

QC Flag Legend

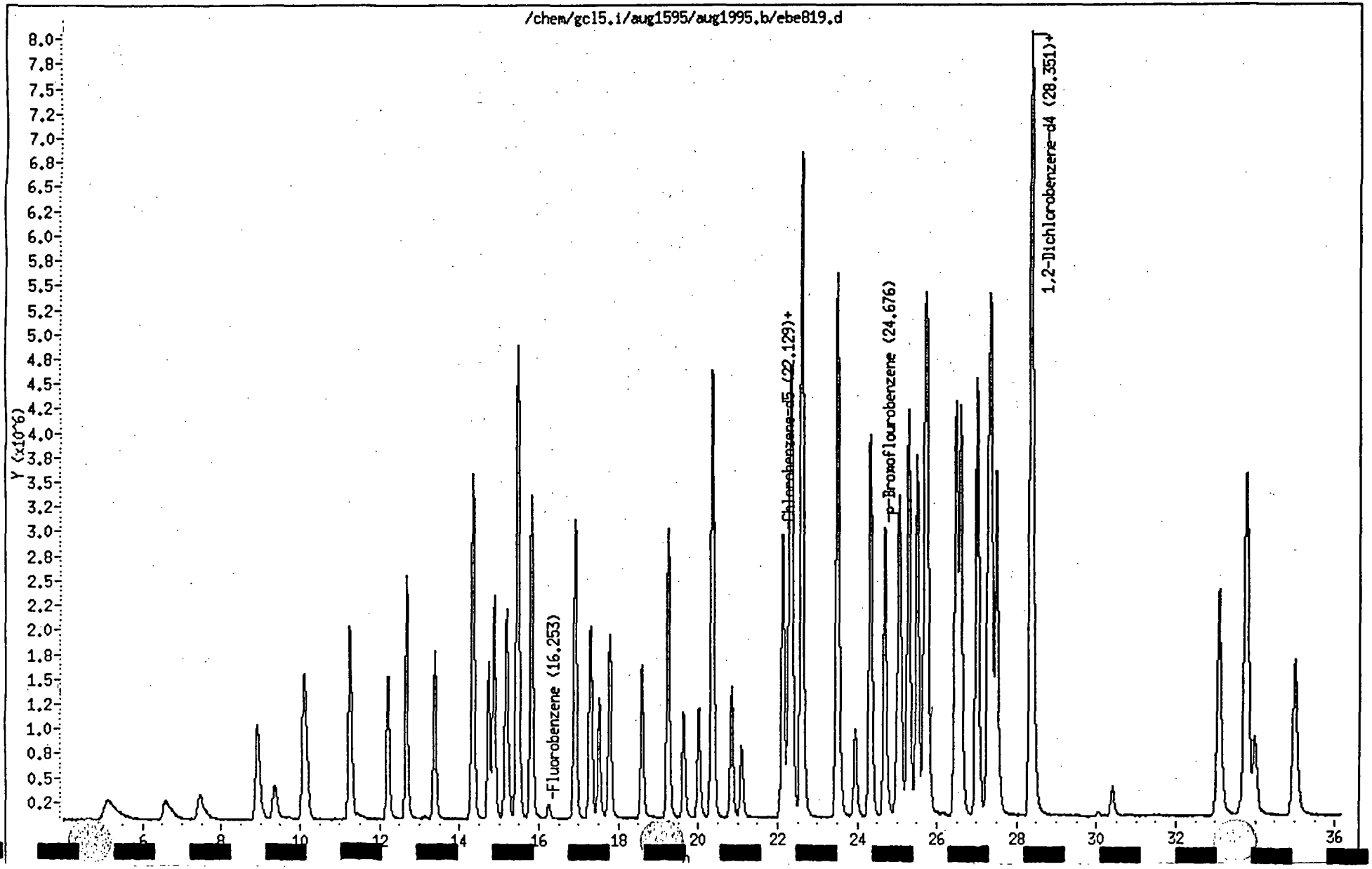
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/gc15.i/aug1595/aug1995.b/ebe819.d
Date : 19-AUG-1995 14:33
Client ID:
Sample Info: STD20 EAA819

Instrument: gc15.i

Operator:
Column diameter: 2.00

Column phase:



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug1995.b/ebe819.d
b Smp Id:
nj Date : 19-AUG-1995 14:33
erator : Inst ID: gcl5.i
p Info : STD20 EAA819
isc Info : GCL#5,DIL=1,25MLOFW+10ULIS+20ULSS+20UL606
mment :
thod : /chem/gcl5.i/aug1595/aug1995.b/524.m
eth Date : 22-Aug-1995 12:15 rileymg Quant Type: ISTD
al Date : 19-AUG-1995 13:48 Cal File: ebd819.d
s bottle: 8 Calibration Sample, Level: 3
l Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

						AMOUNTS	
mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.131	5.131	(0.316)	2542835	20.00	20.02(M)
2 Chloromethane	50.00	6.574	6.574	(0.404)	1569325	20.00	18.25(M)
3 Vinyl chloride	62.00	7.452	7.452	(0.459)	1765705	20.00	19.40(M)
4 Bromomethane	94.00	8.895	8.895	(0.547)	2738996	20.00	21.69
5 Chloroethane	64.00	9.330	9.330	(0.574)	1329566	20.00	20.62(M)
6 Trichlorofluoromethane	101.00	10.080	10.080	(0.620)	4396466	20.00	20.29
7 1,1-Dichloroethene	96.00	11.232	11.232	(0.691)	2172809	20.00	20.83
8 Methylene chloride	84.00	12.200	12.200	(0.751)	1711757	20.00	19.34
9 trans-1,2-Dichloroethene	96.00	12.659	12.659	(0.779)	2078235	20.00	20.81
10 1,1-Dichloroethane	63.00	13.368	13.368	(0.822)	4109278	20.00	20.19
11 2,2-Dichloropropane	77.00	14.327	14.327	(0.881)	2252748	20.00	18.79
12 cis-1,2-Dichloroethene	96.00	14.335	14.335	(0.882)	2119780	20.00	20.31
13 Bromochloromethane	128.00	14.730	14.730	(0.906)	1032896	20.00	19.55
14 Chloroform	83.00	14.867	14.867	(0.915)	4186592	20.00	20.58
15 1,1,1-Trichloroethane	97.00	15.182	15.182	(0.934)	3647124	20.00	20.36
16 1,1-Dichloropropene	75.00	15.439	15.439	(0.950)	3419443	20.00	20.74
17 Carbon tetrachloride	117.00	15.464	15.464	(0.951)	3523763	20.00	21.88
18 Benzene	78.00	15.794	15.794	(0.972)	5365830	20.00	19.82
19 1,2-Dichloroethane	62.00	15.810	15.810	(0.973)	1777832	20.00	18.96
20 Fluorobenzene	95.95	16.253	16.253	(1.000)	308789	1.00	
21 Trichloroethene	130.00	16.890	16.890	(1.039)	2724521	20.00	20.29
22 1,2-Dichloropropane	63.00	17.285	17.285	(1.063)	1996051	20.00	20.48
23 Dibromomethane	93.00	17.503	17.503	(1.077)	1295798	20.00	18.83
24 Bromodichloromethane	83.00	17.777	17.777	(1.094)	3288093	20.00	21.39
25 cis-1,3-Dichloropropene	75.00	18.583	18.583	(1.143)	2329765	20.00	21.72
Toluene	92.00	19.235	19.235	(1.183)	3471226	20.00	20.07
trans-1,3-Dichloropropene	75.00	19.630	19.630	(1.208)	1554387	20.00	21.43
28 1,1,2-Trichloroethane	97.00	20.009	20.009	(1.231)	1021469	20.00	18.85
29 Tetrachloroethene	166.00	20.348	20.348	(1.252)	3284921	20.00	19.92

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
30 1,3-Dichloropropane	76.00	20.348	20.348	(1.252)	1610993	20.00	18.68
31 Dibromochloromethane	127.00	20.839	20.839	(1.282)	1528475	20.00	21.42
32 1,2-Dibromoethane	107.00	21.097	21.097	(1.298)	1545228	20.00	19.37
33 Chlorobenzene-d5	117.00	22.056	22.056	(1.000)	191870	1.00	(M)
34 Chlorobenzene	112.00	22.121	22.121	(1.361)	4280685	20.00	20.21
35 1,1,1,2-Tetrachloroethane	131.00	22.290	22.290	(1.000)	2200458	20.00	22.94
36 Ethylbenzene	106.00	22.346	22.346	(1.002)	2201078	20.00	22.32
37 m,p-Xylene	91.00	22.596	22.596	(1.013)	12515925	40.00	45.67
38 o-Xylene	91.00	23.483	23.483	(1.053)	6154301	20.00	22.82
39 Styrene	104.00	23.515	23.515	(1.055)	4073100	20.00	22.47
40 Bromoform	173.00	23.950	23.950	(1.074)	1278880	20.00	23.86
41 Isopropylbenzene	105.00	24.321	24.321	(1.091)	8467494	20.00	23.03
42 p-Bromoflourobenzene	94.95	24.676	24.676	(1.107)	3620915	20.00	19.95
43 Bromobenzene	156.00	25.038	25.038	(1.123)	2265239	20.00	22.65
44 1,1,2,2-Tetrachloroethane	83.00	24.982	24.982	(1.120)	1476145	20.00	21.89
45 1,2,3-Trichloropropane	110.00	25.095	25.095	(1.138)	292510	20.00	19.16(M)
46 n-Propylbenzene	91.00	25.272	25.272	(1.133)	10913736	20.00	22.82
47 2-Chlorotoluene	91.00	25.490	25.490	(1.143)	6364628	20.00	21.79
48 1,3,5-Trimethylbenzene	105.00	25.683	25.683	(1.164)	8565869	20.00	23.76(M)
49 4-Chlorotoluene	91.00	25.740	25.740	(1.154)	7483717	20.00	23.78
tert-Butylbenzene	119.00	26.457	26.457	(1.187)	7326567	20.00	23.62
1 1,2,4-Trimethylbenzene	105.00	26.578	26.578	(1.192)	7150081	20.00	22.83
52 sec-Butylbenzene	105.00	26.989	26.989	(1.210)	11120335	20.00	23.16
53 1,3-Dichlorobenzene	146.00	27.271	27.271	(1.223)	4239615	20.00	22.27
54 p-Isopropyltoluene	119.00	27.335	27.335	(1.239)	8229400	20.00	22.76(M)
55 1,4-Dichlorobenzene	146.00	27.472	27.472	(1.232)	4252404	20.00	22.66
56 1,2-Dichlorobenzene-d4	152.00	28.343	28.343	(1.271)	2198602	20.00	20.22
57 n-Butylbenzene	91.00	28.335	28.335	(1.271)	9036554	20.00	22.94
58 1,2-Dichlorobenzene	146.00	28.383	28.383	(1.273)	3530014	20.00	21.99
59 1,2-Dibromo-3-Chloropropane	75.00	30.390	30.390	(1.378)	271811	20.00	22.06(M)
60 1,2,4-Trichlorobenzene	180.00	33.074	33.074	(1.483)	3084080	20.00	21.26
61 Hexachlorobutadiene	225.00	33.759	33.759	(1.514)	3604735	20.00	21.62
62 Naphthalene —	128.00	33.984	33.984	(1.524)	2640028	20.00	21.26
63 1,2,3-Trichlorobenzene	180.00	34.984	34.984	(1.586)	2464179	20.00	17.86(M)

)C Flag Legend

- Compound response manually integrated.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl5.i Injection Date: 21-AUG-1995 09:33
Lab File ID: eba821.d Init. Calibration Date(s): 08/19/95 08/19/95
Analysis Type: Init. Calibration Times: 13:04 15:36
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl5.i/aug1595/aug2195.b/524.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
1 Dichlorodifluoromethane	0.411	0.429	0.010	4.4	40.0	30% min 8/24/95
2 Chloromethane	0.278	0.313	0.010	12.3	40.0	
3 Vinyl chloride	0.295	0.305	0.010	3.4	40.0	
4 Bromomethane	0.409	0.408	0.010	0.3	40.0	
5 Chloroethane	0.209	0.237	0.010	13.6	40.0	
6 Trichlorofluoromethane	0.702	0.771	0.010	9.9	40.0	
7 1,1-Dichloroethene	0.338	0.387	0.010	14.5	40.0	
80 Acetone	++++	++++	0.010	++++	40.0	<-
8 Methylene chloride	0.287	0.269	0.010	6.1	40.0	
9 trans-1,2-Dichloroethene	0.323	0.348	0.010	7.7	40.0	
10 1,1-Dichloroethane	0.659	0.655	0.010	0.7	40.0	
11 2,2-Dichloropropane	0.388	0.498	0.010	28.3	40.0	
12 cis-1,2-Dichloroethene	0.338	0.341	0.010	0.8	40.0	
13 Bromochloromethane	0.171	0.156	0.010	8.8	40.0	
14 Chloroform	0.659	0.637	0.010	3.3	40.0	
15 1,1,1-Trichloroethane	0.580	0.644	0.010	11.1	40.0	
16 1,1-Dichloropropene	0.534	0.577	0.010	8.0	40.0	
17 Carbon tetrachloride	0.522	0.604	0.010	15.8	40.0	
18 Benzene	0.877	0.883	0.010	0.7	40.0	
19 1,2-Dichloroethane	0.304	0.246	0.010	19.1	40.0	
21 Trichloroethene	0.435	0.473	0.010	8.9	40.0	
22 1,2-Dichloropropane	0.316	0.308	0.010	2.4	40.0	
23 Dibromomethane	0.223	0.175	0.010	21.5	40.0	
24 Bromodichloromethane	0.498	0.464	0.010	6.8	40.0	
25 cis-1,3-Dichloropropene	0.347	0.348	0.010	0.1	40.0	
26 Toluene	0.560	0.606	0.010	8.2	40.0	
27 trans-1,3-Dichloropropene	0.235	0.226	0.010	3.9	40.0	
28 1,1,2-Trichloroethane	0.176	0.148	0.010	15.7	40.0	
29 Tetrachloroethene	0.534	0.598	0.010	12.0	40.0	
30 1,3-Dichloropropane	0.279	0.235	0.010	15.8	40.0	
31 Dibromochloromethane	0.231	0.215	0.010	7.1	40.0	
32 1,2-Dibromoethane	0.258	0.204	0.010	20.9	40.0	
34 Chlorobenzene	0.686	0.686	0.010	0.0	40.0	
35 1,1,1,2-Tetrachloroethane	0.500	0.476	0.010	4.7	40.0	
36 Ethylbenzene	0.514	0.525	0.010	2.1	40.0	
37 m,p-Xylene	1.428	1.466	0.010	2.6	40.0	
38 o-Xylene	1.406	1.406	0.010	0.0	40.0	
39 Styrene	0.945	0.885	0.010	6.4	40.0	
40 Bromoform	0.279	0.228	0.010	18.4	40.0	

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl5.i Injection Date: 21-AUG-1995 09:33
Lab File ID: eba821.d Init. Calibration Date(s): 08/19/95 08/19/95
Analysis Type: Init. Calibration Times: 13:04 15:36
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl5.i/aug1595/aug2195.b/524.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
	41 Isopropylbenzene	1.916	1.974	0.010	3.0	40.0	
$	42 p-Bromoflourobenzene	0.946	0.84 ~~0.084~~	0.010	~~-91.1~~	40.0	<- 11.27.0
	43 Bromobenzene	0.521	0.501	0.010	3.9	40.0	
	44 1,1,2,2-Tetrachloroethane	0.351	0.255	0.010	27.6	40.0	
	45 1,2,3-Trichloropropane	0.080	0.058	0.010	27.1	40.0	
	46 n-Propylbenzene	2.492	2.574	0.010	3.3	40.0	
	47 2-Chlorotoluene	1.522	1.574	0.010	3.4	40.0	
	48 1,3,5-Trimethylbenzene	1.878 ~~1.916~~	1.545	0.010	~~-19.4~~	40.0	17.77.0
	49 4-Chlorotoluene	1.640	1.617	0.010	1.5	40.0	
	50 tert-Butylbenzene	1.616	1.720	0.010	6.4	40.0	
	51 1,2,4-Trimethylbenzene	1.632	1.534	0.010	6.0	40.0	
	52 sec-Butylbenzene	2.502	2.499	0.010	0.1	40.0	
	53 1,3-Dichlorobenzene	0.992	0.946	0.010	4.6	40.0	
	54 p-Isopropyltoluene	1.885	2.016	0.010	7.0	40.0	
	55 1,4-Dichlorobenzene	0.978	0.921	0.010	5.9	40.0	
$	56 1,2-Dichlorobenzene-d4	0.567	0.45 ~~0.045~~	0.010	~~-92.0~~	40.0	<- 20.67.0
	57 n-Butylbenzene	2.053	2.106	0.010	2.6	40.0	
	58 1,2-Dichlorobenzene	0.837	0.741	0.010	11.5	40.0	
	59 1,2-Dibromo-3-Chloropropane	0.064	0.045	0.010	30.6	40.0	* > 30%
	60 1,2,4-Trichlorobenzene	0.756	0.623	0.010	17.6	40.0	
	61 Hexachlorobutadiene	0.869	0.949	0.010	9.2	40.0	
	62 Naphthalene	0.647	0.454	0.010	29.8	40.0	
	63 1,2,3-Trichlorobenzene	~~0.749~~	0.470	0.010	~~-37.2~~	40.0	20.57.0
		0.607					

(4a) 8/22/95

Mark narrative 8/24/95 SOP

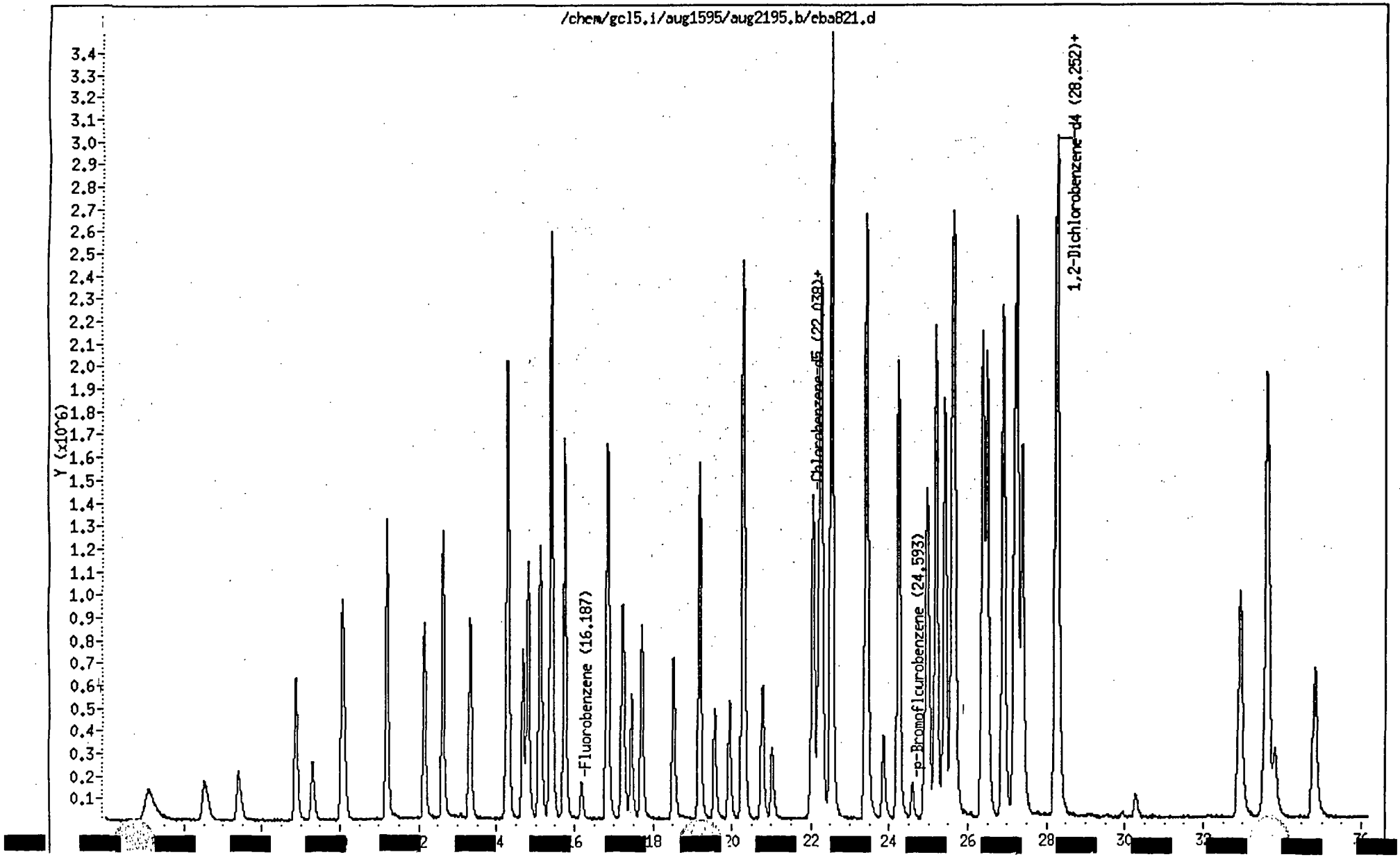
OK per method

Data File: /chem/gcl5.i/aug1595/aug2195.b/eba821.d
Date : 21-AUG-1995 09:33
Client ID:
Sample Info: STD10 TQA821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug2195.b/eba821.d
ab Smp Id:
nj Date : 21-AUG-1995 09:33
erator : Inst ID: gcl5.i
p Info : STD10 TQA821
isc Info : GCL#5,DIL=1.5MLOFW +10ULIS,1ULSS,10UL606STD1
mment :
thod : /chem/gcl5.i/aug1595/aug2195.b/524.m
eth Date : 22-Aug-1995 10:52 naranjoe Quant Type: ISTD
al Date : 21-AUG-1995 09:33 Cal File: eba821.d
s bottle: 2 Continuing Calibration Sample
l Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
) Dichlorodifluoromethane	85.00	5.113	5.113	(0.316)	1364568	10.00	10.44(M)
2 Chloromethane	50.00	6.540	6.540	(0.404)	993562	10.00	11.23(M)
3 Vinyl chloride	62.00	7.402	7.402	(0.457)	967883	10.00	10.34(M)
4 Bromomethane	94.00	8.861	8.861	(0.547)	1296140	10.00	9.97
5 Chloroethane	64.00	9.288	9.288	(0.574)	753507	10.00	11.36
6 Trichlorofluoromethane	101.00	10.062	10.062	(0.621)	2448601	10.00	10.98
7 1,1-Dichloroethene	96.00	11.190	11.190	(0.691)	1229511	10.00	11.45
8 Methylene chloride	84.00	12.141	12.141	(0.750)	855182	10.00	9.39
9 trans-1,2-Dichloroethene	96.00	12.617	12.617	(0.779)	1106169	10.00	10.76
10 1,1-Dichloroethane	63.00	13.318	13.318	(0.822)	2079462	10.00	9.93
11 2,2-Dichloropropane	77.00	14.277	14.277	(0.882)	1582334	10.00	12.83
12 cis-1,2-Dichloroethene	96.00	14.285	14.285	(0.882)	1082225	10.00	10.08
13 Bromochloromethane	128.00	14.672	14.672	(0.906)	495684	10.00	9.12
14 Chloroform	83.00	14.809	14.809	(0.914)	2024167	10.00	9.67
15 1,1,1-Trichloroethane	97.00	15.115	15.115	(0.933)	2046787	10.00	11.11
16 1,1-Dichloropropene	75.00	15.381	15.381	(0.950)	1832661	10.00	10.80
17 Carbon tetrachloride	117.00	15.405	15.405	(0.951)	1919979	10.00	11.58
18 Benzene	78.00	15.736	15.736	(0.972)	2804866	10.00	10.07
19 1,2-Dichloroethane	62.00	15.752	15.752	(0.973)	780280	10.00	8.09
20 Fluorobenzene	95.95	16.195	16.195	(1.000)	317716	1.00	(M)
21 Trichloroethene	130.00	16.824	16.824	(1.039)	1504384	10.00	10.89
22 1,2-Dichloropropane	63.00	17.211	17.211	(1.063)	978345	10.00	9.76
23 Dibromomethane	93.00	17.444	17.444	(1.077)	556217	10.00	7.85
24 Bromodichloromethane	83.00	17.710	17.710	(1.094)	1474952	10.00	9.32
25 cis-1,3-Dichloropropene	75.00	18.508	18.508	(1.143)	1104738	10.00	10.01(M)
Toluene	92.00	19.177	19.177	(1.184)	1925794	10.00	10.82
trans-1,3-Dichloropropene	75.00	19.548	19.548	(1.207)	717274	10.00	9.61
28 1,1,2-Trichloroethane	97.00	19.935	19.935	(1.231)	470228	10.00	8.43(M)
29 Tetrachloroethene	166.00	20.273	20.273	(1.252)	1901263	10.00	11.20

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
30 1,3-Dichloropropane	76.00	20.273	20.273	(1.252)	747181	10.00	8.42
31 Dibromochloromethane	127.00	20.765	20.765	(1.282)	682293	10.00	9.29
32 1,2-Dibromoethane	107.00	21.007	21.007	(1.297)	649367	10.00	7.91(M)
33 Chlorobenzene-d5	117.00	21.982	21.982	(1.000)	220055	1.00	
34 Chlorobenzene	112.00	22.046	22.046	(1.361)	2179666	10.00	10.00
35 1,1,1,2-Tetrachloroethane	131.00	22.216	22.216	(1.011)	1048194	10.00	9.53
36 Ethylbenzene	106.00	22.272	22.272	(1.013)	1154285	10.00	10.21
37 m,p-Xylene	91.00	22.514	22.514	(1.024)	6450900	20.00	20.52
38 o-Xylene	91.00	23.400	23.400	(1.065)	3094205	10.00	10.00
39 Styrene	104.00	23.425	23.425	(1.066)	1946406	10.00	9.36
40 Bromoform	173.00	23.860	23.860	(1.085)	501572	10.00	8.16(M)
41 Isopropylbenzene	105.00	24.230	24.230	(1.102)	4344548	10.00	10.30
42 p-Bromoflourobenzene	94.95	24.585	24.585	(1.118)	184812	~~10.00~~ 1.00	0.888(M)
43 Bromobenzene	156.00	24.956	24.956	(1.135)	1101987	10.00 ppb	9.61
44 1,1,2,2-Tetrachloroethane	83.00	24.899	24.899	(1.133)	560153	10.00 MK	7.24
45 1,2,3-Trichloropropane	110.00	25.012	25.012	(1.138)	127631	10.00 8/24/95	7.29(M)
46 n-Propylbenzene	91.00	25.182	25.182	(1.146)	5663440	10.00	10.33
47 2-Chlorotoluene	91.00	25.399	25.399	(1.155)	3463641	10.00	10.34
48 1,3,5-Trimethylbenzene	105.00	25.593	25.593	(1.164)	3399647	10.00	8.06(M)
49 4-Chlorotoluene	91.00	25.649	25.649	(1.167)	3557392	10.00	9.85
tert-Butylbenzene	119.00	26.374	26.374	(1.200)	3784368	10.00	10.64
1,2,4-Trimethylbenzene	105.00	26.487	26.487	(1.205)	3376041	10.00	9.40
52 sec-Butylbenzene	105.00	26.898	26.898	(1.224)	5499300	10.00	9.99
53 1,3-Dichlorobenzene	146.00	27.164	27.164	(1.236)	2082649	10.00	9.54
54 p-Isopropyltoluene	119.00	27.245	27.245	(1.239)	4435791	10.00	10.70(M)
55 1,4-Dichlorobenzene	146.00	27.382	27.382	(1.246)	2025699	10.00	9.41
56 1,2-Dichlorobenzene-d4	152.00	28.244	28.244	(1.285)	(99234)	~~10.00~~ 1.00 ppb	0.796(M)
57 n-Butylbenzene	91.00	28.236	28.236	(1.284)	4635409	10.00 MK	10.26
58 1,2-Dichlorobenzene	146.00	28.284	28.284	(1.287)	1629528	10.00 8/24/95	8.85
59 1,2-Dibromo-3-Chloropropane	75.00	30.251	30.251	(1.376)	98067	10.00	6.94(M)
60 1,2,4-Trichlorobenzene	180.00	32.919	32.919	(1.498)	1371309	10.00	8.24
61 Hexachlorobutadiene	225.00	33.604	33.604	(1.529)	2088695	10.00	10.92
62 Naphthalene	128.00	33.805	33.805	(1.538)	999899	10.00	7.02(M)
63 1,2,3-Trichlorobenzene	180.00	34.805	34.805	(1.583)	1034544	10.00	6.28(M)

C Flag Legend

M - Compound response manually integrated.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl5.i Injection Date: 21-AUG-1995 11:57
Lab File ID: ebb821.d Init. Calibration Date(s): 08/19/95 08/19/95
Analysis Type: Init. Calibration Times: 13:04 15:36
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl5.i/aug1595/aug2195.b/524.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
1 Dichlorodifluoromethane	0.411	++++	0.010	++++	40.0	<-
2 Chloromethane	0.278	++++	0.010	++++	40.0	<-
3 Vinyl chloride	0.295	++++	0.010	++++	40.0	<-
4 Bromomethane	0.409	++++	0.010	++++	40.0	<-
5 Chloroethane	0.209	++++	0.010	++++	40.0	<-
6 Trichlorofluoromethane	0.702	++++	0.010	++++	40.0	<-
7 1,1-Dichloroethene	0.338	++++	0.010	++++	40.0	<-
80 Acetone	++++	0.030	0.010	++++	40.0	<-
8 Methylene chloride	0.287	++++	0.010	++++	40.0	<-
9 trans-1,2-Dichloroethene	0.323	++++	0.010	++++	40.0	<-
10 1,1-Dichloroethane	0.659	++++	0.010	++++	40.0	<-
11 2,2-Dichloropropane	0.388	++++	0.010	++++	40.0	<-
12 cis-1,2-Dichloroethene	0.338	++++	0.010	++++	40.0	<-
13 Bromochloromethane	0.171	++++	0.010	++++	40.0	<-
14 Chloroform	0.659	++++	0.010	++++	40.0	<-
15 1,1,1-Trichloroethane	0.580	++++	0.010	++++	40.0	<-
16 1,1-Dichloropropene	0.534	++++	0.010	++++	40.0	<-
17 Carbon tetrachloride	0.522	++++	0.010	++++	40.0	<-
18 Benzene	0.877	++++	0.010	++++	40.0	<-
19 1,2-Dichloroethane	0.304	++++	0.010	++++	40.0	<-
21 Trichloroethene	0.435	++++	0.010	++++	40.0	<-
22 1,2-Dichloropropane	0.316	++++	0.010	++++	40.0	<-
23 Dibromomethane	0.223	++++	0.010	++++	40.0	<-
24 Bromodichloromethane	0.498	++++	0.010	++++	40.0	<-
25 cis-1,3-Dichloropropene	0.347	++++	0.010	++++	40.0	<-
26 Toluene	0.560	++++	0.010	++++	40.0	<-
27 trans-1,3-Dichloropropene	0.235	++++	0.010	++++	40.0	<-
28 1,1,2-Trichloroethane	0.176	++++	0.010	++++	40.0	<-
29 Tetrachloroethene	0.534	++++	0.010	++++	40.0	<-
30 1,3-Dichloropropane	0.279	++++	0.010	++++	40.0	<-
31 Dibromochloromethane	0.231	++++	0.010	++++	40.0	<-
32 1,2-Dibromoethane	0.258	++++	0.010	++++	40.0	<-
34 Chlorobenzene	0.686	++++	0.010	++++	40.0	<-
35 1,1,1,2-Tetrachloroethane	0.500	++++	0.010	++++	40.0	<-
36 Ethylbenzene	0.514	++++	0.010	++++	40.0	<-
37 m,p-Xylene	1.428	++++	0.010	++++	40.0	<-
38 o-Xylene	1.406	++++	0.010	++++	40.0	<-
39 Styrene	0.945	++++	0.010	++++	40.0	<-
40 Bromoform	0.279	++++	0.010	++++	40.0	<-

symmetrical for acetone 8/24/95

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

nstrument ID: gc15.i Injection Date: 21-AUG-1995 11:57
b File ID: ebb821.d Init. Calibration Date(s): 08/19/95 08/19/95
nalysis Type: Init. Calibration Times: 13:04 15:36
ab Sample ID: Quant Type: ISTD
thod File: /chem/gc15.i/aug1595/aug2195.b/524.m

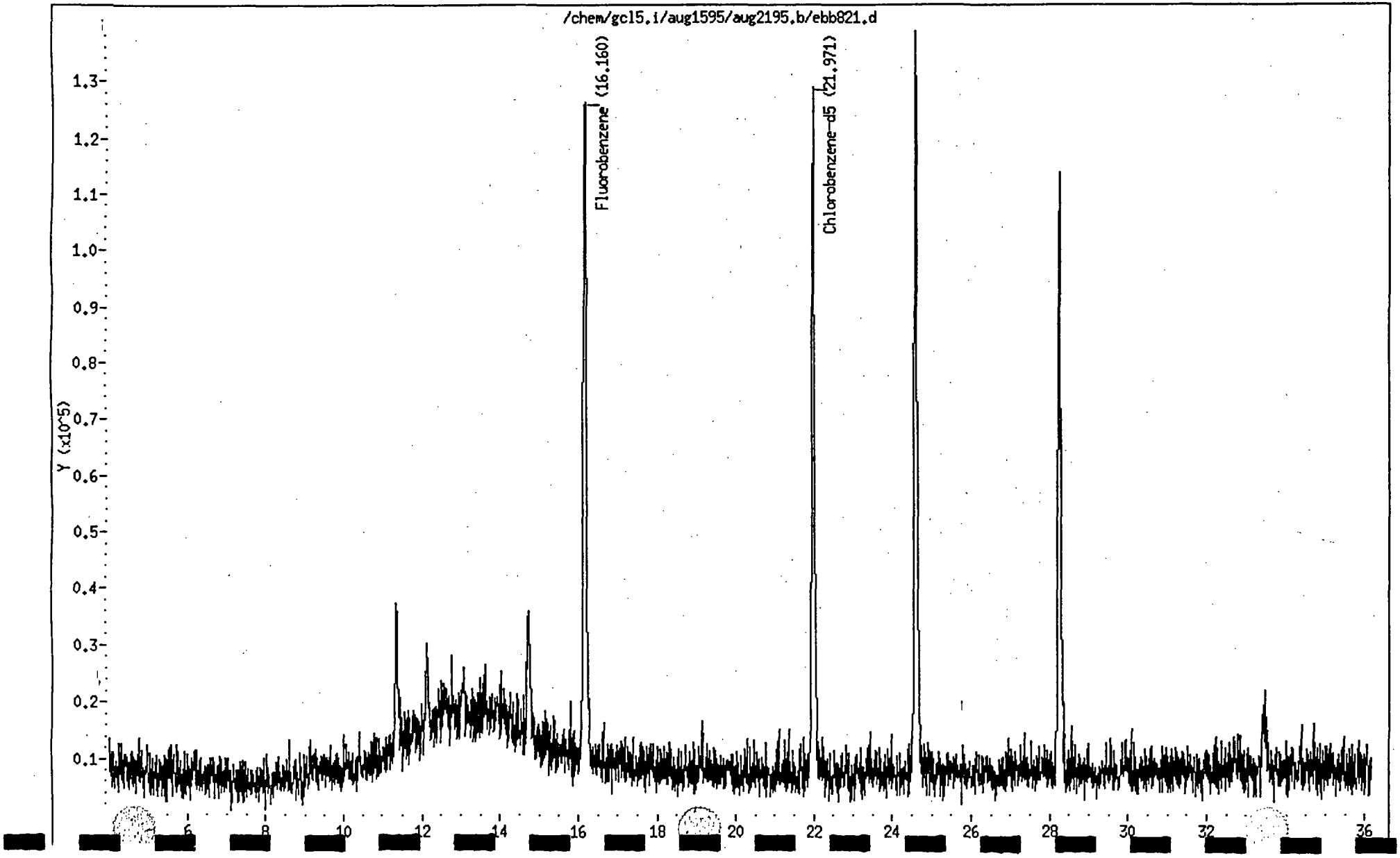
	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
	41 Isopropylbenzene	1.916	++++	0.010	++++	40.0	<-
$	42 p-Bromoflourobenzene	0.946	++++	0.010	++++	40.0	<-
	43 Bromobenzene	0.521	++++	0.010	++++	40.0	<-
	44 1,1,2,2-Tetrachloroethane	0.351	++++	0.010	++++	40.0	<-
	45 1,2,3-Trichloropropane	0.080	++++	0.010	++++	40.0	<-
	46 n-Propylbenzene	2.492	++++	0.010	++++	40.0	<-
	47 2-Chlorotoluene	1.522	++++	0.010	++++	40.0	<-
	48 1,3,5-Trimethylbenzene	1.916	++++	0.010	++++	40.0	<-
	49 4-Chlorotoluene	1.640	++++	0.010	++++	40.0	<-
	50 tert-Butylbenzene	1.616	++++	0.010	++++	40.0	<-
	51 1,2,4-Trimethylbenzene	1.632	++++	0.010	++++	40.0	<-
	52 sec-Butylbenzene	2.502	++++	0.010	++++	40.0	<-
	53 1,3-Dichlorobenzene	0.992	++++	0.010	++++	40.0	<-
	54 p-Isopropyltoluene	1.635	++++	0.010	++++	40.0	<-
	55 1,4-Dichlorobenzene	0.978	++++	0.010	++++	40.0	<-
$	56 1,2-Dichlorobenzene-d4	0.567	++++	0.010	++++	40.0	<-
	57 n-Butylbenzene	2.053	++++	0.010	++++	40.0	<-
	58 1,2-Dichlorobenzene	0.837	++++	0.010	++++	40.0	<-
	59 1,2-Dibromo-3-Chloropropane	0.064	++++	0.010	++++	40.0	<-
	60 1,2,4-Trichlorobenzene	0.756	++++	0.010	++++	40.0	<-
	61 Hexachlorobutadiene	0.869	++++	0.010	++++	40.0	<-
	62 Naphthalene	0.647	++++	0.010	++++	40.0	<-
	63 1,2,3-Trichlorobenzene	0.749	++++	0.010	++++	40.0	<-

Data File: /chem/gcl5.i/aug1595/aug2195.b/ebb821.d
Date : 21-AUG-1995 11:57
Client ID:
Sample Info: ACETONE STD EAA821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ata file : /chem/gcl5.i/aug1595/aug2195.b/ebb821.d
ab Smp Id:
aj Date : 21-AUG-1995 11:57
perator : Inst ID: gcl5.i
mp Info : ACETONE STD EAA821
isc Info : GCL#5,DIL=1,5MLOFW+2.5UL611ACETONE STD EAA82
mment :
ethod : /chem/gcl5.i/aug1595/aug2195.b/524.m
eth Date : 21-Aug-1995 12:35 naranjoe Quant Type: ISTD
l Date : 21-AUG-1995 11:57 Cal File: ebb821.d
s bottle: 1 Continuing Calibration Sample
il Factor: 1.000
tegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
Acetone	43.00	11.332	11.332	(0.701)	94248	10.00		(M)
20 Fluorobenzene	95.95	16.160	16.160	(1.000)	309370	1.00		(M)
33 Chlorobenzene-d5	117.00	21.963	21.963	(1.000)	186018	1.00		(M)

Flag Legend

- Compound response manually integrated.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl5.i Injection Date: 21-AUG-1995 21:55
Lab File ID: ebc821.d Init. Calibration Date(s): 08/19/95 08/19/95
Analysis Type: Init. Calibration Times: 13:04 15:36
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl5.i/aug1595/aug2195a.b/524.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
1 Dichlorodifluoromethane	0.411	0.435	0.010	5.8	40.0	
2 Chloromethane	0.278	0.290	0.010	4.3	40.0	
3 Vinyl chloride	0.295	0.291	0.010	1.1	40.0	
4 Bromomethane	0.409	0.462	0.010	13.1	40.0	
5 Chloroethane	0.209	0.238	0.010	13.8	40.0	
6 Trichlorofluoromethane	0.702	0.817	0.010	16.5	40.0	
7 1,1-Dichloroethene	0.338	0.387	0.010	14.5	40.0	
80 Acetone	++++	0.074	0.010	++++	40.0	<-
8 Methylene chloride	0.287	0.291	0.010	1.4	40.0	
9 trans-1,2-Dichloroethene	0.323	0.372	0.010	15.1	40.0	
10 1,1-Dichloroethane	0.659	0.656	0.010	0.4	40.0	
11 2,2-Dichloropropane	0.388	0.498	0.010	28.4	40.0	
12 cis-1,2-Dichloroethene	0.338	0.359	0.010	6.3	40.0	
13 Bromochloromethane	0.171	0.194	0.010	13.2	40.0	
14 Chloroform	0.659	0.722	0.010	9.7	40.0	
15 1,1,1-Trichloroethane	0.580	0.690	0.010	18.9	40.0	
16 1,1-Dichloropropene	0.534	0.573	0.010	7.4	40.0	
17 Carbon tetrachloride	0.522	0.665	0.010	27.6	40.0	
18 Benzene	0.877	0.875	0.010	0.2	40.0	
19 1,2-Dichloroethane	0.304	0.346	0.010	13.9	40.0	
21 Trichloroethene	0.435	0.468	0.010	7.6	40.0	
22 1,2-Dichloropropane	0.316	0.329	0.010	4.2	40.0	
23 Dibromomethane	0.223	0.241	0.010	8.2	40.0	
24 Bromodichloromethane	0.498	0.555	0.010	11.4	40.0	
25 cis-1,3-Dichloropropene	0.347	0.397	0.010	14.4	40.0	
26 Toluene	0.560	0.583	0.010	4.2	40.0	
27 trans-1,3-Dichloropropene	0.235	0.290	0.010	23.4	40.0	
28 1,1,2-Trichloroethane	0.176	0.182	0.010	3.6	40.0	
29 Tetrachloroethene	0.534	0.606	0.010	13.5	40.0	
30 1,3-Dichloropropane	0.279	0.292	0.010	4.5	40.0	
31 Dibromochloromethane	0.231	0.283	0.010	22.6	40.0	
32 1,2-Dibromoethane	0.258	0.279	0.010	8.0	40.0	
34 Chlorobenzene	0.686	0.769	0.010	12.2	40.0	
35 1,1,1,2-Tetrachloroethane	0.500	0.560	0.010	12.0	40.0	
36 Ethylbenzene	0.514	0.472	0.010	8.2	40.0	
37 m,p-Xylene	1.428	1.354	0.010	5.2	40.0	
38 o-Xylene	1.406	1.407	0.010	0.1	40.0	
39 Styrene	0.945	0.954	0.010	1.0	40.0	
40 Bromoform	0.279	0.313	0.010	12.0	40.0	

QC < 30% mc 8/24/95

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

:nstrument ID: gcl5.i Injection Date: 21-AUG-1995 21:55
ab File ID: ebc821.d Init. Calibration Date(s): 08/19/95 08/19/95
alysis Type: Init. Calibration Times: 13:04 15:36
ab Sample ID: Quant Type: ISTD
lethod File: /chem/gcl5.i/aug1595/aug2195a.b/524.m

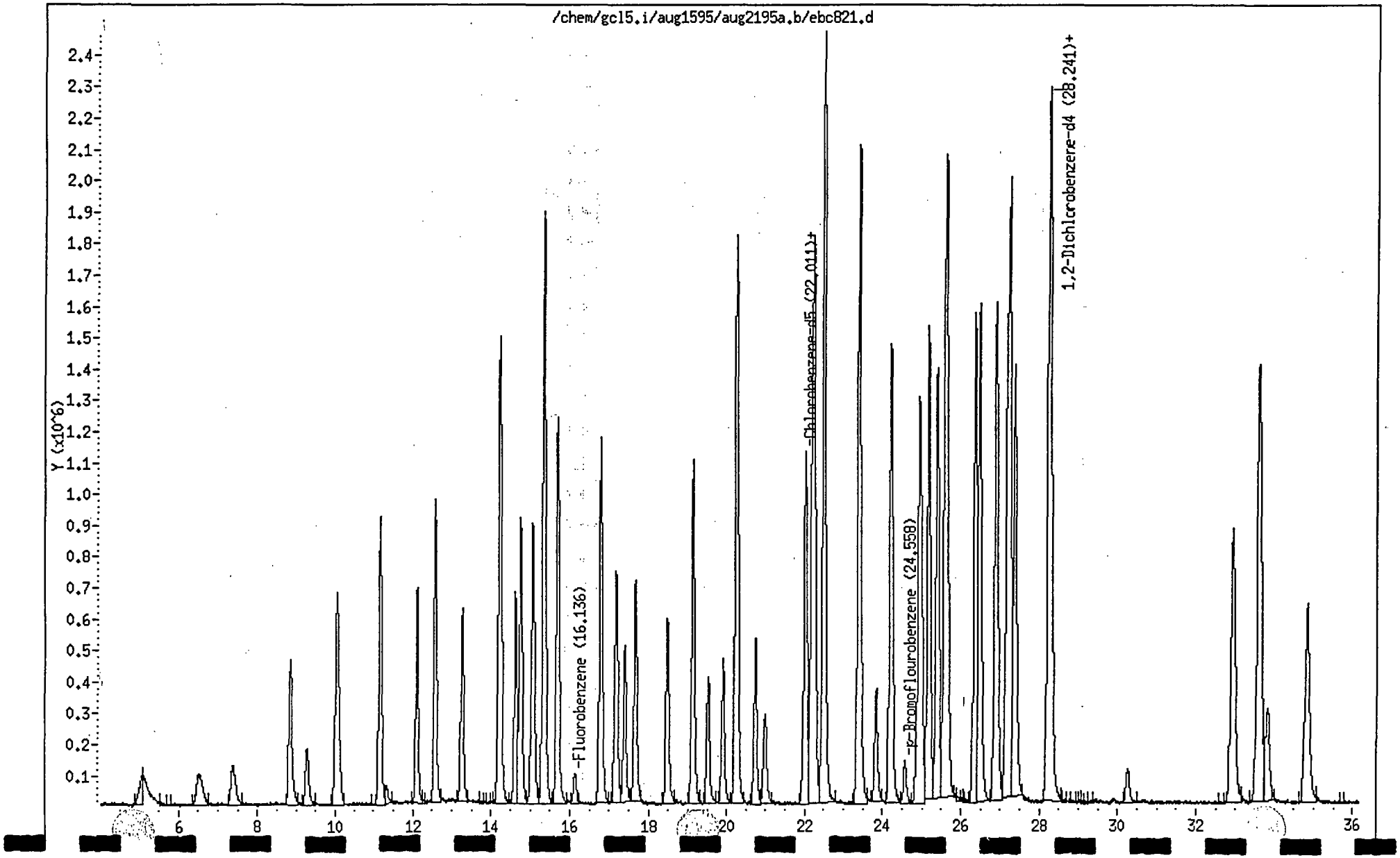
	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
	41 Isopropylbenzene	1.916	1.954	0.010	2.0	40.0	
$	42 p-Bromoflourobenzene	0.946	0.96 ~~0.896~~	0.010	~~89.9~~	40.0	<- 1.57.D
	43 Bromobenzene	0.521	0.555	0.010	6.5	40.0	
	44 1,1,2,2-Tetrachloroethane	0.351	0.361	0.010	2.6	40.0	
	45 1,2,3-Trichloropropane	0.080	0.083	0.010	4.7	40.0	
	46 n-Propylbenzene	2.492	2.539	0.010	1.9	40.0	
	47 2-Chlorotoluene	1.522	1.555	0.010	2.2	40.0	
	48 1,3,5-Trimethylbenzene	1.879	1.658	0.010	11.8	40.0	
	49 4-Chlorotoluene	1.640	1.589	0.010	3.1	40.0	
	50 tert-Butylbenzene	1.616	1.675	0.010	3.6	40.0	
	51 1,2,4-Trimethylbenzene	1.632	1.613	0.010	1.2	40.0	
	52 sec-Butylbenzene	2.502	2.355	0.010	5.9	40.0	
	53 1,3-Dichlorobenzene	0.992	1.057	0.010	6.5	40.0	
	54 p-Isopropyltoluene	1.885	1.953	0.010	3.6	40.0	
	55 1,4-Dichlorobenzene	0.978	1.082	0.010	10.7	40.0	
$	56 1,2-Dichlorobenzene-d4	0.567	0.61 ~~0.061~~	0.010	~~89.3~~	40.0	<- 7.67.D
	57 n-Butylbenzene	2.053	1.916	0.010	6.7	40.0	
	58 1,2-Dichlorobenzene	0.837	0.870	0.010	4.0	40.0	
	59 1,2-Dibromo-3-Chloropropane	0.064	0.066	0.010	2.2	40.0	
	60 1,2,4-Trichlorobenzene	0.756	0.744	0.010	1.6	40.0	
	61 Hexachlorobutadiene	0.869	0.893	0.010	2.8	40.0	
	62 Naphthalene	0.647	0.611	0.010	5.6	40.0	
	63 1,2,3-Trichlorobenzene	0.608	0.606	0.010	0.4	40.0	

(A) 8/23/95

Data File: /chem/gcl5.i/aug1595/aug2195a.b/ebc821.d
Date : 21-AUG-1995 21:55
Client ID:
Sample Info: STD10+ACE EAB821

Instrument: gcl5.i

Operator:
Column phase:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/ebc821.d
Lab Smp Id:
Inj Date : 21-AUG-1995 21:55
Operator : Inst ID: gcl5.i
Smp Info : STD10+ACE EAB821
Misc Info : GCL#5,DIL=1, 25MLOFW +10ULIS,606,1ULSS2.5UL6
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m
Meth Date : 22-Aug-1995 15:06 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.094	5.094	(0.000)	970500	10.00	10.58 (M)
2 Chloromethane	50.00	6.521	6.521	(0.000)	647782	10.00	10.43 (M)
3 Vinyl chloride	62.00	7.391	7.391	(0.000)	650001	10.00	9.89 (M)
4 Bromomethane	94.00	8.842	8.842	(0.000)	1031222	10.00	11.31 (M)
5 Chloroethane	64.00	9.269	9.269	(0.000)	530183	10.00	11.38 (M)
6 Trichlorofluoromethane	101.00	10.026	10.026	(0.000)	1822212	10.00	11.65 (M)
7 1,1-Dichloroethene	96.00	11.163	11.163	(0.000)	862527	10.00	11.45 (M)
80 Acetone	43.00	11.324	11.324	(0.000)	164823	10.00	(M)
8 Methylene chloride	84.00	12.098	12.098	(0.000)	648408	10.00	10.14 (M)
9 trans-1,2-Dichloroethene	96.00	12.565	12.565	(0.000)	830330	10.00	11.51 (M)
10 1,1-Dichloroethane	63.00	13.266	13.266	(0.000)	1463831	10.00	9.96 (M)
11 2,2-Dichloropropane	77.00	14.209	14.209	(0.000)	1111111	10.00	12.84 (M)
12 cis-1,2-Dichloroethene	96.00	14.225	14.225	(0.000)	800790	10.00	10.63 (M)
13 Bromochloromethane	128.00	14.628	14.628	(0.000)	431704	10.00	11.32 (M)
14 Chloroform	83.00	14.757	14.757	(0.000)	1611124	10.00	10.97 (M)
15 1,1,1-Trichloroethane	97.00	15.072	15.072	(0.000)	1537757	10.00	11.89 (M)
16 1,1-Dichloropropene	75.00	15.322	15.322	(0.000)	1278662	10.00	10.74 (M)
17 Carbon tetrachloride	117.00	15.346	15.346	(0.000)	1483756	10.00	12.76 (M)
18 Benzene	78.00	15.684	15.684	(0.000)	1950677	10.00	9.98 (M)
19 1,2-Dichloroethane	62.00	15.708	15.708	(0.000)	771333	10.00	11.39 (M)
20 Fluorobenzene	95.95	16.136	16.136	(1.000)	222996	1.00	(M)
21 Trichloroethene	130.00	16.788	16.788	(1.040)	1043062	10.00	10.76 (M)
22 1,2-Dichloropropane	63.00	17.175	17.175	(1.064)	733450	10.00	10.42 (M)
23 Dibromomethane	93.00	17.401	17.401	(1.078)	537643	10.00	10.82 (M)
24 Bromodichloromethane	83.00	17.659	17.659	(1.094)	1237053	10.00	11.14 (M)
cis-1,3-Dichloropropene	75.00	18.473	18.473	(1.145)	886109	10.00	11.44 (M)
26 Toluene	92.00	19.134	19.134	(1.186)	1300865	10.00	10.42 (M)
27 trans-1,3-Dichloropropene	75.00	19.521	19.521	(1.210)	646257	10.00	12.34 (M)
28 1,1,2-Trichloroethane	97.00	19.899	19.899	(1.233)	405665	10.00	10.36 (M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
29 Tetrachloroethene	166.00	20.238	20.238	(1.254)	1352376	10.00	11.35 (M)
30 1,3-Dichloropropane	76.00	20.246	20.246	(1.255)	650992	10.00	10.45 (M)
31 Dibromochloromethane	127.00	20.729	20.729	(1.285)	631833	10.00	12.26 (M)
32 1,2-Dibromoethane	107.00	20.979	20.979	(1.300)	622308	10.00	10.80 (M)
33 Chlorobenzene-d5	117.00	21.946	21.946	(1.000)	163055	1.00	(M)
34 Chlorobenzene	112.00	22.011	22.011	(1.364)	1715820	10.00	11.22 (M)
35 1,1,1,2-Tetrachloroethane	131.00	22.172	22.172	(1.000)	912752	10.00	11.20 (M)
36 Ethylbenzene	106.00	22.229	22.229	(1.003)	769252	10.00	9.18 (M)
37 m,p-Xylene	91.00	22.486	22.486	(1.014)	4414597	20.00	18.96 (M)
38 o-Xylene	91.00	23.381	23.381	(1.055)	2294037	10.00	10.01 (M)
39 Styrene	104.00	23.397	23.397	(1.055)	1555475	10.00	10.10 (M)
40 Bromoform	173.00	23.832	23.832	(1.075)	510078	10.00	11.20 (M)
41 Isopropylbenzene	105.00	24.203	24.203	(1.092)	3185991	10.00	10.20 (M)
42 p-Bromoflourobenzene	94.95	24.558	24.558	(1.108)	156077	~~10.00~~ 1.00 mic 8/24/95	1.01 (M)
43 Bromobenzene	156.00	24.928	24.928	(1.124)	905554	10.00	10.65 (M)
44 1,1,2,2-Tetrachloroethane	83.00	24.872	24.872	(1.122)	587968	10.00	10.26 (M)
45 1,2,3-Trichloropropane	110.00	24.985	24.985	(1.127)	135872	10.00	10.47 (M)
46 n-Propylbenzene	91.00	25.162	25.162	(1.135)	4139555	10.00	10.19 (M)
47 2-Chlorotoluene	91.00	25.372	25.372	(1.144)	2535830	10.00	10.22 (M)
48 1,3,5-Trimethylbenzene	105.00	25.581	25.581	(1.154)	2703275	10.00	8.82 (M)
4-Chlorotoluene	91.00	25.622	25.622	(1.156)	2591159	10.00	9.69 (M)
tert-Butylbenzene	119.00	26.355	26.355	(1.189)	2730673	10.00	10.36 (M)
51 1,2,4-Trimethylbenzene	105.00	26.460	26.460	(1.193)	2630732	10.00	9.88 (M)
52 sec-Butylbenzene	105.00	26.879	26.879	(1.212)	3840648	10.00	9.41 (M)
53 1,3-Dichlorobenzene	146.00	27.153	27.153	(1.225)	1723373	10.00	10.65 (M)
54 p-Isopropyltoluene	119.00	27.225	27.225	(1.241)	3184587	10.00	10.36 (M)
55 1,4-Dichlorobenzene	146.00	27.362	27.362	(1.234)	1764824	10.00	11.07 (M)
56 1,2-Dichlorobenzene-d4	152.00	28.217	28.217	(1.273)	98755	~~10.00~~ 1.00 mic 8/24/95	1.07 (M)
57 n-Butylbenzene	91.00	28.225	28.225	(1.273)	3123551	10.00	10.33 (M)
58 1,2-Dichlorobenzene	146.00	28.265	28.265	(1.275)	1419166	10.00	10.40 (M)
59 1,2-Dibromo-3-Chloropropane	75.00	30.264	30.264	(1.365)	107047	10.00	10.22 (M)
60 1,2,4-Trichlorobenzene	180.00	32.915	32.915	(1.485)	1213403	10.00	9.84 (M)
61 Hexachlorobutadiene	225.00	33.601	33.601	(1.515)	1456606	10.00	10.28 (M)
62 Naphthalene	128.00	33.818	33.818	(1.525)	996374	10.00	9.44 (M)
63 1,2,3-Trichlorobenzene	180.00	34.818	34.818	(1.586)	987308	10.00	9.96 (M)

Flag Legend

M - Compound response manually integrated.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl5.i Injection Date: 22-AUG-1995 18:06
Lab File ID: eba822.d Init. Calibration Date(s): 08/19/95 08/19/95
Analysis Type: Init. Calibration Times: 13:04 15:36
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl5.i/aug1595/aug2295.b/524.m

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
1 Dichlorodifluoromethane	0.411	0.441	0.010	7.2	40.0	
2 Chloromethane	0.278	0.275	0.010	1.3	40.0	
3 Vinyl chloride	0.295	0.290	0.010	1.7	40.0	
4 Bromomethane	0.409	0.465	0.010	13.6	40.0	
5 Chloroethane	0.209	0.239	0.010	14.3	40.0	
6 Trichlorofluoromethane	0.702	0.856	0.010	22.0	40.0	
7 1,1-Dichloroethene	0.338	0.414	0.010	22.6	40.0	
80 Acetone	++++	0.060	0.010	++++	40.0	<-
8 Methylene chloride	0.287	0.320	0.010	11.7	40.0	
9 trans-1,2-Dichloroethene	0.323	0.395	0.010	22.1	40.0	
10 1,1-Dichloroethane	0.659	0.715	0.010	8.5	40.0	
11 2,2-Dichloropropane	0.388	0.501	0.010	29.0	40.0	
12 cis-1,2-Dichloroethene	0.338	0.375	0.010	11.0	40.0	
13 Bromochloromethane	0.171	0.197	0.010	14.9	40.0	
14 Chloroform	0.659	0.727	0.010	10.3	40.0	
15 1,1,1-Trichloroethane	0.580	0.711	0.010	22.6	40.0	
16 1,1-Dichloropropene	0.534	0.596	0.010	11.5	40.0	
17 Carbon tetrachloride	0.522	0.666	0.010	27.6	40.0	
18 Benzene	0.877	0.924	0.010	5.4	40.0	
19 1,2-Dichloroethane	0.304	0.331	0.010	8.9	40.0	
21 Trichloroethene	0.435	0.480	0.010	10.4	40.0	
22 1,2-Dichloropropane	0.316	0.323	0.010	2.4	40.0	
23 Dibromomethane	0.223	0.231	0.010	3.7	40.0	
24 Bromodichloromethane	0.498	0.548	0.010	10.0	40.0	
25 cis-1,3-Dichloropropene	0.347	0.389	0.010	12.1	40.0	
26 Toluene	0.560	0.583	0.010	4.1	40.0	
27 trans-1,3-Dichloropropene	0.235	0.265	0.010	12.7	40.0	
28 1,1,2-Trichloroethane	0.176	0.185	0.010	5.4	40.0	
29 Tetrachloroethene	0.534	0.624	0.010	16.9	40.0	
30 1,3-Dichloropropane	0.279	0.289	0.010	3.5	40.0	
31 Dibromochloromethane	0.231	0.266	0.010	15.1	40.0	
32 1,2-Dibromoethane	0.258	0.270	0.010	4.6	40.0	
34 Chlorobenzene	0.686	0.764	0.010	11.4	40.0	
35 1,1,1,2-Tetrachloroethane	0.500	0.572	0.010	14.5	40.0	
36 Ethylbenzene	0.514	0.547	0.010	6.4	40.0	
37 m,p-Xylene	1.428	1.560	0.010	9.2	40.0	
38 o-Xylene	1.406	1.532	0.010	9.0	40.0	
39 Styrene	0.945	0.982	0.010	3.9	40.0	
40 Bromoform	0.279	0.318	0.010	13.7	40.0	

94 < 30% mlc 8/24/95

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

nstrument ID: gcl5.i Injection Date: 22-AUG-1995 18:06
b File ID: eba822.d Init. Calibration Date(s): 08/19/95 08/19/95
alysis Type: Init. Calibration Times: 13:04 15:36
ab Sample ID: Quant Type: ISTD
thod File: /chem/gcl5.i/aug1595/aug2295.b/524.m

	COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D	
	41 Isopropylbenzene	1.916	2.119	0.010	10.6	40.0	
$	42 p-Bromoflourobenzene	0.946	0.91 ~~0.091~~	0.010	~~90.4~~	40.0	<- 3.87.0
	43 Bromobenzene	0.521	0.608	0.010	16.7	40.0	
	44 1,1,2,2-Tetrachloroethane	0.351	0.358	0.010	1.8	40.0	
	45 1,2,3-Trichloropropane	0.080	0.086	0.010	7.8	40.0	
	46 n-Propylbenzene	2.492	2.728	0.010	9.5	40.0	
	47 2-Chlorotoluene	1.522	1.690	0.010	11.1	40.0	
	48 1,3,5-Trimethylbenzene	1.879	1.836	0.010	2.3	40.0	
	49 4-Chlorotoluene	1.640	1.801	0.010	9.8	40.0	
	50 tert-Butylbenzene	1.616	1.913	0.010	18.3	40.0	
	51 1,2,4-Trimethylbenzene	1.632	1.754	0.010	7.5	40.0	
	52 sec-Butylbenzene	2.502	2.720	0.010	8.7	40.0	
	53 1,3-Dichlorobenzene	0.992	1.131	0.010	14.0	40.0	
	54 p-Isopropyltoluene	1.885	2.201	0.010	16.8	40.0	
	55 1,4-Dichlorobenzene	0.978	0.945	0.010	3.3	40.0	
$	56 1,2-Dichlorobenzene-d4	0.567	0.66 ~~0.066~~	0.010	~~88.3~~	40.0	<- 14.07.0
	57 n-Butylbenzene	2.053	2.291	0.010	11.6	40.0	
	58 1,2-Dichlorobenzene	0.837	0.977	0.010	16.8	40.0	
	59 1,2-Dibromo-3-Chloropropane	0.064	0.069	0.010	7.7	40.0	
	60 1,2,4-Trichlorobenzene	0.756	0.815	0.010	7.9	40.0	
	61 Hexachlorobutadiene	0.869	1.104	0.010	27.1	40.0	
	62 Naphthalene	0.647	0.623	0.010	3.8	40.0	
	63 1,2,3-Trichlorobenzene	0.608	0.648	0.010	6.6	40.0	

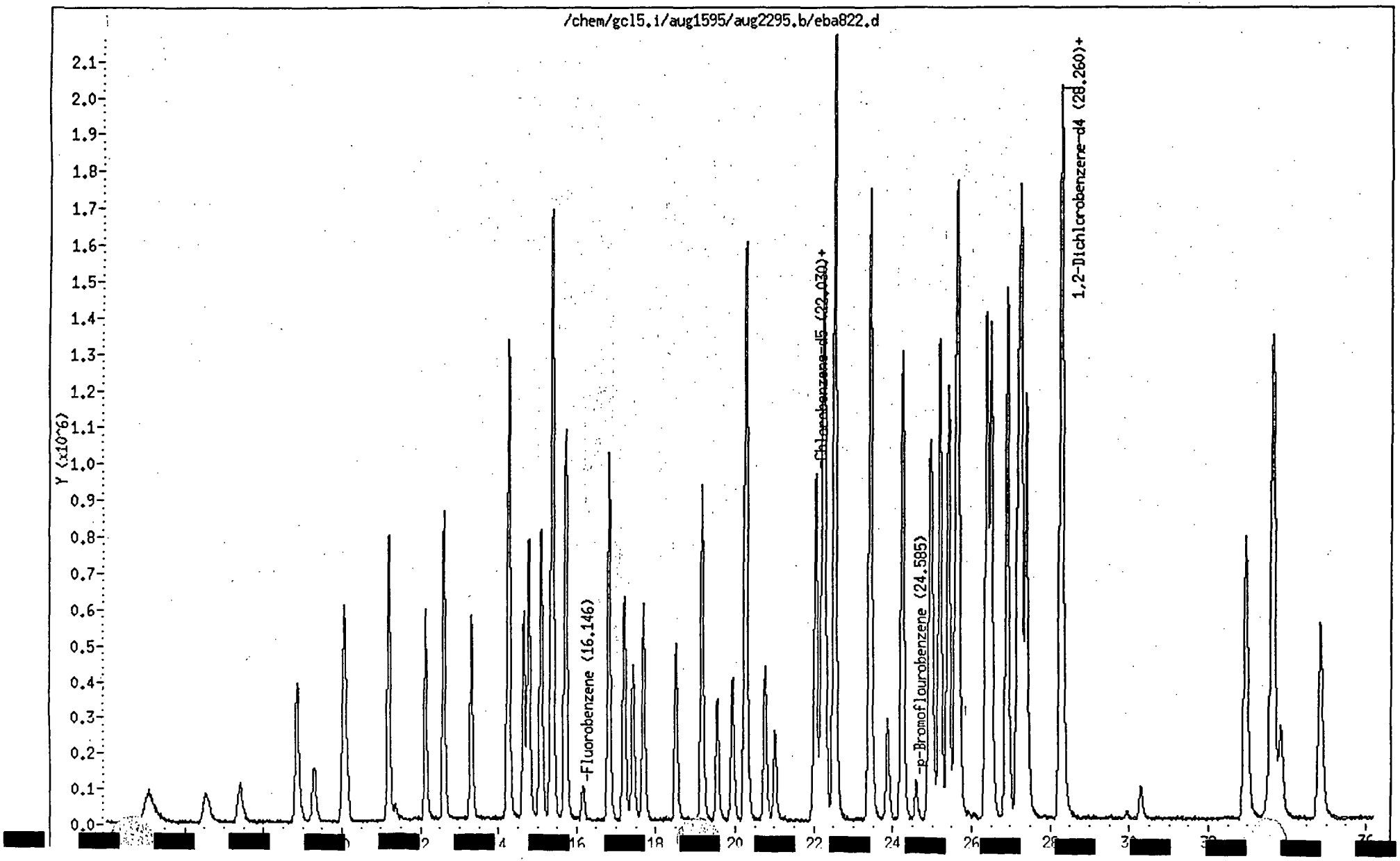
(TL) 8/23/95

Data File: /chem/gcl5.i/aug1595/aug2295.b/eba822.d
Date : 22-AUG-1995 18:06
Client ID:
Sample Info: STD10+ACETONE EAB822

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug2295.b/eba822.d
ab Smp Id:
j Date : 22-AUG-1995 18:06
erator : Inst ID: gcl5.i
np Info : STD10+ACETONE EAA822
isc Info : GCL#5,DIL=1, 25MLOFW STD10+ACETONE EAB822
mment :
ethod : /chem/gcl5.i/aug1595/aug2295.b/524.m
eth Date : 23-Aug-1995 12:41 rileymg Quant Type: ISTD
l Date : 22-AUG-1995 18:06 Cal File: eba822.d
s bottle: 15 Continuing Calibration Sample
il Factor: 1.000
tegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

mpounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
Dichlorodifluoromethane	85.00	5.097	5.097	(0.315)	838531	10.00	10.72(M)
2 Chloromethane	50.00	6.515	6.515	(0.403)	522663	10.00	9.87(M)
3 Vinyl chloride	62.00	7.402	7.402	(0.458)	550974	10.00	9.83(M)
4 Bromomethane	94.00	8.852	8.852	(0.548)	883891	10.00	11.36(M)
5 Chloroethane	64.00	9.271	9.271	(0.574)	453831	10.00	11.43(M)
6 Trichlorofluoromethane	101.00	10.045	10.045	(0.622)	1627470	10.00	12.20
7 1,1-Dichloroethene	96.00	11.182	11.182	(0.692)	787662	10.00	12.26
80 Acetone	43.00	11.351	11.351	(0.703)	114330	10.00	(M)
8 Methylene chloride	84.00	12.116	12.116	(0.750)	609201	10.00	11.17
9 trans-1,2-Dichloroethene	96.00	12.592	12.592	(0.779)	750842	10.00	12.21
10 1,1-Dichloroethane	63.00	13.293	13.293	(0.823)	1359617	10.00	10.85
11 2,2-Dichloropropane	77.00	14.236	14.236	(0.881)	952224	10.00	12.90
12 cis-1,2-Dichloroethene	96.00	14.244	14.244	(0.882)	713503	10.00	11.10
13 Bromochloromethane	128.00	14.631	14.631	(0.906)	373783	10.00	11.49
14 Chloroform	83.00	14.768	14.768	(0.914)	1382424	10.00	11.03
15 1,1,1-Trichloroethane	97.00	15.074	15.074	(0.933)	1352358	10.00	12.26
16 1,1-Dichloropropene	75.00	15.340	15.340	(0.950)	1132481	10.00	11.15
17 Carbon tetrachloride	117.00	15.356	15.356	(0.951)	1266121	10.00	12.76(M)
18 Benzene	78.00	15.695	15.695	(0.972)	1756633	10.00	10.54
19 1,2-Dichloroethane	62.00	15.719	15.719	(0.973)	629136	10.00	10.89
20 Fluorobenzene	95.95	16.154	16.154	(1.000)	190153	1.00	(M)
21 Trichloroethene	130.00	16.799	16.799	(1.040)	912677	10.00	11.04
22 1,2-Dichloropropane	63.00	17.186	17.186	(1.064)	614807	10.00	10.24
23 Dibromomethane	93.00	17.404	17.404	(1.077)	439734	10.00	10.37
Bromodichloromethane	83.00	17.678	17.678	(1.094)	1041753	10.00	11.00
cis-1,3-Dichloropropene	75.00	18.492	18.492	(1.145)	740209	10.00	11.21
26 Toluene	92.00	19.144	19.144	(1.185)	1108394	10.00	10.41
27 trans-1,3-Dichloropropene	75.00	19.539	19.539	(1.210)	503335	10.00	11.27
28 1,1,2-Trichloroethane	97.00	19.918	19.918	(1.233)	351654	10.00	10.54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
29 Tetrachloroethene	166.00	20.257	20.257	(1.254)	1187128	10.00	11.69
30 1,3-Dichloropropane	76.00	20.257	20.257	(1.254)	549952	10.00	10.35
31 Dibromochloromethane	127.00	20.748	20.748	(1.284)	505877	10.00	11.51
32 1,2-Dibromoethane	107.00	20.998	20.998	(1.300)	513776	10.00	10.46
33 Chlorobenzene-d5	117.00	21.965	21.965	(1.000)	129162	1.00	
34 Chlorobenzene	112.00	22.030	22.030	(1.364)	1452656	10.00	11.14
35 1,1,1,2-Tetrachloroethane	131.00	22.199	22.199	(1.011)	739092	10.00	11.45 (M)
36 Ethylbenzene	106.00	22.255	22.255	(1.013)	706385	10.00	10.64
37 m,p-Xylene	91.00	22.497	22.497	(1.024)	4030328	20.00	21.85
38 o-Xylene	91.00	23.392	23.392	(1.065)	1979362	10.00	10.90
39 Styrene	104.00	23.416	23.416	(1.066)	1268125	10.00	10.39
40 Bromoform	173.00	23.851	23.851	(1.086)	410147	10.00	11.37 (M)
41 Isopropylbenzene	105.00	24.222	24.222	(1.103)	2737428	10.00	11.06
42 p-Bromoflourobenzene	94.95	24.585	24.585	(1.119)	117792	~~10.00~~ 1.00	0.964 (M)
43 Bromobenzene	156.00	24.947	24.947	(1.136)	785893	10.00	11.67
44 1,1,2,2-Tetrachloroethane	83.00	24.883	24.883	(1.133)	462098	10.00	10.18
45 1,2,3-Trichloropropane	110.00	24.996	24.996	(1.138)	110826	10.00	10.78 (M)
46 n-Propylbenzene	91.00	25.181	25.181	(1.146)	3523881	10.00	10.95
47 2-Chlorotoluene	91.00	25.390	25.390	(1.156)	2183436	10.00	11.11
48 1,3,5-Trimethylbenzene	105.00	25.584	25.584	(1.165)	2371057	10.00	9.77
4-Chlorotoluene	91.00	25.640	25.640	(1.167)	2326505	10.00	10.98
tert-Butylbenzene	119.00	26.358	26.358	(1.200)	2470675	10.00	11.83
51 1,2,4-Trimethylbenzene	105.00	26.479	26.479	(1.205)	2265951	10.00	10.75
52 sec-Butylbenzene	105.00	26.898	26.898	(1.225)	3513707	10.00	10.87
53 1,3-Dichlorobenzene	146.00	27.172	27.172	(1.237)	1460945	10.00	11.40
54 p-Isopropyltoluene	119.00	27.244	27.244	(1.240)	2843051	10.00	11.68
55 1,4-Dichlorobenzene	146.00	27.381	27.381	(1.247)	1221002	10.00	9.67 (M)
56 1,2-Dichlorobenzene-d4	152.00	28.227	28.227	(1.285)	85551	~~10.00~~ 1.00	1.17 (M)
57 n-Butylbenzene	91.00	28.244	28.244	(1.286)	2958526	10.00	11.16
58 1,2-Dichlorobenzene	146.00	28.284	28.284	(1.288)	1261880	10.00	11.68
59 1,2-Dibromo-3-Chloropropane	75.00	30.299	30.299	(1.379)	89324	10.00	10.77 (M)
60 1,2,4-Trichlorobenzene	180.00	32.934	32.934	(1.499)	1053119	10.00	10.78
61 Hexachlorobutadiene	225.00	33.603	33.603	(1.530)	1426408	10.00	12.71 (M)
62 Naphthalene	128.00	33.821	33.821	(1.540)	804286	10.00	9.62 (M)
63 1,2,3-Trichlorobenzene	180.00	34.828	34.828	(1.586)	836987	10.00	10.66

C Flag Legend

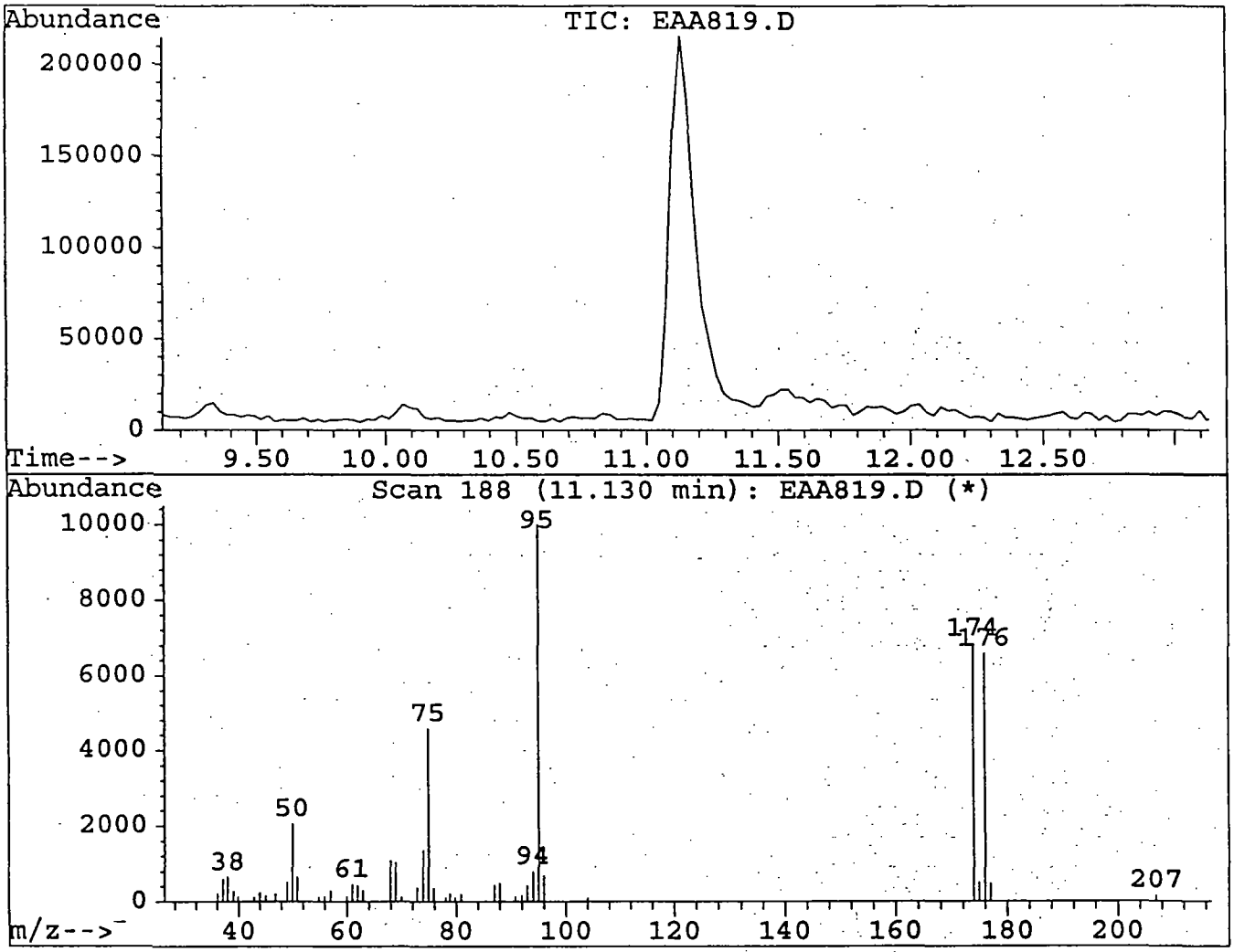
I - Compound response manually integrated.

BFB

Data File : C:\HPCHEM\1\DATA\AUG1995\EAA819.D
Acq On : 19 Aug 95 10:11 am
Sample : BFB TUNE EAA819
Misc : GCL#5,DIL=1,5MLOFW+1UL532

Vial: 1
Operator:
Inst : gcms5
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 188

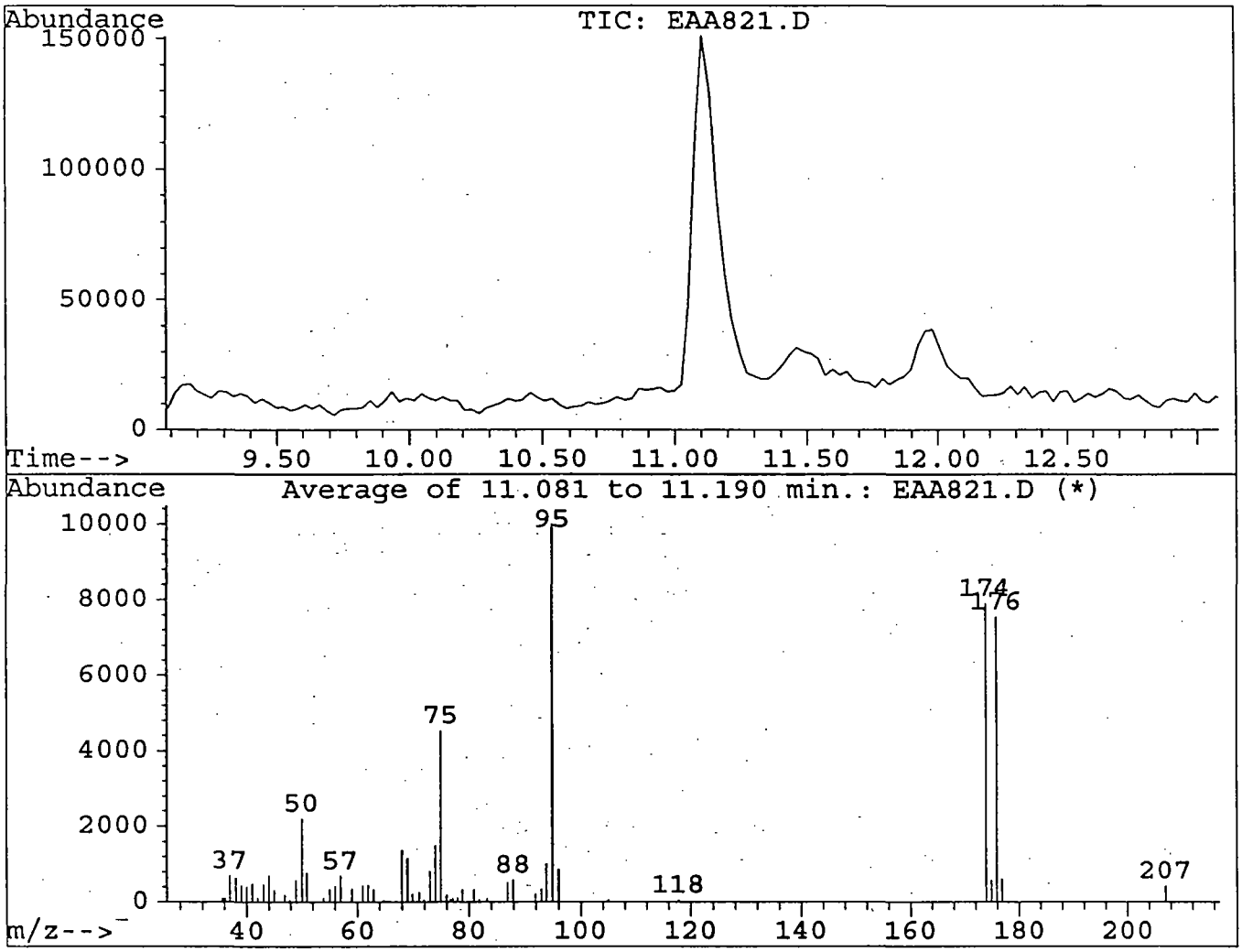
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	2052	PASS
75	95	30	60	45.8	4582	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	6.8	683	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	68.5	6846	PASS
175	174	5	9	7.3	498	PASS
176	174	95	101	96.3	6594	PASS
177	176	5	9	7.3	479	PASS

EAA819.D BFB.M Sat Aug 19 11:49:19 1995

BFB

Data File : C:\HPCHEM\1\DATA\AUG2195\EAA821.D Vial: 1
Acq On : 21 Aug 95 8:28 am Operator:
Sample : BFBTUNE EAA821 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW +1ULBFB BFBTUNE EAA82 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DEFAULT.M
Title :



Peak Apex is scan: 186

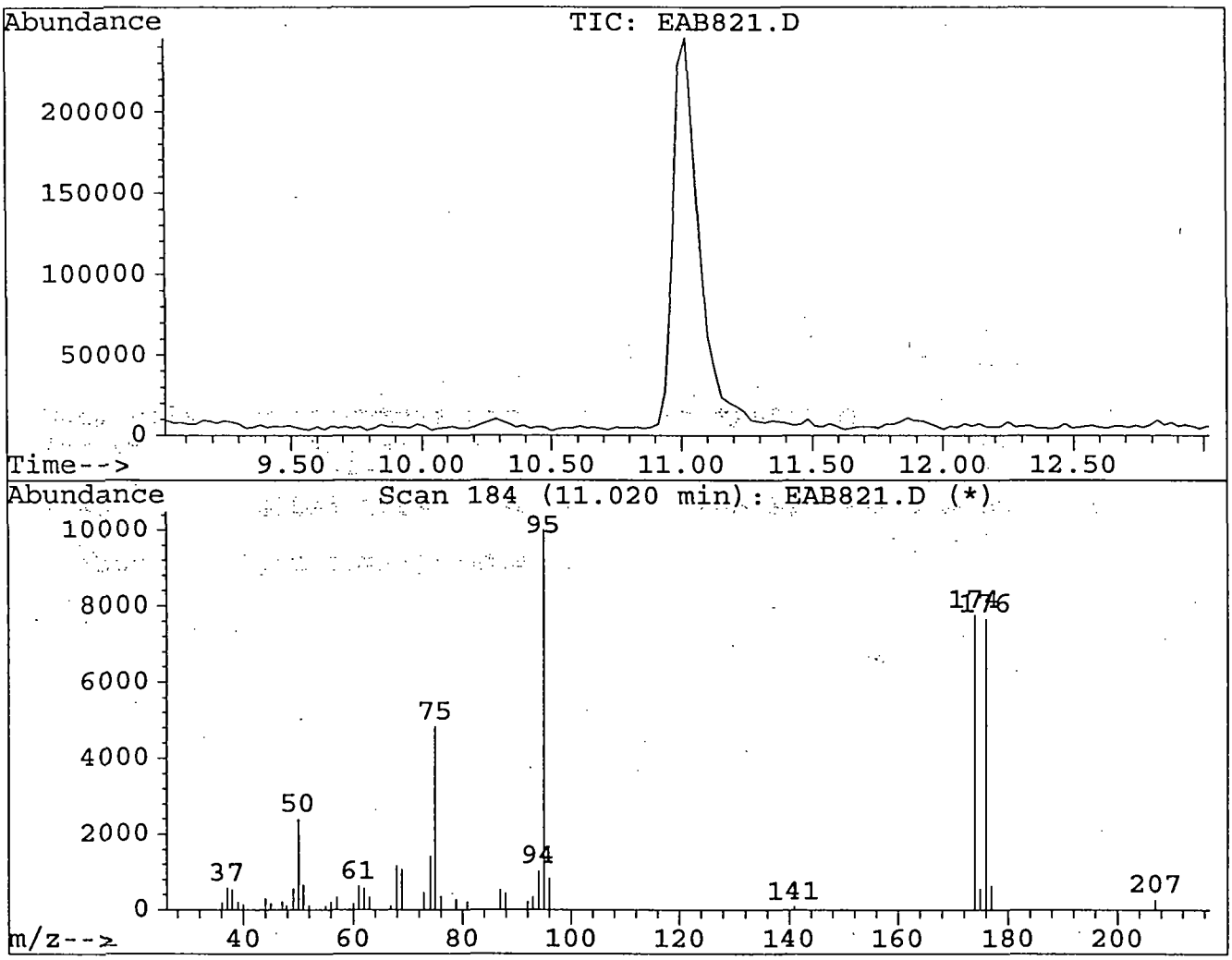
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	2198	PASS
75	95	30	60	45.3	4530	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	8.6	861	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	78.9	7894	PASS
175	174	5	9	7.2	567	PASS
176	174	95	101	95.6	7543	PASS
177	176	5	9	7.9	595	PASS

EAA821.D DEFAULT.M Mon Aug 21 09:13:59 1995

BFB

Data File : C:\HPCHEM\1\DATA\AUG2195A\EAB821.D Vial: 9
Acq On : 21 Aug 95 9:14 pm Operator:
Sample : BFBTUNE EAB821 Inst : gcms5
Misc : GCL#5,DIL=1, 5MLOFW +1UL BFB 532 BFB TUN Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 184

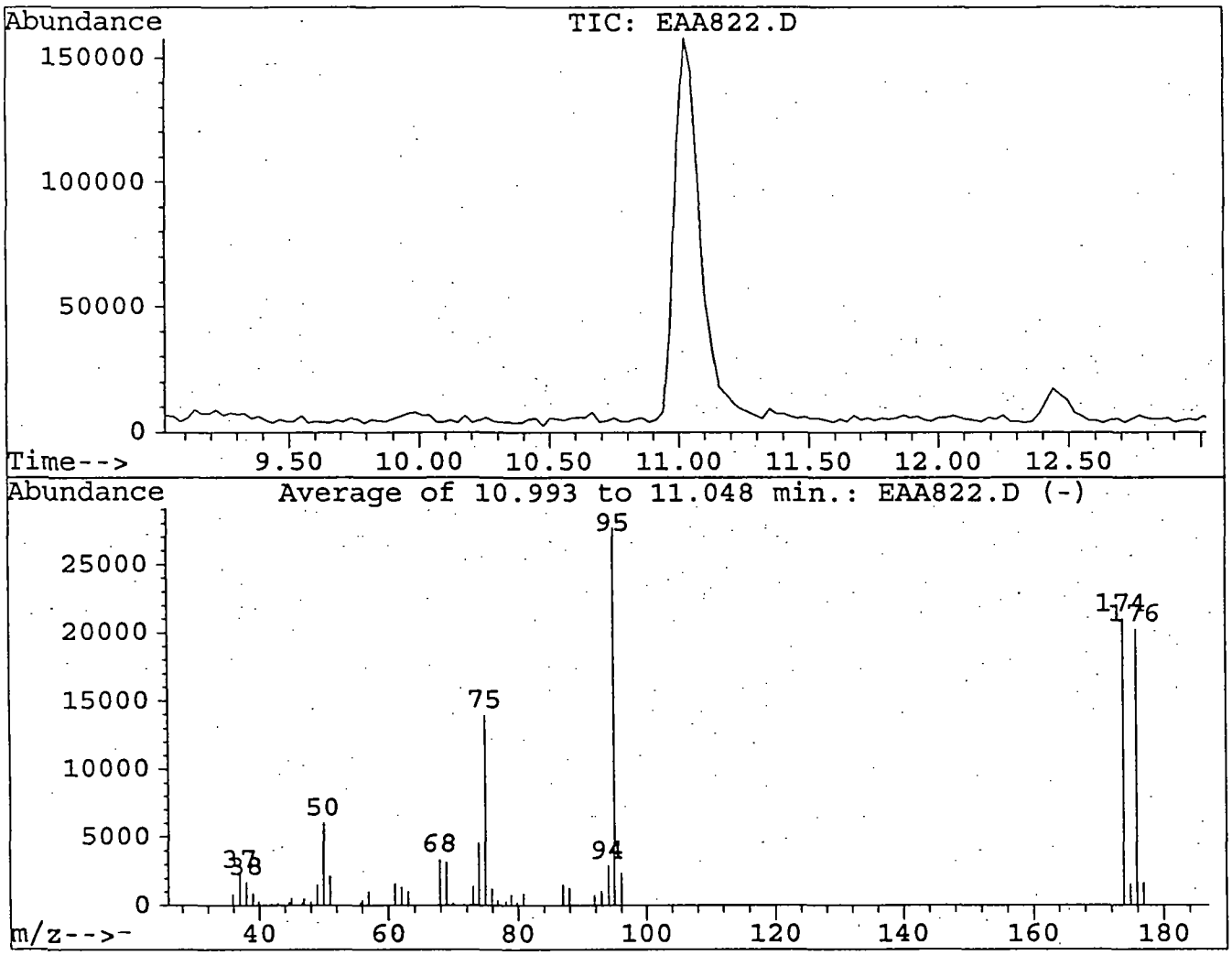
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	2396	PASS
75	95	30	60	48.3	4825	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	8.3	827	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	77.6	7758	PASS
175	174	5	9	7.3	568	PASS
176	174	95	101	98.5	7645	PASS
177	176	5	9	8.3	634	PASS

EAB821.D BFB.M Mon Aug 21 21:42:28 1995

BFB

Data File : C:\HPCHEM\1\DATA\AUG2295\EAA822.D Vial: 14
Acq On : 22 Aug 95 4:57 pm A Operator:
Sample : BFBTUNE EAA822 Inst : gcms5
Misc : GCL#5,DIL=1, 5MLOFW +BFBTUNE EAA822 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\524.M
Title : VOA Standards for 5 point calibration



Peak Apex is scan: 184

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	6044	PASS
75	95	30	60	50.4	13952	PASS
95	95	100	100	100.0	27696	PASS
96	95	5	9	8.4	2334	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	75.7	20963	PASS
175	174	5	9	7.4	1551	PASS
176	174	95	101	96.5	20230	PASS
177	176	5	9	8.1	1641	PASS

EAA822.D 524.M Tue Aug 22 17:23:52 1995

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 95GVE245-MB1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ECD821

Level: (low/med) LOW Date Received: 08/21/95

% Moisture: not dec. _____ Date Analyzed: 08/21/95

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER Lab Sample ID: 95GVE245-MB1

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: ECD821

Level: (low/med) LOW Date Received: 08/21/95

% Moisture: not dec. _____ Date Analyzed: 08/21/95

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	6	

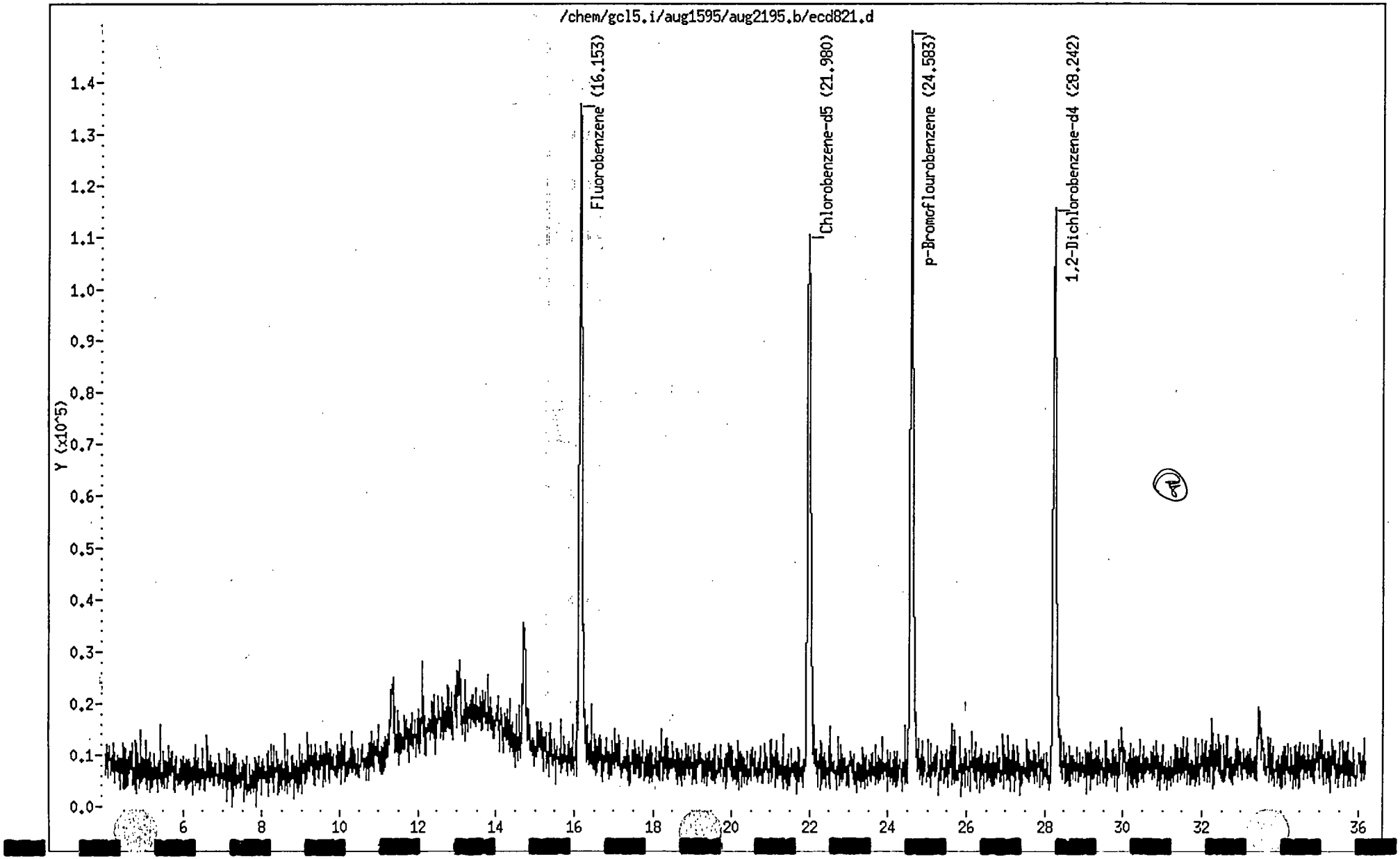
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195.b/ecd821.d
Date : 21-AUG-1995 13:57
Client ID:
Sample Info: 95GVE245-MB1 EAA821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ata file : /chem/gcl5.i/aug1595/aug2195.b/ecd821.d ✓
ab Smp Id:
nj Date : 21-AUG-1995 13:57
perator : Inst ID: gcl5.i
mp Info : 95GVE245-MB1 EAA821 ✓
isc Info : GCL#5,DIL=1,25MLOFW 95GVE245-MB1 EAA821
omment :
ethod : /chem/gcl5.i/aug1595/aug2195.b/524.m ✓
eth Date : 21-Aug-1995 13:23 naranjoe Quant Type: ISTD
al Date : 21-AUG-1995 11:57 Cal File: ebb821.d ✓
ls bottle: 2 QC Sample: BLANK
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.12

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Trichlorofluoromethane	101.00	10.052	10.062	(0.622)	1524	0.00813	0.00813
80 Acetone	43.00	11.341	11.332	(0.702)	49887	6.13	6.13 (M)
6 Methylene chloride	84.00	12.139	12.141	(0.752)	1910	0.0249	0.0249
20 Fluorobenzene	95.95	16.153	16.160	(1.000)	267308	1.00	
26 Toluene	92.00	19.191	19.177	(1.188)	961	0.00642	0.00642
33 Chlorobenzene-d5	117.00	21.980	21.963	(1.000)	185135	1.00	(M)
42 p-Bromoflourobenzene	94.95	24.583	24.585	(1.118)	166569	0.951	0.951 (M)
56 1,2-Dichlorobenzene-d4	152.00	28.250	28.244	(1.285)	97800	0.932	0.932 (M)

C Flag Legend

I - Compound response manually integrated.

Data File: /chem/gcl5.i/aug1595/aug2195.b/ecd821.d

Page 4

Date : 21-AUG-1995 13:57

Client ID:

Instrument: gcl5.i

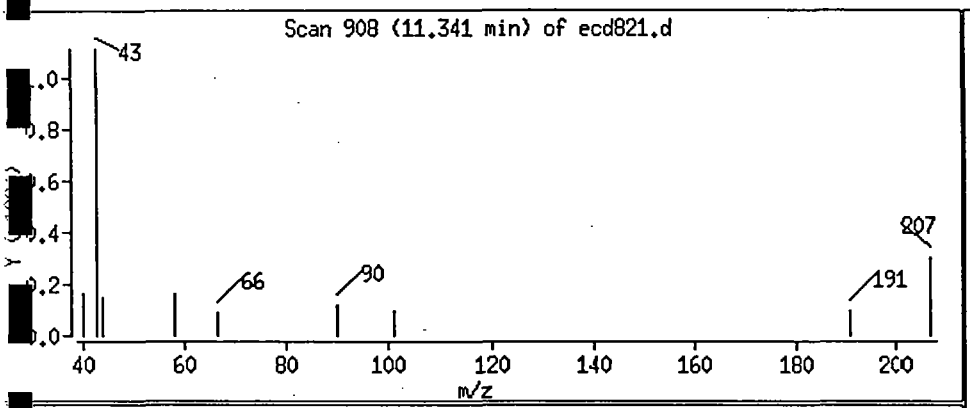
Sample Info: 95GVE245-MB1 EAA821

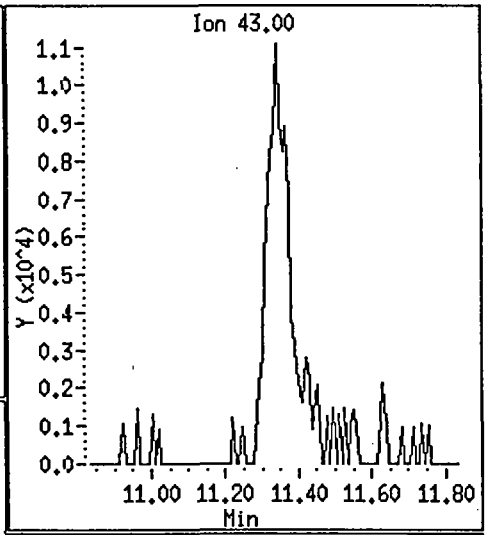
Operator:

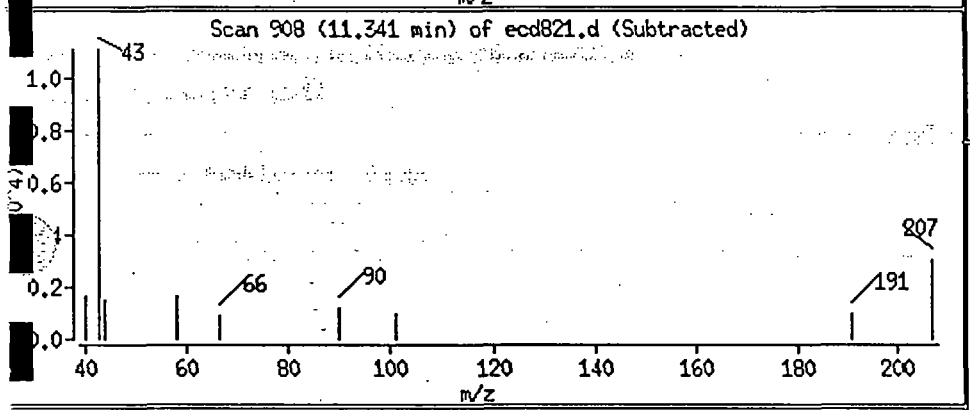
Column phase:

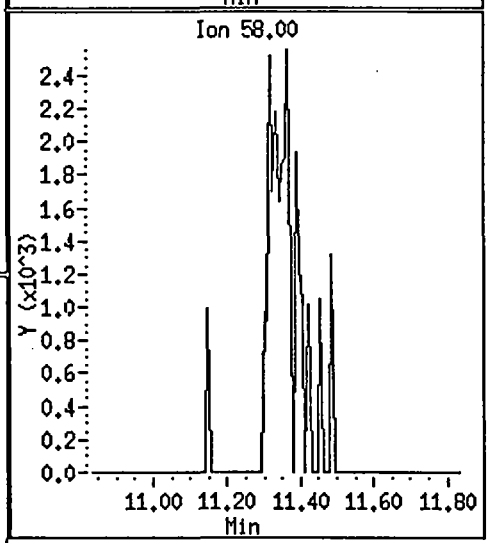
Column diameter: 2.00

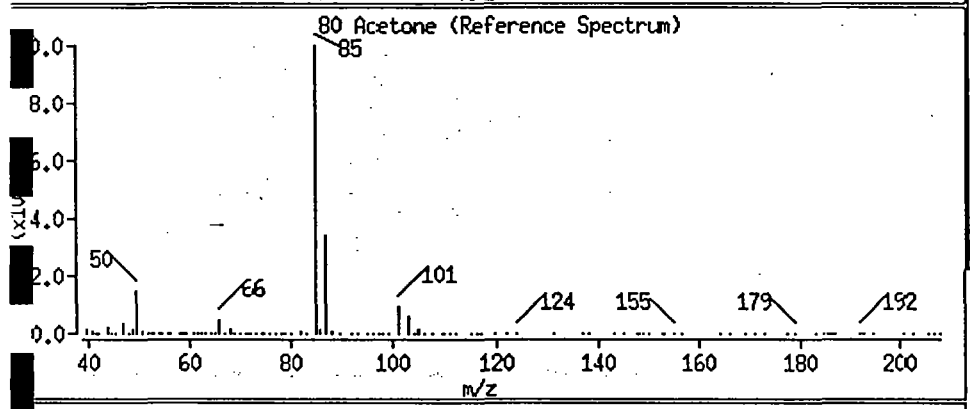
80 Acetone

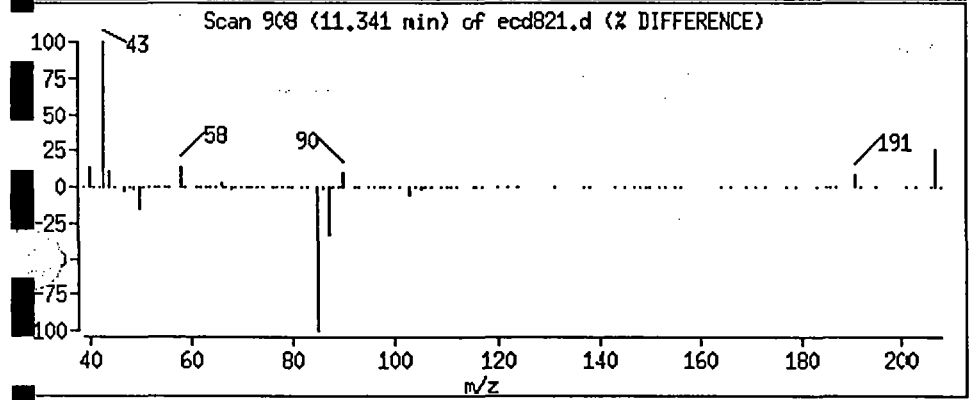












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: NONE

Client: LAB

Matrix: WATER

Lab Sample ID: 95GVE246-MB1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECF821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/21/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: NONE

Client: LAB

Matrix: WATER

Lab Sample ID: 95GVE246-MB1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECF821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/21/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	4	

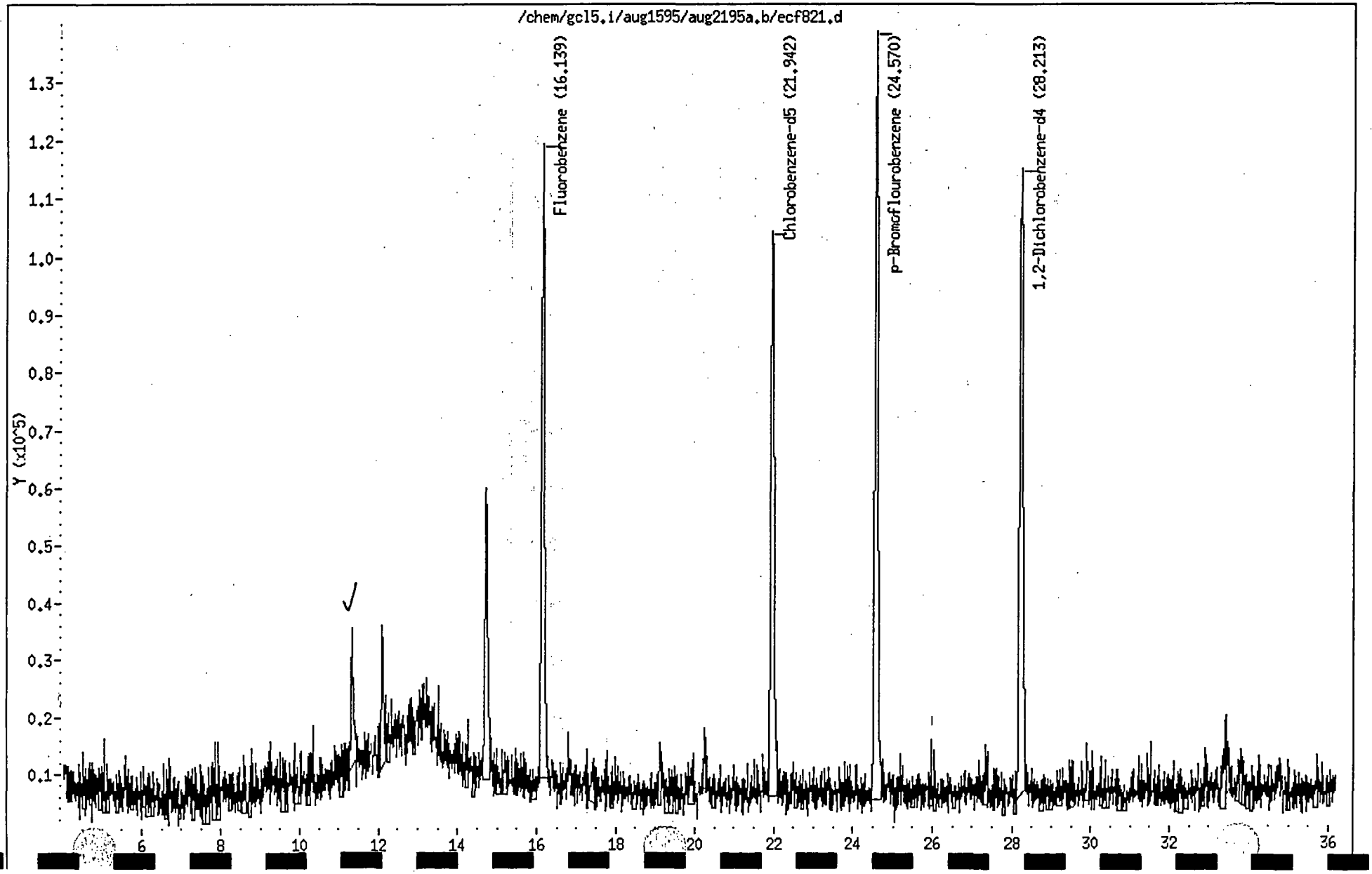
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/ecf821.d
Date : 21-AUG-1995 23:10
Client ID:
Sample Info: 95GVE246-MB1 EAB821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug2195a.b/ecf821.d ✓
ab Smp Id:
j Date : 21-AUG-1995 23:10
erator : Inst ID: gcl5.i
mp Info : 95GVE246-MB1 EAB821 ✓
isc Info : GCL#5,DIL=1, 25MLOFW +10ULIS,1ULSS
mment :
thod : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
eth Date : 21-Aug-1995 23:24 naranjoe Quant Type: ISTD
l Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
s bottle: 11 QC Sample: BLANK
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
ompounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
Acetone	43.00	11.328	11.324	(0.702)	83389	4.23	4.23 (M)
20 Fluorobenzene	95.95	16.131	16.136	(1.000)	266591 ✓	1.00	(M)
33 Chlorobenzene-d5	117.00	21.942	21.946	(1.000)	175416 ✓	1.00	(M)
42 p-Bromoflourobenzene	94.95	24.554	24.558	(1.119)	160082	9.53	9.53 (M) ✓
56 1,2-Dichlorobenzene-d4	152.00	28.205	28.217	(1.285)	94196	8.87	8.87 (M) ✓

Flag Legend

- Compound response manually integrated.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/ecf821.d

Date : 21-AUG-1995 23:10

Client ID:

Instrument: gcl5.i

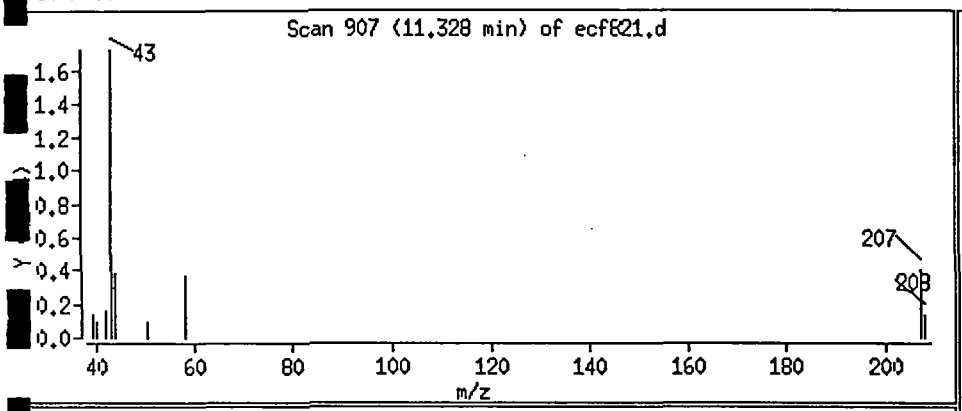
Sample Info: 95GVE246-MB1 EAB821

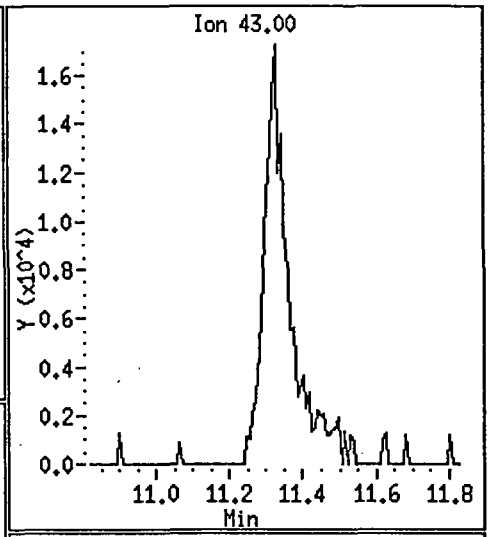
Operator:

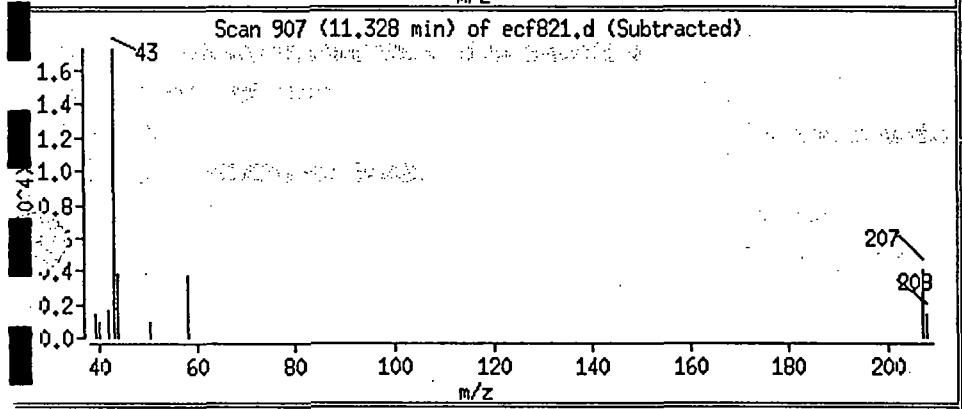
Column phase:

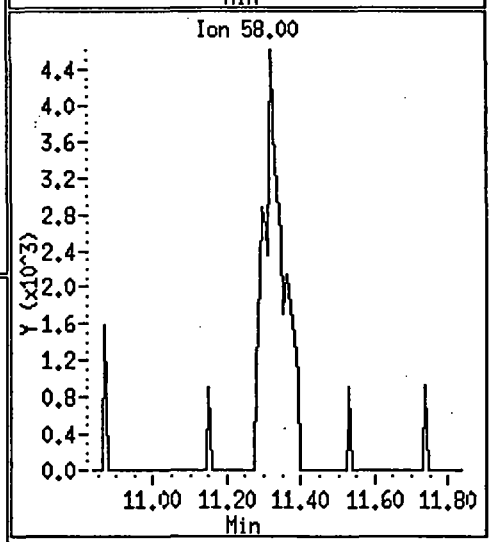
Column diameter: 2.00

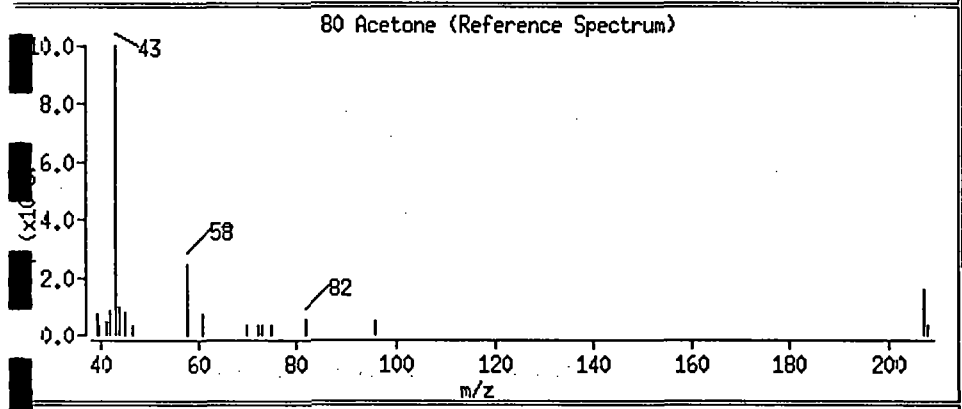
80 Acetone

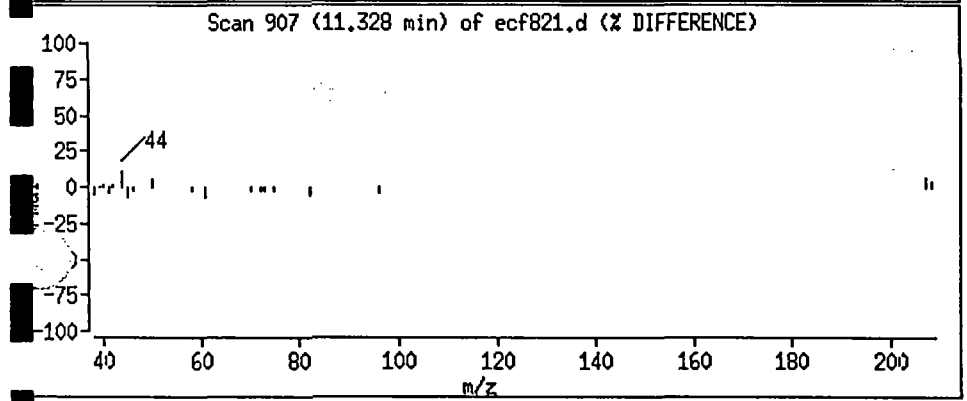












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE247-MB1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECA822

Level: (low/med) LOW

Date Received: 08/22/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
74-83-9	Bromomethane	0.5	U
75-01-4	Vinyl chloride	0.5	U
75-00-3	Chloroethane	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
594-20-7	2,2-Dichloropropane	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
67-66-3	Chloroform	0.5	U
74-97-5	Bromochloromethane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
75-27-4	Bromodichloromethane	0.5	U
74-95-3	Dibromomethane	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
79-01-6	Trichloroethene	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
71-43-2	Benzene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
75-25-2	Bromoform	0.5	U
127-18-4	Tetrachloroethene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-88-3	Toluene	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U

FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE247-MB1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECA822

Level: (low/med) LOW

Date Received: 08/22/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene	0.5	U
000-00-0	m/p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
98-82-8	Isopropylbenzene	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
67-64-1	Acetone	6	

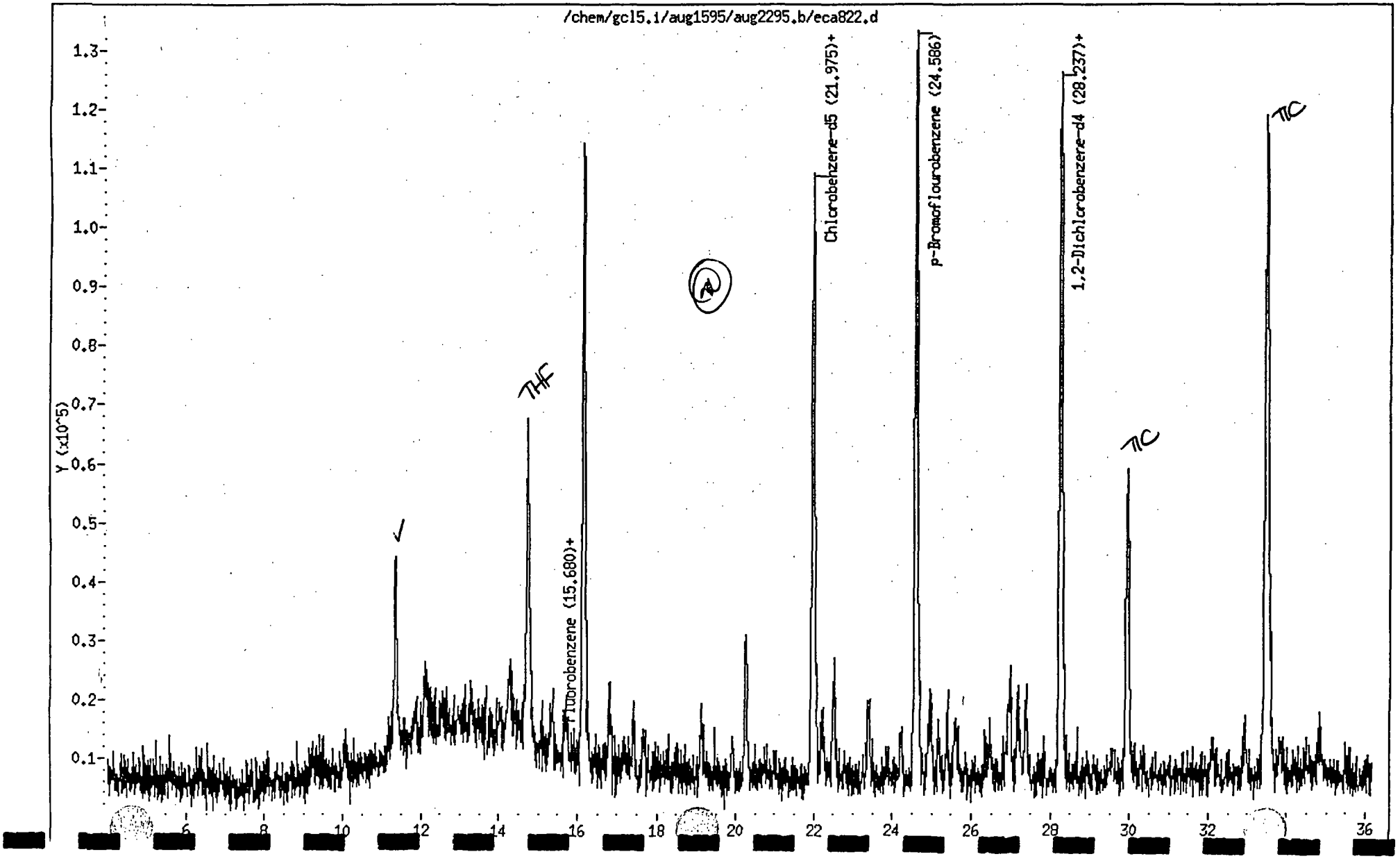
FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2295.b/eca822.d
Date : 22-AUG-1995 19:14
Client ID:
Sample Info: 95GVE247-MB1 EAB822

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2295.b/eca822.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 19:14
Operator :
Inst ID: gcl5.i
Smp Info : 95GVE247-MB1 EAA822 ✓
Misc Info : GCL#5,DIL=1, 25MLOFW
Comment :
Method : /chem/gcl5.i/aug1595/aug2295.b/524.m ✓
Meth Date : 23-Aug-1995 12:41 rileymg
Quant Type: ISTD
Cal Date : 22-AUG-1995 18:06
Cal File: eba822.d ✓
Als bottle: 16
QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)		FINAL (ug/L)	
Acetone	43.00	11.352	11.351	(0.703)	92035	6.75		6.75	(M)
* 20 Fluorobenzene	95.95	16.156	16.154	(1.000)	226645 ✓	1.00			(M)
33 Chlorobenzene-d5	117.00	21.975	21.965	(1.000)	169886 ✓	1.00			
42 p-Bromoflourobenzene	94.95	24.586	24.585	(1.119)	141352	9.12	✓	9.12	(M)
$ 56 1,2-Dichlorobenzene-d4	152.00	28.253	28.227	(1.286)	97906	8.70	✓	8.70	(M)

QC Flag Legend

- Compound response manually integrated.

Data File: /chem/gcl5.i/aug1595/aug2295.b/eca822.d

Date : 22-AUG-1995 19:14

Client ID:

Instrument: gcl5.i

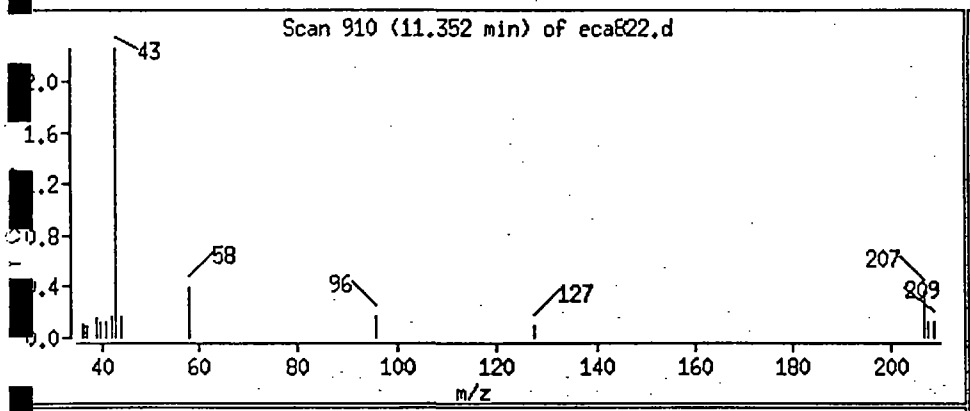
Sample Info: 95GVE247-MB1 EAA822

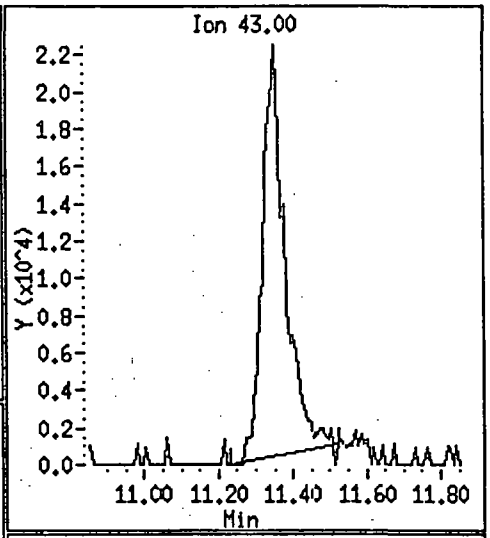
Operator:

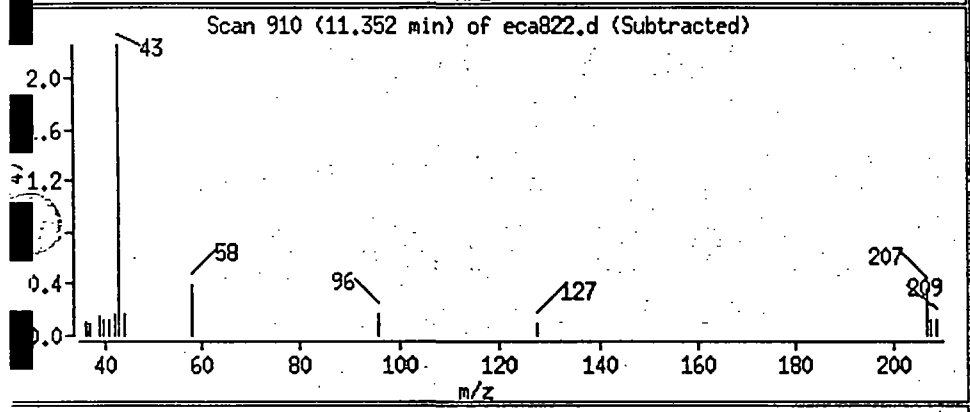
Column phase:

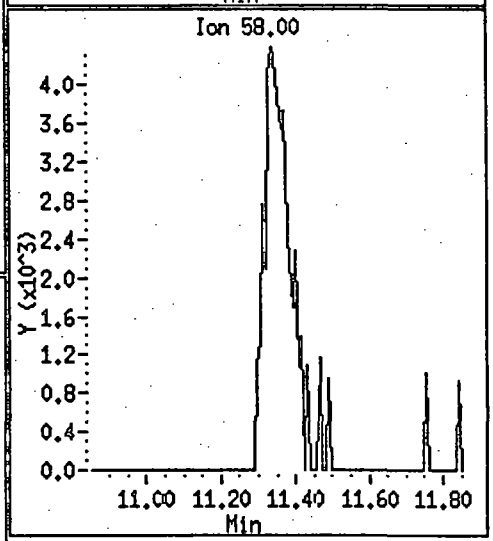
Column diameter: 2.00

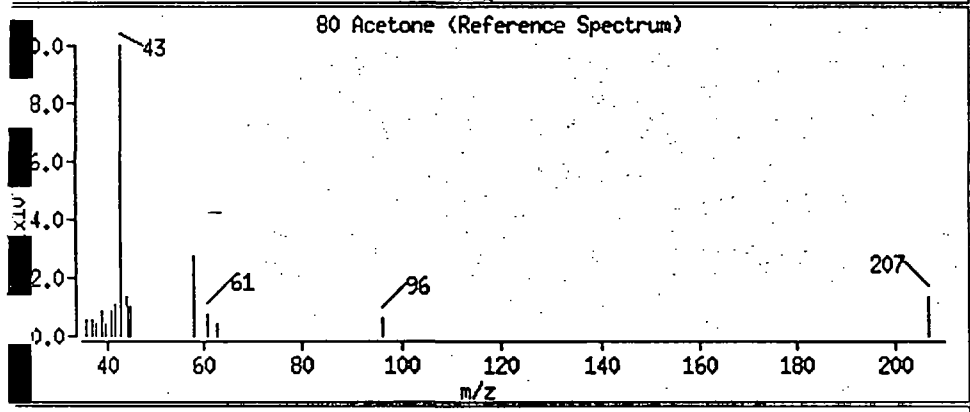
80 Acetone

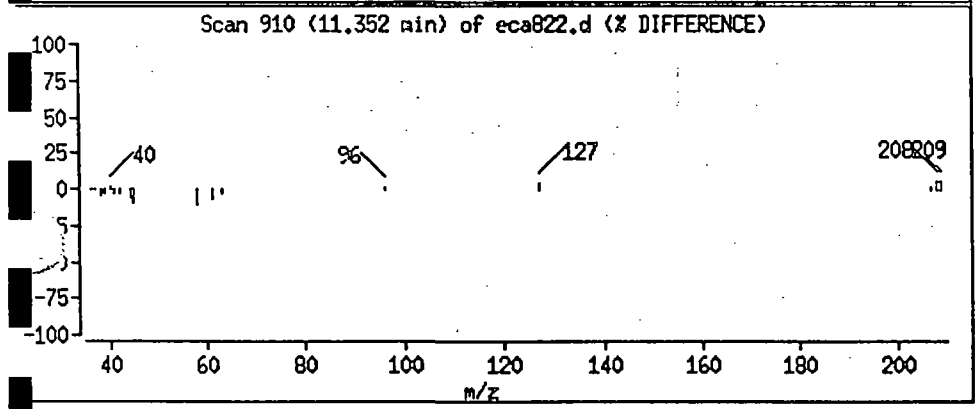












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2MS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001 MS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI07

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2MS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001 MS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI07

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-01-5	cis-1,3-Dichloropropene		S
10061-02-6	trans-1,3-Dichloropropene		S
67-64-1	Acetone	2	U

S: SPIKE COMPOUND

FORM 1 V-2

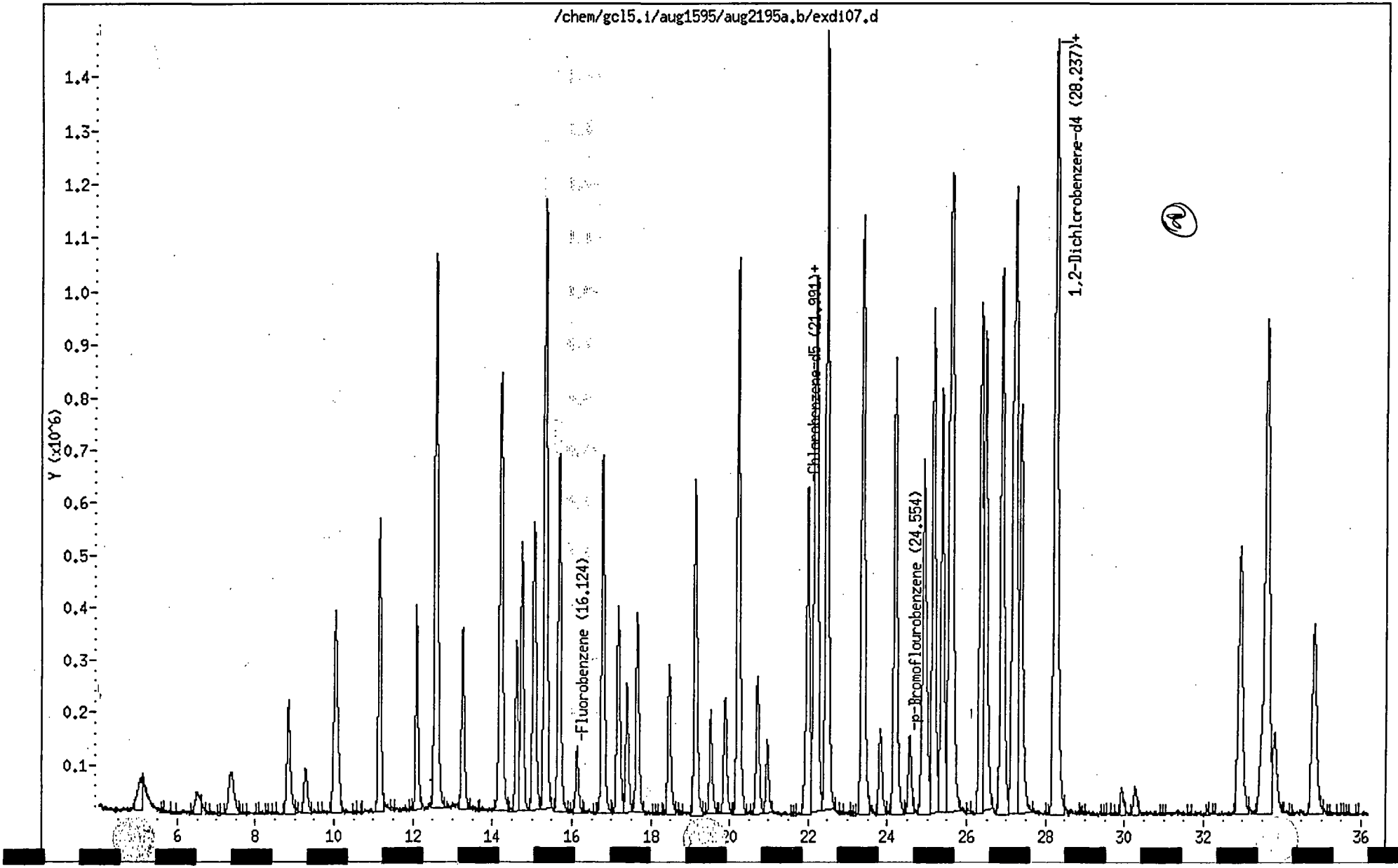
12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi07.d
Date : 22-AUG-1995 05:13
Client ID:
Sample Info: 9508G630-001S EAB821

Instrument: gcl5.i

Operator:
Column diameter: 2.00

Column phase:



Gulf Coast

METHOD 524

ta file : /chem/gcl5.i/aug1595/aug2195a.b/exdi07.d ✓
ab Smp Id:
nj Date : 22-AUG-1995 05:13
erator : Inst ID: gcl5.i
mp Info : 9508G630-001S EAB821 ✓
isc Info : GCL#5,DIL=1, 25MLSMP
mment :
ethod : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
eth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
l Date : 21-AUG-1995 21:55 Cal File: ebc821.d
s bottle: 3 QC Sample: BLANK
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
rget Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1	Dichlorodifluoromethane	85.00	5.082	5.094	(0.000)	635818	5.26	5.26 (M)
2	Chloromethane	50.00	6.517	6.521	(0.000)	253893	3.15	3.15 (M)
3	Vinyl chloride	62.00	7.395	7.391	(0.000)	366077	4.52	4.52 (M)
4	Bromomethane	94.00	8.830	8.842	(0.000)	478962	3.73	3.73 (M)
5	Chloroethane	64.00	9.257	9.269	(0.000)	246367	3.73	3.73 (M)
6	Trichlorofluoromethane	101.00	10.031	10.026	(0.000)	1009832	4.45	4.45 (M)
7	1,1-Dichloroethene	96.00	11.143	11.163	(0.000)	482885	4.50	4.50 (M)
8	Methylene chloride	84.00	12.086	12.098	(0.000)	379602	4.70	4.70 (M)
9	trans-1,2-Dichloroethene	96.00	12.561	12.565	(0.000)	485309	4.69	4.69 (M)
10	1,1-Dichloroethane	63.00	13.262	13.266	(0.000)	823843	4.52	4.52 (M)
11	2,2-Dichloropropane	77.00	14.205	14.209	(0.000)	641084	4.63	4.63 (M)
12	cis-1,2-Dichloroethene	96.00	14.222	14.225	(0.000)	475289	4.76	4.76 (M)
13	Bromochloromethane	128.00	14.616	14.628	(0.000)	221201	4.11	4.11 (M)
14	Chloroform	83.00	14.745	14.757	(0.000)	945767	4.71	4.71 (M)
15	1,1,1-Trichloroethane	97.00	15.060	15.072	(0.000)	920084	4.80	4.80 (M)
16	1,1-Dichloropropene	75.00	15.326	15.322	(0.000)	711236	4.47	4.47 (M)
17	Carbon tetrachloride	117.00	15.342	15.346	(0.000)	856803	4.64	4.64 (M)
18	Benzene	78.00	15.672	15.684	(0.000)	1125496	4.63	4.63 (M)
19	1,2-Dichloroethane	62.00	15.696	15.708	(0.000)	378981	3.94	3.94 (M)
20	Fluorobenzene	95.95	16.124	16.136	(1.000)	277733	1.00	(M)
21	Trichloroethene	130.00	16.776	16.788	(1.040)	563777	4.34	4.34 (M)
22	1,2-Dichloropropane	63.00	17.163	17.175	(1.064)	389779	4.27	4.27 (M)
23	Dibromomethane	93.00	17.389	17.401	(1.078)	226740	3.39	3.39 (M)
24	Bromodichloromethane	83.00	17.647	17.659	(1.094)	635282	4.12	4.12 (M)
25	cis-1,3-Dichloropropene	75.00	18.453	18.473	(1.144)	427988	3.88	3.88 (M)
26	Toluene	92.00	19.114	19.134	(1.185)	752861	4.65	4.65 (M)
27	trans-1,3-Dichloropropene	75.00	19.517	19.521	(1.210)	293068	3.64	3.64 (M)
28	1,1,2-Trichloroethane	97.00	19.879	19.899	(1.233)	210357	4.16	4.16 (M)
29	Tetrachloroethene	166.00	20.218	20.238	(1.254)	810871	4.81	4.81 (M)

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
30 1,3-Dichloropropane	76.00	20.218	20.246	(1.254)	333392	4.11	4.11 (M)
31 Dibromochloromethane	127.00	20.701	20.729	(1.284)	299784	3.81	3.81 (M)
32 1,2-Dibromoethane	107.00	20.951	20.979	(1.299)	291947	3.77	3.77 (M)
33 Chlorobenzene-d5	117.00	21.926	21.946	(1.000)	176160	1.00	(M)
34 Chlorobenzene	112.00	21.999	22.011	(0.000)	939131	4.39	4.39 (M)
35 1,1,1,2-Tetrachloroethane	131.00	22.160	22.172	(1.011)	457269	4.64	4.64 (M)
36 Ethylbenzene	106.00	22.209	22.229	(1.013)	426518	5.13	5.13 (M)
37 m,p-Xylene	91.00	22.458	22.486	(1.024)	2628614	11.02	11.02 (M)
38 o-Xylene	91.00	23.353	23.381	(1.065)	1316101	5.31	5.31 (M)
39 Styrene	104.00	23.377	23.397	(1.066)	811348	4.83	4.83 (M)
40 Bromoform	173.00	23.820	23.832	(1.086)	220512	4.00	4.00 (M)
41 Isopropylbenzene	105.00	24.191	24.203	(1.103)	1917055	5.57	5.57 (M)
42 p-Bromoflourobenzene	94.95	24.562	24.558	(0.000)	177687	10.54	10.54 (M) 1.054
43 Bromobenzene	156.00	24.917	24.928	(1.136)	504518	5.16	5.16 (M)
44 1,1,2,2-Tetrachloroethane	83.00	24.860	24.872	(1.134)	279252	4.40	4.40 (M)
45 1,2,3-Trichloropropane	110.00	24.973	24.985	(1.139)	62338	4.25	4.25 (M)
46 n-Propylbenzene	91.00	25.150	25.162	(1.147)	2052142	4.59	4.59 (M)
47 2-Chlorotoluene	91.00	25.360	25.372	(1.157)	1207295	4.41	4.41 (M)
48 1,3,5-Trimethylbenzene	105.00	25.561	25.581	(1.166)	1603370	5.49	5.49 (M)
49 4-Chlorotoluene	91.00	25.610	25.622	(1.168)	1447903	5.17	5.17 (M)
tert-Butylbenzene	119.00	26.351	26.355	(1.202)	1748523	5.93	5.93 (M)
1,2,4-Trimethylbenzene	105.00	26.456	26.460	(1.207)	1561789	5.50	5.50 (M)
52 sec-Butylbenzene	105.00	26.875	26.879	(1.226)	2462701	5.94	5.94 (M)
53 1,3-Dichlorobenzene	146.00	27.149	27.153	(1.238)	840362	4.51	4.51 (M)
54 p-Isopropyltoluene	119.00	27.230	27.225	(1.242)	1864492	5.42	5.42 (M)
55 1,4-Dichlorobenzene	146.00	27.375	27.362	(1.248)	817005	4.28	4.28 (M)
56 1,2-Dichlorobenzene-d4	152.00	28.229	28.217	(0.000)	115033	10.78	10.78 (M) 1.078
57 n-Butylbenzene	91.00	28.221	28.225	(1.287)	2081435	6.17	6.17 (M)
58 1,2-Dichlorobenzene	146.00	28.269	28.265	(1.289)	782050	5.10	5.10 (M)
59 1,2-Dibromo-3-Chloropropane	75.00	30.276	30.264	(1.381)	47887	4.14	4.14 (M)
60 1,2,4-Trichlorobenzene	180.00	32.920	32.915	(1.501)	689022	5.26	5.26 (M)
61 Hexachlorobutadiene	225.00	33.581	33.601	(1.532)	1027480	6.53	6.53 (M)
62 Naphthalene	128.00	33.798	33.818	(1.541)	517936	4.81	4.81 (M)
63 1,2,3-Trichlorobenzene	180.00	34.806	34.818	(1.587)	592132	5.55	5.55 (M)

8/24/95

)C Flag Legend

- Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2MSD

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001 MSD

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI08

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

MW-ND2MSD

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 9508G630-001 MSD

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: EXDI08

Level: (low/med) LOW

Date Received: 08/18/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-01-5	cis-1,3-Dichloropropene		S
10061-02-6	trans-1,3-Dichloropropene		S
67-64-1	Acetone	2	U

S: SPIKE COMPOUND

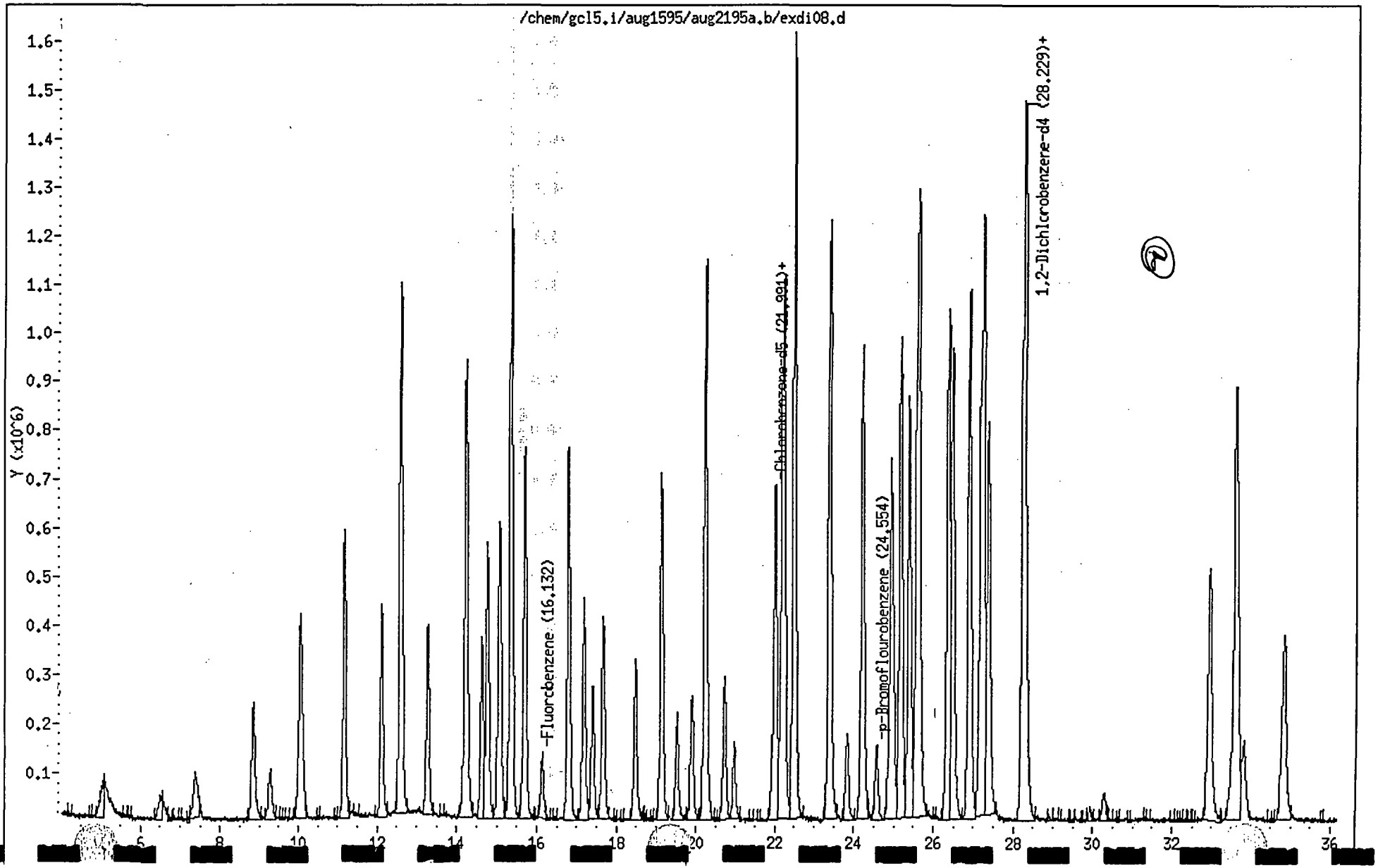
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/exdi08.d
Date : 22-AUG-1995 05:56
Client ID:
Sample Info: 9508G630-001T EAB821

Instrument: gcl5.i

Operator:
Column phase:
Column diameter: 2.00



Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/exdi08.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 05:56
Operator : Inst ID: gcl5.i
Smp Info : 9508G630-001T EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLSMP
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1	Dichlorodifluoromethane	85.00	5.082	5.094	(0.000)	669253	5.40	5.40(M)
2	Chloromethane	50.00	6.501	6.521	(0.000)	295615	3.57	3.57(M)
3	Vinyl chloride	62.00	7.379	7.391	(0.000)	405268	4.88	4.88(M)
4	Bromomethane	94.00	8.830	8.842	(0.000)	523637	3.97	3.97(M)
5	Chloroethane	64.00	9.265	9.269	(0.000)	277583	4.10	4.10(M)
6	Trichlorofluoromethane	101.00	10.023	10.026	(0.000)	1107805	4.76	4.76(M)
7	1,1-Dichloroethene	96.00	11.143	11.163	(0.000)	550077	4.99	4.99(M)
8	Methylene chloride	84.00	12.094	12.098	(0.000)	438029	5.28	5.28(M)
9	trans-1,2-Dichloroethene	96.00	12.569	12.565	(0.000)	514828	4.85	4.85(M)
10	1,1-Dichloroethane	63.00	13.254	13.266	(0.000)	901086	4.82	4.82(M)
11	2,2-Dichloropropane	77.00	14.214	14.209	(0.000)	704222	4.96	4.96(M)
12	cis-1,2-Dichloroethene	96.00	14.222	14.225	(0.000)	492097	4.81	4.81(M)
13	Bromochloromethane	128.00	14.617	14.628	(0.000)	238410	4.32	4.32(M)
14	Chloroform	83.00	14.745	14.757	(0.000)	1030737	5.00	5.00(M)
15	1,1,1-Trichloroethane	97.00	15.052	15.072	(0.000)	991556	5.04	5.04(M)
16	1,1-Dichloropropene	75.00	15.326	15.322	(0.000)	841926	5.15	5.15(M)
17	Carbon tetrachloride	117.00	15.342	15.346	(0.000)	918241	4.84	4.84(M)
18	Benzene	78.00	15.688	15.684	(0.000)	1216408	4.88	4.88(M)
19	1,2-Dichloroethane	62.00	15.688	15.708	(0.973)	416909	4.23	4.23(M)
* 20	Fluorobenzene	95.95	16.132	16.136	(1.000)	285007	1.00	(M)
21	Trichloroethene	130.00	16.768	16.788	(1.039)	664532	4.98	4.98(M)
22	1,2-Dichloropropane	63.00	17.163	17.175	(1.064)	435781	4.65	4.65(M)
23	Dibromomethane	93.00	17.381	17.401	(1.077)	262034	3.81	3.81(M)
24	Bromodichloromethane	83.00	17.647	17.659	(1.094)	710065	4.49	4.49(M)
25	cis-1,3-Dichloropropene	75.00	18.461	18.473	(1.144)	453722	4.01	4.01(M)
26	Toluene	92.00	19.122	19.134	(1.185)	818292	4.92	4.92(M)
27	trans-1,3-Dichloropropene	75.00	19.517	19.521	(1.210)	321057	3.89	3.89(M)
28	1,1,2-Trichloroethane	97.00	19.887	19.899	(1.233)	227978	4.40	4.40(M)
29	Tetrachloroethene	166.00	20.218	20.238	(1.253)	846596	4.90	4.90(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
30 1,3-Dichloropropane	76.00	20.218	20.246	(1.253)	360453	4.33	4.33(M)	
31 Dibromochloromethane	127.00	20.718	20.729	(1.284)	340686	4.22	4.22(M)	
32 1,2-Dibromoethane	107.00	20.959	20.979	(1.299)	327835	4.12	4.12(M)	
33 Chlorobenzene-d5	117.00	21.918	21.946	(1.000)	180039	1.00	(M)	
34 Chlorobenzene	112.00	21.991	22.011	(1.363)	1008090	4.60	4.60(M)	
35 1,1,1,2-Tetrachloroethane	131.00	22.160	22.172	(1.011)	502673	4.99	4.99(M)	
36 Ethylbenzene	106.00	22.217	22.229	(1.014)	468734	5.52	5.52(M)	
37 m,p-Xylene	91.00	22.466	22.486	(1.025)	2804687	11.51	11.51(M)	
38 o-Xylene	91.00	23.353	23.381	(1.065)	1476739	5.83	5.83(M)	
39 Styrene	104.00	23.377	23.397	(1.067)	840821	4.90	4.90(M)	
40 Bromoform	173.00	23.812	23.832	(1.086)	252959	4.49	4.49(M)	
41 Isopropylbenzene	105.00	24.191	24.203	(1.104)	2035117	5.78	5.78(M)	
$ 42 p-Bromoflourobenzene	94.95	24.554	24.558	(1.120)	172928	~~10.03~~	10.03(M)	1.003
43 Bromobenzene	156.00	24.917	24.928	(1.137)	549197	5.49	5.49(M)	
44 1,1,2,2-Tetrachloroethane	83.00	24.868	24.872	(1.135)	297451	4.58	4.58(M)	
45 1,2,3-Trichloropropane	110.00	24.973	24.985	(1.139)	67344	4.49	4.49(M)	
46 n-Propylbenzene	91.00	25.150	25.162	(1.147)	2309104	5.05	5.05(M)	
47 2-Chlorotoluene	91.00	25.368	25.372	(1.157)	1304705	4.66	4.66(M)	
48 1,3,5-Trimethylbenzene	105.00	25.561	25.581	(1.166)	1670897	5.60	5.60(M)	
49 4-Chlorotoluene	91.00	25.626	25.622	(1.169)	1578817	5.52	5.52(M)	
50 tert-Butylbenzene	119.00	26.351	26.355	(1.202)	1812668	6.01	6.01(M)	
51 1,2,4-Trimethylbenzene	105.00	26.464	26.460	(1.207)	1641762	5.65	5.65(M)	
52 sec-Butylbenzene	105.00	26.875	26.879	(1.226)	2546315	6.00	6.00(M)	
53 1,3-Dichlorobenzene	146.00	27.149	27.153	(1.239)	914128	4.80	4.80(M)	
54 p-Isopropyltoluene	119.00	27.230	27.225	(1.242)	1992256	5.66	5.66(M)	
55 1,4-Dichlorobenzene	146.00	27.359	27.362	(1.248)	815642	4.18	4.18(M)	
$ 56 1,2-Dichlorobenzene-d4	152.00	28.221	28.217	(1.288)	116807	~~10.71~~	10.71(M)	1.071
57 n-Butylbenzene	91.00	28.229	28.225	(1.288)	2063520	5.98	5.98(M)	
58 1,2-Dichlorobenzene	146.00	28.269	28.265	(1.290)	787729	5.03	5.03(M)	
59 1,2-Dibromo-3-Chloropropane	75.00	30.284	30.264	(1.382)	55045	4.66	4.66(M)	
60 1,2,4-Trichlorobenzene	180.00	32.912	32.915	(1.502)	683921	5.10	5.10(M)	
61 Hexachlorobutadiene	225.00	33.597	33.601	(1.533)	937458	5.83	5.83(M)	
62 Naphthalene _	128.00	33.814	33.818	(1.543)	511463	4.65	4.65(M)	
63 1,2,3-Trichlorobenzene	180.00	34.814	34.818	(1.588)	564754	5.18	5.18(M)	

(AU) 8/24/95

QC Flag Legend

- Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE245-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECB821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/21/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE245-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECB821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/21/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-01-5	cis-1,3-Dichloropropene		S
10061-02-6	trans-1,3-Dichloropropene		S
67-64-1	Acetone	2	U

S: SPIKE COMPOUND

FORM 1 V-2

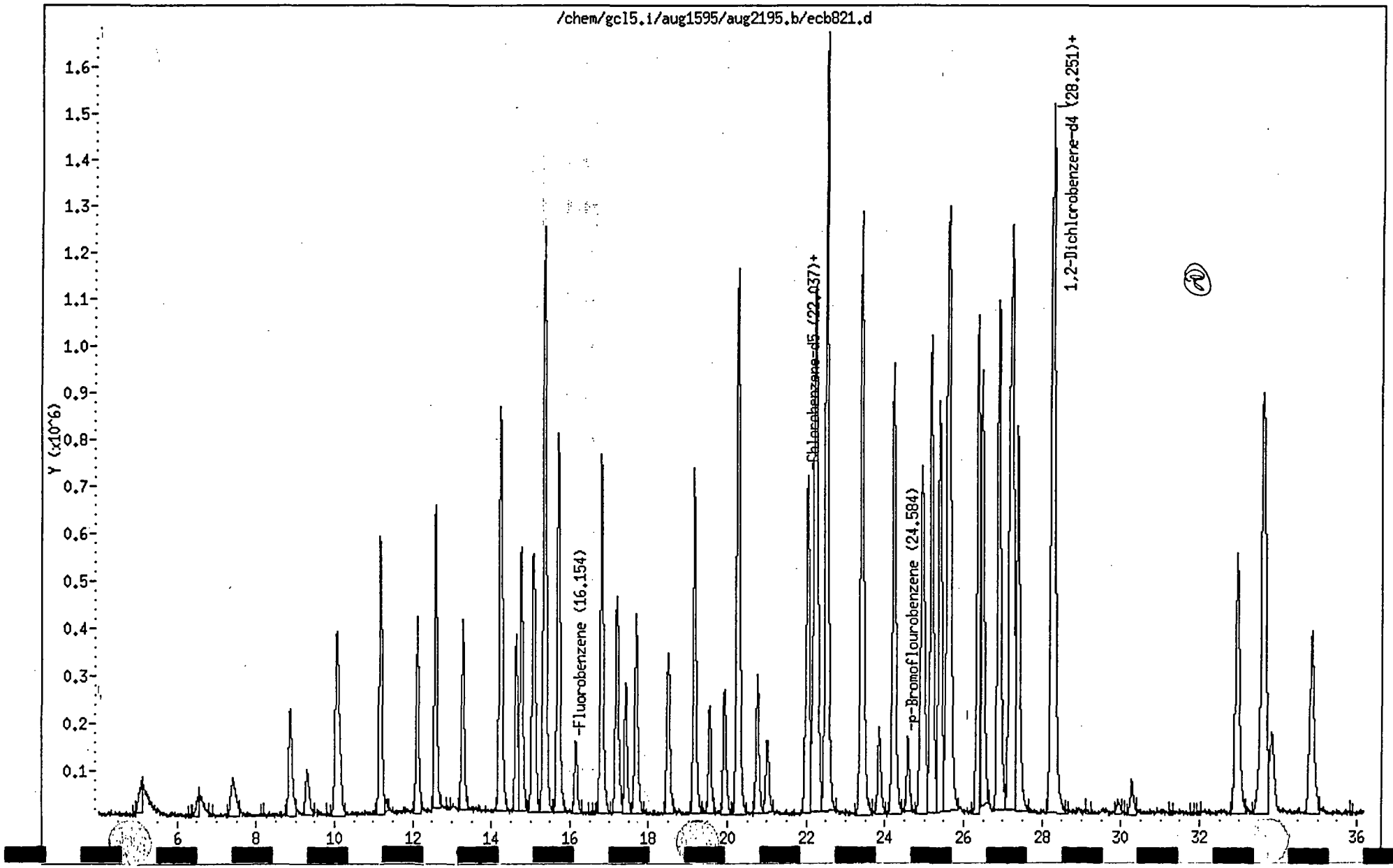
12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195.b/ecb821.d
Date : 21-AUG-1995 14:56
Client ID:
Sample Info: 95GVE245-MB1S EAA821

Column phase:

Instrument: gcl5.i

Operator:
Column diameter: 2.00



Data File: /chem/gcl5.i/aug1595/aug2195.b/ecb821.d
Report Date: 22-Aug-1995 13:27

Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195.b/ecb821.d ✓
Lab Smp Id:
Inj Date : 21-AUG-1995 14:56
Operator :
Smp Info : 95GVE245-MB1S EAA821 ✓ Inst ID: gcl5.i @
Misc Info : GCL#5,DIL=1,25MLOFW +10ULIS,1ULSS
Comment :
Method : /chem/gcl5.i/aug1595/aug2195.b/524.m ✓
Meth Date : 22-Aug-1995 10:52 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 11:57 Cal File: ebb821.d ✓
Als bottle: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85.00	5.096	5.113 (0.315)	668836	4.98	4.98(M)
2 Chloromethane	50.00	6.579	6.540 (0.407)	287559	2.94	2.94(M)
3 Vinyl chloride	62.00	7.425	7.402 (0.459)	415795	4.37	4.37(M)
4 Bromomethane	94.00	8.868	8.861 (0.549)	531464	4.17	4.17(M)
5 Chloroethane	64.00	9.295	9.288 (0.575)	278997	3.76	3.76(M)
6 Trichlorofluoromethane	101.00	10.069	10.062 (0.623)	1021282	4.24	4.24
7 1,1-Dichloroethene	96.00	11.173	11.190 (0.691)	564191	4.67	4.67
8 Methylene chloride	84.00	12.116	12.141 (0.750)	431647	5.13	5.13(M)
9 trans-1,2-Dichloroethene	96.00	12.583	12.617 (0.779)	545072	5.01	5.01
10 1,1-Dichloroethane	63.00	13.276	13.318 (0.821)	965479	4.72	4.72
11 2,2-Dichloropropane	77.00	14.227	14.277 (0.880)	566589	3.64	3.64
12 cis-1,2-Dichloroethene	96.00	14.251	14.285 (0.882)	497131	4.67	4.67
13 Bromochloromethane	128.00	14.646	14.672 (0.906)	232713	4.78	4.78
14 Chloroform	83.00	14.767	14.809 (0.914)	1013805	5.09	5.09
15 1,1,1-Trichloroethane	97.00	15.074	15.115 (0.933)	931742	4.63	4.63(M)
16 1,1-Dichloropropene	75.00	15.348	15.381 (0.950)	857672	4.76	4.76
17 Carbon tetrachloride	117.00	15.372	15.405 (0.951)	897900	4.76	4.76
18 Benzene	78.00	15.702	15.736 (0.972)	1329818	4.82	4.82
19 1,2-Dichloroethane	62.00	15.718	15.752 (0.973)	407768	5.32	5.32
20 Fluorobenzene	95.95	16.162	16.195 (1.000)	312373	1.00	
21 Trichloroethene	130.00	16.798	16.824 (1.039)	677584	4.58	4.58
22 1,2-Dichloropropane	63.00	17.209	17.211 (1.065)	464457	4.83	4.83(M)
23 Dibromomethane	93.00	17.411	17.444 (1.077)	284278	5.20	5.20
24 Bromodichloromethane	83.00	17.677	17.710 (1.094)	723137	4.99	4.99
25 cis-1,3-Dichloropropene	75.00	18.499	18.508 (1.145)	490471	4.52	4.52
26 Toluene	92.00	19.152	19.177 (1.185)	839318	4.43	4.43
27 trans-1,3-Dichloropropene	75.00	19.538	19.548 (1.209)	321335	4.56	4.56
28 1,1,2-Trichloroethane	97.00	19.909	19.935 (1.232)	240373	5.20	5.20(M)
29 Tetrachloroethene	166.00	20.256	20.273 (1.253)	848979	4.54	4.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
30	1,3-Dichloropropane	76.00	20.272	20.273	(1.254)	364048	4.96	4.96(M)	
31	Dibromochloromethane	127.00	20.747	20.765	(1.284)	331563	4.94	4.94	
32	1,2-Dibromoethane	107.00	21.005	21.007	(1.300)	309513	4.85	4.85	
33	Chlorobenzene-d5	117.00	21.981	21.982	(1.000)	214561	1.00		
34	Chlorobenzene	112.00	22.037	22.046	(1.364)	1012306	4.72	4.72	
35	1,1,1,2-Tetrachloroethane	131.00	22.198	22.216	(1.010)	508510	4.98	4.98	
36	Ethylbenzene	106.00	22.247	22.272	(1.012)	520901	4.63	4.63	
37	m,p-Xylene	91.00	22.504	22.514	(1.024)	3020216	9.60	9.60	
38	o-Xylene	91.00	23.399	23.400	(1.065)	1498218	4.96	4.96	
39	Styrene	104.00	23.415	23.425	(1.065)	893467	4.71	4.71	
40	Bromoform	173.00	23.850	23.860	(1.085)	250759	5.13	5.13(M)	
41	Isopropylbenzene	105.00	24.221	24.230	(1.102)	2028165	4.79	4.79	
$ 42	p-Bromoflourobenzene	94.95	24.576	24.585	(1.118)	186034	~~10.32~~	10.32	1.032
43	Bromobenzene	156.00	24.946	24.956	(1.135)	547864	5.10	5.10(M)	
44	1,1,2,2-Tetrachloroethane	83.00	24.906	24.899	(1.133)	306914	5.62	5.62	
45	1,2,3-Trichloropropane	110.00	24.995	25.012	(1.137)	69041	5.55	5.55(M)	
46	n-Propylbenzene	91.00	25.180	25.182	(1.146)	2608263	4.72	4.72	
47	2-Chlorotoluene	91.00	25.390	25.399	(1.155)	1655462	4.90	4.90	
48	1,3,5-Trimethylbenzene	105.00	25.583	25.593	(1.164)	1674551	5.05	5.05	
49	4-Chlorotoluene	91.00	25.648	25.649	(1.167)	1789845	5.16	5.16	
50	tert-Butylbenzene	119.00	26.365	26.374	(1.199)	1776083	4.81	4.81	
51	1,2,4-Trimethylbenzene	105.00	26.478	26.487	(1.205)	1581520	4.80	4.80	
52	sec-Butylbenzene	105.00	26.897	26.898	(1.224)	2620332	4.89	4.89	
53	1,3-Dichlorobenzene	146.00	27.171	27.164	(1.236)	1019286	5.02	5.02	
54	p-Isopropyltoluene	119.00	27.243	27.245	(1.239)	1960776	4.53	4.53(M)	
55	1,4-Dichlorobenzene	146.00	27.372	27.382	(1.245)	1033637	5.23	5.23(M)	
$ 56	1,2-Dichlorobenzene-d4	152.00	28.227	28.244	(1.284)	111276	~~11.50~~	11.50(M)	1.150
57	n-Butylbenzene	91.00	28.243	28.236	(1.285)	2100300	4.65	4.65	
58	1,2-Dichlorobenzene	146.00	28.283	28.284	(1.287)	850346	5.35	5.35	
59	1,2-Dibromo-3-Chloropropane	75.00	30.298	30.251	(1.378)	55644	5.82	5.82(M)	
60	1,2,4-Trichlorobenzene	180.00	32.933	32.919	(1.498)	724055	5.42	5.42(M)	
61	Hexachlorobutadiene	225.00	33.602	33.604	(1.529)	904261	4.44	4.44(M)	
62	Naphthalene _	128.00	33.836	33.805	(1.539)	530152	5.44	5.44	
63	1,2,3-Trichlorobenzene	180.00	34.819	34.805	(1.584)	580500	5.75	5.75(M)	

8/24/95

QC Flag Legend

M - Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE246-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECG821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE246-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECG821

Level: (low/med) LOW

Date Received: 08/21/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-01-5	cis-1,3-Dichloropropene		S
10061-02-6	trans-1,3-Dichloropropene		S
67-64-1	Acetone	6	B

S: SPIKE COMPOUND

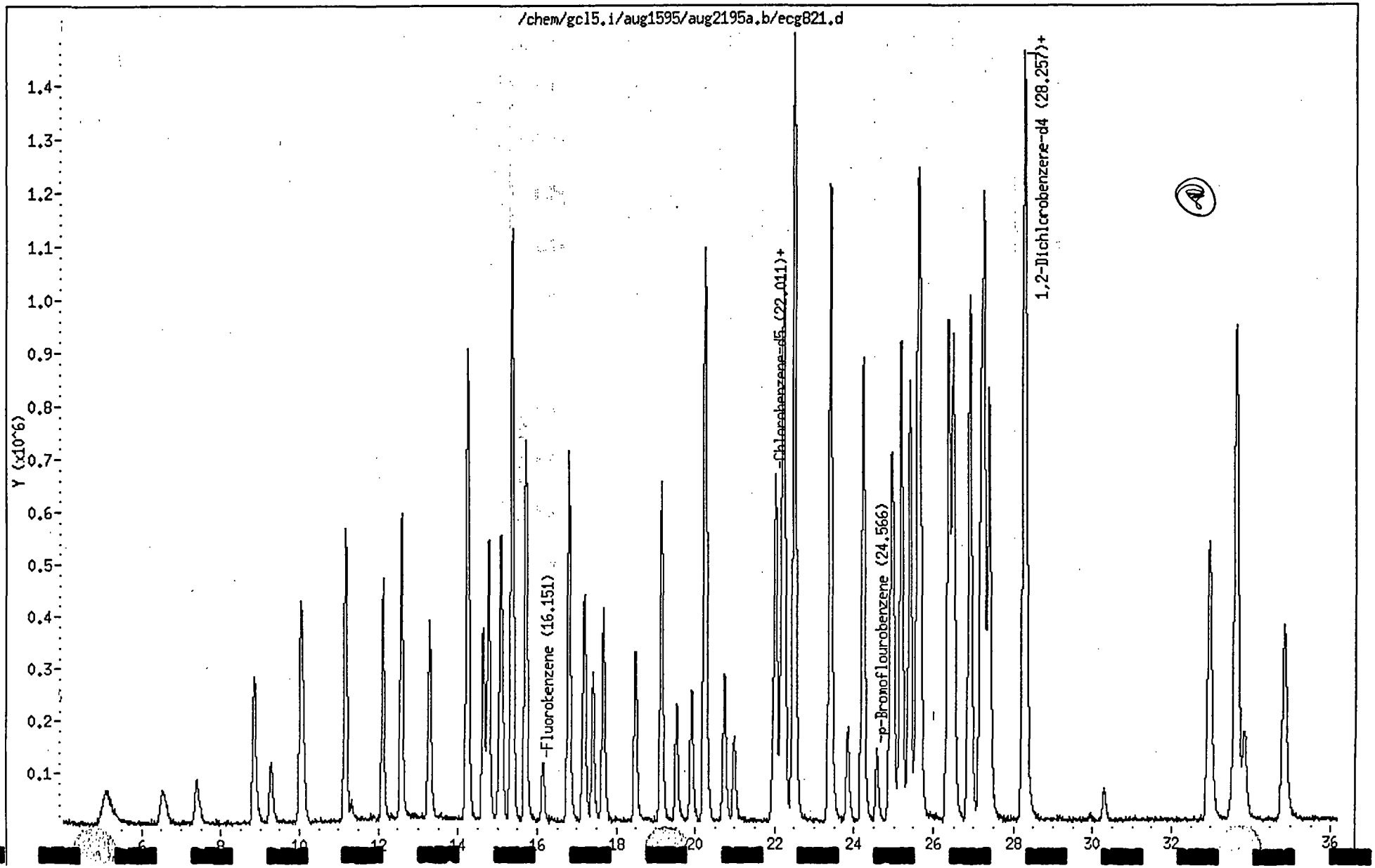
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl5.i/aug1595/aug2195a.b/ecg821.d
Date : 22-AUG-1995 00:13
Client ID:
Sample Info: 95GVE246-MB1S EAB821

Instrument: gcl5.i
Operator:
Column diameter: 2.00

Column phase:



Data File: /chem/gcl5.i/aug1595/aug2195a.b/ecg821.d
Report Date: 22-Aug-1995 15:56

Gulf Coast

METHOD 524

Data file : /chem/gcl5.i/aug1595/aug2195a.b/ecg821.d ✓
Lab Smp Id:
Inj Date : 22-AUG-1995 00:13
Operator : Inst ID: gcl5.i
Smp Info : 95GVE246-MB1S EAB821 ✓
Misc Info : GCL#5,DIL=1, 25MLOFW +95GVE246-MB1S EAB821 (2)
Comment :
Method : /chem/gcl5.i/aug1595/aug2195a.b/524.m ✓
Meth Date : 22-Aug-1995 15:44 naranjoe Quant Type: ISTD
Cal Date : 21-AUG-1995 21:55 Cal File: ebc821.d ✓
Ans bottle: 12 QC Sample: BLANK
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
Dichlorodifluoromethane	85.00	5.142	5.094	(0.318)	539709	4.99	4.99(M)
2 Chloromethane	50.00	6.504	6.521	(0.402)	386991	5.36	5.36(M)
3 Vinyl chloride	62.00	7.407	7.391	(0.458)	389171	5.37	5.37(M)
4 Bromomethane	94.00	8.825	8.842	(0.546)	605070	5.26	5.26(M)
5 Chloroethane	64.00	9.269	9.269	(0.574)	312632	5.29	5.29(M)
6 Trichlorofluoromethane	101.00	10.050	10.026	(0.622)	1112308	5.48	5.48(M)
7 1,1-Dichloroethene	96.00	11.171	11.163	(0.691)	517239	5.38	5.38(M)
80 Acetone	43.00	11.324	11.324	(0.701)	101235	5.51	5.51(M)
8 Methylene chloride	84.00	12.097	12.098	(0.749)	471931	6.53	6.53(M) cal pumbk
9 trans-1,2-Dichloroethene	96.00	12.581	12.565	(0.779)	501076	5.41	5.41(M)
10 1,1-Dichloroethane	63.00	13.274	13.266	(0.821)	889039	5.45	5.45(M)
11 2,2-Dichloropropane	77.00	14.225	14.209	(0.880)	640048	5.17	5.17(M)
12 cis-1,2-Dichloroethene	96.00	14.233	14.225	(0.881)	486858	5.45	5.45(M)
13 Bromochloromethane	128.00	14.644	14.628	(0.906)	235301	4.89	4.89(M)
14 Chloroform	83.00	14.765	14.757	(0.914)	958497	5.34	5.34(M)
15 1,1,1-Trichloroethane	97.00	15.071	15.072	(0.933)	896325	5.23	5.23(M)
16 1,1-Dichloropropene	75.00	15.337	15.322	(0.949)	751560	5.27	5.27(M)
17 Carbon tetrachloride	117.00	15.362	15.346	(0.951)	855702	5.17	5.17(M)
18 Benzene	78.00	15.692	15.684	(0.971)	1173712	5.40	5.40(M)
19 1,2-Dichloroethane	62.00	15.716	15.708	(0.973)	409106	4.76	4.76(M)
20 Fluorobenzene	95.95	16.159	16.136	(1.000)	248568	1.00	(M)
21 Trichloroethene	130.00	16.788	16.788	(1.039)	615069	5.29	5.29(M)
22 1,2-Dichloropropane	63.00	17.191	17.175	(1.064)	420994	5.15	5.15(M)
23 Dibromomethane	93.00	17.401	17.401	(1.077)	274224	4.58	4.58(M)
24 Bromodichloromethane	83.00	17.675	17.659	(1.094)	702544	5.09	5.09(M)
cis-1,3-Dichloropropene	75.00	18.489	18.473	(1.144)	461699	4.67	4.67(M)
26 Toluene	92.00	19.141	19.134	(1.185)	767238	5.29	5.29(M)
27 trans-1,3-Dichloropropene	75.00	19.520	19.521	(1.208)	340226	4.72	4.72(M)
28 1,1,2-Trichloroethane	97.00	19.907	19.899	(1.232)	228555	5.05	5.05(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
29 Tetrachloroethene	166.00	20.230	20.238	(1.252)	822138	5.45	5.45 (M)	
30 1,3-Dichloropropane	76.00	20.238	20.246	(1.252)	362938	5.00	5.00 (M)	
31 Dibromochloromethane	127.00	20.721	20.729	(1.282)	329846	4.68	4.68 (M)	
32 1,2-Dibromoethane	107.00	20.979	20.979	(1.298)	342053	4.93	4.93 (M)	
33 Chlorobenzene-d5	117.00	21.946	21.946	(1.000)	175385	1.00	(M)	
34 Chlorobenzene	112.00	22.011	22.011	(0.000)	970147	5.07	5.07 (M)	
35 1,1,1,2-Tetrachloroethane	131.00	22.180	22.172	(1.011)	502776	5.12	5.12 (M)	
36 Ethylbenzene	106.00	22.228	22.229	(1.013)	458347	5.54	5.54 (M)	
37 m,p-Xylene	91.00	22.478	22.486	(1.024)	2686549	11.32	11.32 (M)	
38 o-Xylene	91.00	23.373	23.381	(1.065)	1374859	5.57	5.57 (M)	
39 Styrene	104.00	23.397	23.397	(1.066)	842002	5.03	5.03 (M)	
40 Bromoform	173.00	23.832	23.832	(1.086)	256348	4.67	4.67 (M)	
41 Isopropylbenzene	105.00	24.211	24.203	(1.103)	1885117	5.50	5.50 (M)	
42 p-Bromoflourobenzene	94.95	24.574	24.558	(1.120)	162286	~~9.67~~	9.67 (M)	0.967
43 Bromobenzene	156.00	24.936	24.928	(1.136)	533668	5.48	5.48 (M)	
44 1,1,2,2-Tetrachloroethane	83.00	24.888	24.872	(1.134)	309833	4.90	4.90 (M)	
45 1,2,3-Trichloropropane	110.00	25.001	24.985	(1.139)	67033	4.59	4.59 (M)	
46 n-Propylbenzene	91.00	25.170	25.162	(1.147)	2128700	4.78	4.78 (M)	
47 2-Chlorotoluene	91.00	25.388	25.372	(1.157)	1284106	4.71	4.71 (M)	
48 1,3,5-Trimethylbenzene	105.00	25.581	25.581	(1.166)	1574617	5.42	5.42 (M)	
49 4-Chlorotoluene	91.00	25.629	25.622	(1.168)	1457139	5.23	5.23 (M)	
50 tert-Butylbenzene	119.00	26.363	26.355	(1.201)	1666030	5.67	5.67 (M)	8/22/95
51 1,2,4-Trimethylbenzene	105.00	26.476	26.460	(1.206)	1536756	5.43	5.43 (M)	
52 sec-Butylbenzene	105.00	26.895	26.879	(1.225)	2366740	5.73	5.73 (M)	
53 1,3-Dichlorobenzene	146.00	27.169	27.153	(1.238)	968139	5.22	5.22 (M)	
54 p-Isopropyltoluene	119.00	27.241	27.225	(1.241)	1928942	5.63	5.63 (M)	
55 1,4-Dichlorobenzene	146.00	27.378	27.362	(1.248)	957616	5.04	5.04 (M)	
56 1,2-Dichlorobenzene-d4	152.00	28.241	28.217	(1.287)	104973	~~9.88~~	9.88 (M)	0.988
57 n-Butylbenzene	91.00	28.249	28.225	(1.287)	2017117	6.00	6.00 (M)	
58 1,2-Dichlorobenzene	146.00	28.289	28.265	(1.289)	808191	5.29	5.29 (M)	
59 1,2-Dibromo-3-Chloropropane	75.00	30.304	30.264	(1.381)	56802	4.93	4.93 (M)	
60 1,2,4-Trichlorobenzene	180.00	32.964	32.915	(1.502)	686073	5.26	5.26 (M)	
61 Hexachlorobutadiene	225.00	33.624	33.601	(1.532)	979961	6.25	~~6.25 (M)~~	circle per M GC narrate
62 Naphthalene	128.00	33.842	33.818	(1.542)	521241	4.86	4.86 (M)	
63 1,2,3-Trichlorobenzene	180.00	34.849	34.818	(1.588)	573006	5.40	5.40 (M)	

QC Flag Legend

M - Compound response manually integrated.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE247-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECD822

Level: (low/med) LOW

Date Received: 08/22/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
75-71-8	Dichlorodifluoromethane		S
74-87-3	Chloromethane		S
74-83-9	Bromomethane		S
75-01-4	Vinyl chloride		S
75-00-3	Chloroethane		S
75-09-2	Methylene Chloride		S
75-69-4	Trichlorofluoromethane		S
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		S
156-59-2	cis-1,2-Dichloroethene		S
594-20-7	2,2-Dichloropropane		S
156-60-5	trans-1,2-Dichloroethene		S
67-66-3	Chloroform		S
74-97-5	Bromochloromethane		S
107-06-2	1,2-Dichloroethane		S
71-55-6	1,1,1-Trichloroethane		S
56-23-5	Carbon Tetrachloride		S
563-58-6	1,1-Dichloropropene		S
75-27-4	Bromodichloromethane		S
74-95-3	Dibromomethane		S
78-87-5	1,2-Dichloropropane		S
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane		S
106-93-4	1,2-Dibromoethane		S
79-00-5	1,1,2-Trichloroethane		S
71-43-2	Benzene		S
142-28-9	1,3-Dichloropropane		S
75-25-2	Bromoform		S
127-18-4	Tetrachloroethene		S
79-34-5	1,1,2,2-Tetrachloroethane		S
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
630-20-6	1,1,1,2-Tetrachloroethane		S
100-41-4	Ethylbenzene		S

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 00000-000-000-0

Client: TAT-Pier Drum Site

Matrix: WATER

Lab Sample ID: 95GVE247-MB1 BS

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: ECD822

Level: (low/med) LOW

Date Received: 08/22/95

% Moisture: not dec. _____

Date Analyzed: 08/22/95

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
100-42-5	Styrene		S
000-00-0	m/p-Xylene		S
95-47-6	o-Xylene		S
108-86-1	Bromobenzene		S
96-18-4	1,2,3-Trichloropropane		S
98-82-8	Isopropylbenzene		S
103-65-1	n-Propylbenzene		S
95-49-8	2-Chlorotoluene		S
106-43-4	4-Chlorotoluene		S
108-67-8	1,3,5-Trimethylbenzene		S
98-06-6	tert-Butylbenzene		S
95-63-6	1,2,4-Trimethylbenzene		S
135-98-8	sec-Butylbenzene		S
99-87-6	p-Isopropyltoluene		S
541-73-1	1,3-Dichlorobenzene		S
106-46-7	1,4-Dichlorobenzene		S
95-50-1	1,2-Dichlorobenzene		S
104-51-8	n-Butylbenzene		S
96-12-8	1,2-Dibromo-3-chloropropane		S
120-82-1	1,2,4-Trichlorobenzene		S
87-68-3	Hexachlorobutadiene		S
91-20-3	Naphthalene		S
87-61-6	1,2,3-Trichlorobenzene		S
10061-01-5	cis-1,3-Dichloropropene		S
10061-02-6	trans-1,3-Dichloropropene		S
67-64-1	Acetone	5	B

S: SPIKE COMPOUND

FORM 1 V-2

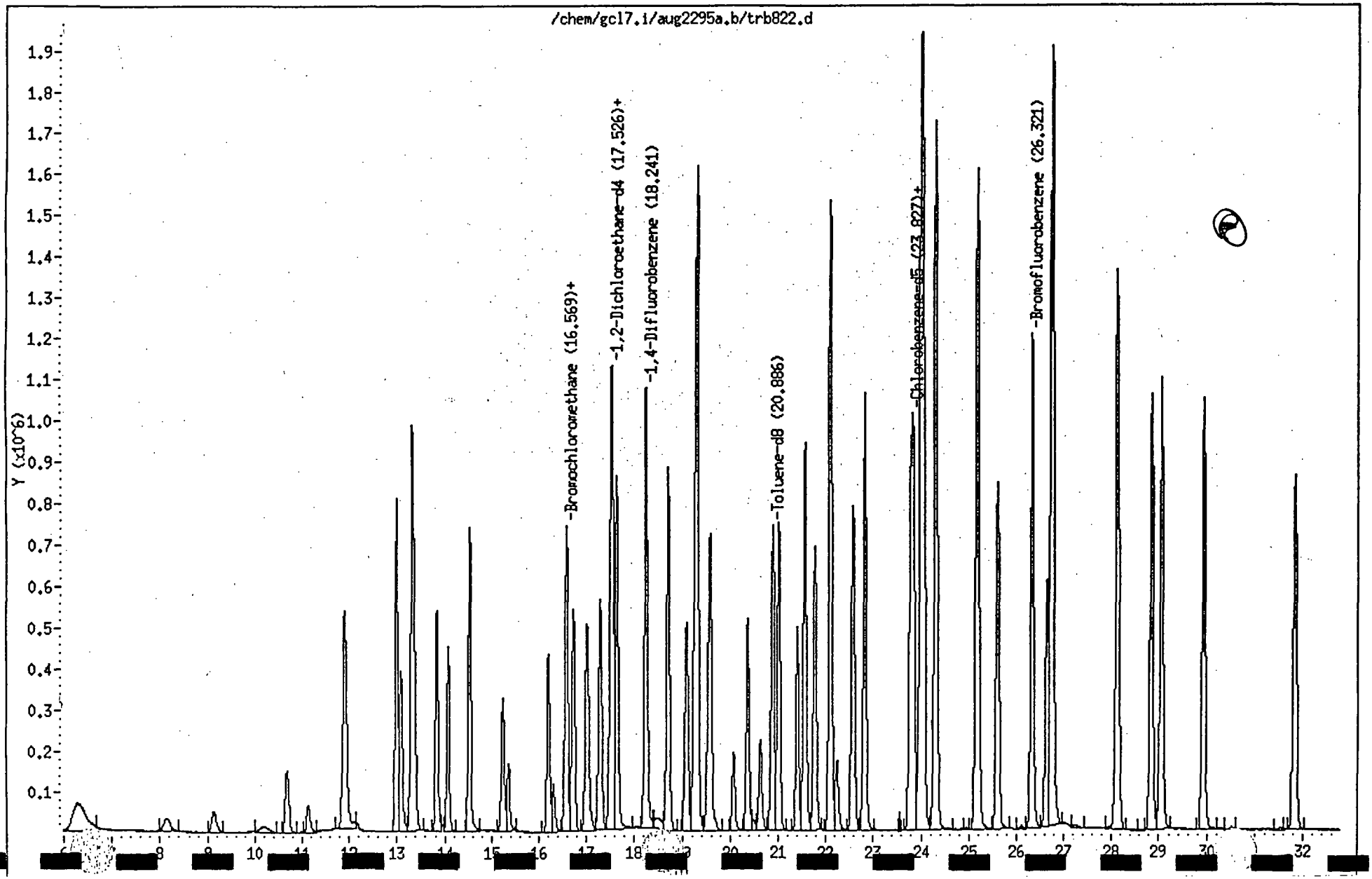
12/88 Rev.

Data File: /chem/gcl7.i/aug2295a.b/trb822.d
Date : 22-AUG-1995 19:23
Client ID:
Sample Info: 50 STD TQC822

Instrument: gcl3.i

Operator:
Column diameter: 2.00

Column phase:



Gulf Coast

METHOD 524

ata file : /chem/gcl5.i/aug1595/aug2295.b/ecd822.d ✓
ab Smp Id:
nj Date : 22-AUG-1995 23:07
perator :
Smp Info : 95GVE247-MB1S EAB822 Inst ID: gcl5.i
isc Info : GCL#5,DIL=1, 25MLOFW 95GVE247-MB1S EAB822
omment :
ethod : /chem/gcl5.i/aug1595/aug2295.b/524.m ✓
eth Date : 22-Aug-1995 20:00 kobusm Quant Type: ISTD
al Date : 22-AUG-1995 18:06 Cal File: eba822.d ✓
s bottle: 10
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
arget Version: 3.12

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85.00	5.122	5.097	(0.317)	460055	4.99	4.99(M)
2 Chloromethane	50.00	6.525	6.515	(0.404)	210703	3.66	3.66(M)
3 Vinyl chloride	62.00	7.403	7.402	(0.458)	285739	4.72	4.72(M)
4 Bromomethane	94.00	8.846	8.852	(0.548)	361754	3.72	3.72(M)
5 Chloroethane	64.00	9.273	9.271	(0.574)	196729	3.94	3.94(M)
6 Trichlorofluoromethane	101.00	10.047	10.045	(0.622)	777619	4.34	4.34(M)
7 1,1-Dichloroethene	96.00	11.167	11.182	(0.691)	407215	4.70	4.70
80 Acetone	43.00	11.344	11.351	(0.702)	65282	5.19	5.19(M)
8 Methylene chloride	84.00	12.110	12.116	(0.750)	302349	4.51	4.51
9 trans-1,2-Dichloroethene	96.00	12.585	12.592	(0.779)	382558	4.63	4.63
10 1,1-Dichloroethane	63.00	13.278	13.293	(0.822)	672118	4.50	4.50
11 2,2-Dichloropropane	77.00	14.229	14.236	(0.881)	540761	5.16	5.16
12 cis-1,2-Dichloroethene	96.00	14.238	14.244	(0.881)	368995	4.70	4.70
13 Bromochloromethane	128.00	14.640	14.631	(0.906)	177737	4.32	4.32
14 Chloroform	83.00	14.769	14.768	(0.914)	713648	4.69	4.69
15 1,1,1-Trichloroethane	97.00	15.084	15.074	(0.934)	695493	4.68	4.68
16 1,1-Dichloropropene	75.00	15.350	15.340	(0.950)	606949	4.87	4.87
17 Carbon tetrachloride	117.00	15.374	15.356	(0.952)	702868	5.05	5.05
18 Benzene	78.00	15.688	15.695	(0.971)	876246	4.54	4.54
19 1,2-Dichloroethane	62.00	15.704	15.719	(0.972)	297760	4.30	4.30
20 Fluorobenzene	95.95	16.156	16.154	(1.000)	209105	1.00	
21 Trichloroethene	130.00	16.792	16.799	(1.039)	479554	4.78	4.78
22 1,2-Dichloropropane	63.00	17.187	17.186	(1.064)	302781	4.48	4.48
23 Dibromomethane	93.00	17.413	17.404	(1.078)	201350	4.16	4.16
Bromodichloromethane	83.00	17.671	17.678	(1.094)	517604	4.52	4.52
cis-1,3-Dichloropropene	75.00	18.485	18.492	(1.144)	339738	4.17	4.17
Toluene	92.00	19.138	19.144	(1.185)	581613	4.77	4.77
27 trans-1,3-Dichloropropene	75.00	19.533	19.539	(1.209)	227519	4.11	4.11
28 1,1,2-Trichloroethane	97.00	19.911	19.918	(1.232)	171319	4.43	4.43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
29 Tetrachloroethene	166.00	20.250	20.257	(1.253)	645429	4.94	4.94	
30 1,3-Dichloropropane	76.00	20.250	20.257	(1.253)	271510	4.49	4.49	
31 Dibromochloromethane	127.00	20.733	20.748	(1.283)	245186	4.41	4.41	
32 1,2-Dibromoethane	107.00	20.991	20.998	(1.299)	244937	4.34	4.34	
33 Chlorobenzene-d5	117.00	21.967	21.965	(1.000)	142604	1.00	(M)	
34 Chlorobenzene	112.00	22.015	22.030	(1.363)	744355	4.66	4.66	
35 1,1,1,2-Tetrachloroethane	131.00	22.184	22.199	(1.000)	386221	4.73	4.73	
36 Ethylbenzene	106.00	22.249	22.255	(1.013)	355186	4.55	4.55 (M)	
37 m,p-Xylene	91.00	22.499	22.497	(1.014)	2134148	9.59	9.59	
38 o-Xylene	91.00	23.377	23.392	(1.054)	1037720	4.75	4.75 (M)	
39 Styrene	104.00	23.401	23.416	(1.055)	644761	4.60	4.60	
40 Bromoform	173.00	23.836	23.851	(1.074)	200049	4.42	4.42 (M)	
41 Isopropylbenzene	105.00	24.215	24.222	(1.092)	1485897	4.92	4.92	
42 p-Bromoflourobenzene	94.95	24.570	24.585	(1.108)	113036	~~8.69~~	8.69	0.869
43 Bromobenzene	156.00	24.933	24.947	(1.124)	414226	4.77	4.77	
44 1,1,2,2-Tetrachloroethane	83.00	24.860	24.883	(1.121)	227632	4.46	4.46 (M)	
45 1,2,3-Trichloropropane	110.00	24.989	24.996	(1.126)	51207	4.18	4.18 (M)	
46 n-Propylbenzene	91.00	25.158	25.181	(1.134)	1904783	4.90	4.90	
47 2-Chlorotoluene	91.00	25.376	25.390	(1.144)	1220817	5.06	5.06	
48 1,3,5-Trimethylbenzene	105.00	25.577	25.584	(1.153)	1256791	4.80	4.80	
4-Chlorotoluene	91.00	25.626	25.640	(1.155)	1156157	4.50	4.50 (M)	
tert-Butylbenzene	119.00	26.351	26.358	(1.188)	1307207	4.79	4.79	
51 1,2,4-Trimethylbenzene	105.00	26.464	26.479	(1.193)	1192332	4.76	4.76	
52 sec-Butylbenzene	105.00	26.875	26.898	(1.211)	1946803	5.02	5.02	
53 1,3-Dichlorobenzene	146.00	27.149	27.172	(1.224)	800295	4.96	4.96	
54 p-Isopropyltoluene	119.00	27.229	27.244	(1.227)	1477598	4.71	4.71	
55 1,4-Dichlorobenzene	146.00	27.358	27.381	(1.233)	774943	5.75	5.75	
56 1,2-Dichlorobenzene-d4	152.00	28.221	28.227	(1.272)	76384	~~8.09~~	8.09 (M)	0.809
57 n-Butylbenzene	91.00	28.221	28.244	(1.272)	1596437	4.89	4.89	
58 1,2-Dichlorobenzene	146.00	28.277	28.284	(1.275)	651036	4.67	4.67	
59 1,2-Dibromo-3-Chloropropane	75.00	30.244	30.299	(1.363)	40198	4.08	4.08 (M)	
60 1,2,4-Trichlorobenzene	180.00	32.911	32.934	(1.484)	546525	4.70	4.70 (M)	
61 Hexachlorobutadiene	225.00	33.588	33.603	(1.514)	801810	5.09	5.09 (M)	
62 Naphthalene	128.00	33.798	33.821	(1.524)	402722	4.54	4.54 (M)	
63 1,2,3-Trichlorobenzene	180.00	34.789	34.828	(1.568)	423106	4.58	4.58 (M)	

8/24/95

QC Flag Legend

M - Compound response manually integrated.

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 8/19/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
1011	AA819	BFBTune		Tune	1	5ml OFW							1ul 532	NA	[illegible]
1052	BA819	Std 10		Std	2	25ml OFW			607 608				10ul IS + 1ul SS + 10ul 606		
NO DATA FILE	BB819	STD 1			3										
1304	BC819	STD 1			4										
1348	BD819	STD 10			5										
1433	BE819	STD 20			1										
1536	BF819	STD 1			2										[illegible]
~~1813~~ 8/18/95	BG819	STD 20			3										
1813	CA819	95GVE244 Blank	-MB1		3										
1922	CB819	/	MB1S		4								10ul IS 1.0ul SS + 5ul # 603		
SYSTEM HUNG NO DATA	XDG 01	9508G407	001		5	25ml SMP							+ 10ul IS 1ul SS		
↓	CC819	↓	MB1T		6	25ml OFW							+ 10ul #603		
8/21/95 828	AA821	BFBTune		BFBTune	1	5ml OFW			607 608				~~+25~~ 8/21/95 +1ul BFB		[illegible]
933	BA821	STD 10		STD 10	2	25ml OFW							10ul IS, 1ul SS + 10ul 603		

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WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
10:20am 1057	21 Aug 1995 CA821	Kathy Nelson 95GVE245	MB1	Tome Check Blank	4	2.5ml OFW			607 608				10ml IS, AS/SS	NA	[illegible]
1157	BB821	Acetone STD		Acetone STD	1								10ml SS+1ml IS + 2.5ml 611		
1252	CC821	95GVE245	MB1	Blank	2										
1357	CD821		MB1	Blank	2										
1456	CB821		MB1S	Spike	3										
1553	EXDG02	~~95G~~ 95086607	001		9	5ml smp									
1638	EXDI01	95086630	002		10	2.5ml smp		[illegible] 2							
1721	EXDG03	95086607	001		2	2.5ml smp		[illegible] 10							
1805	EXDI06	95086630	001		11	2.5ml		[illegible] 10							
6:07pm 1847	21 Aug 1995 XDI02	Kathy Nelson	003	Tome Check	12	2.5ml		10							
1929	XDI03		004		13	2.5ml		10							
2011	XDI04		005		14	2.5ml		10							
MA	XDI05		006		15	1ml smp		[illegible] 25							
[illegible]	XDI07		001S		16	2.5ml smp		10							

Analyst Signature/Date [illegible] 8/21/95

Reviewed by Signature/Date [illegible] 8/21/[illegible]

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 8/11	FILE NAME	RFW NUMBER YYMM G XXX | XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	PREPARATION INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
MA	XOI08	9506B630 | 001T		1	2.5 5ml		10					KLA	
2114	AB821	BFB TK	TUNE	9	5ml						+ ISTD 8260		
2155	BC821	Std 10 Aroc	Std	10	25ml			607 608			1000 Cal 10µl 25ml +S SS 602 611		
2310	CF821	95BVE246 | MB 1	Blank	11									
0013	CG821	| MB 13	Spike	12							+ 5ml 603		
0057	XOI09	9506B630 | 001		13	25ml 5ml								
134	XOI10	| 002		14	0.5ml		50						
222	XOI11	P03		15	25ml 5ml								
306	XOI12	| 004		16									
349	XOI13	| 005		1									
431	XOI05	| 006		2	5ml 5ml		5						
513	XOI07	| 007		3	25ml 5ml						+ 5ml 603		
556	XOI08	| 001T		4									
710	CH821	95BVE246 | MB1T	Blk Spk	5	25ml 5ml								

Analyst Signature/Date 8/12/95

Reviewed by Signature/Date 8/22/95

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 8/22/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
836	AA822	BFBTune		Tune	1	5ml OFW							1µl 532 Continuation Run	NA	[illegible]
912	AB822				1	↓							↓		[illegible]
1002	BA822	STD10		STD10	2	25ml OFW			607 608				10ml IS + 1ml SS + 10ml 606 + 2.5ml 611		
1123	CA822	95GVE247	MB1		3										
Lost data file system hung	CB822		MB1		3										
1324	CB822 ~~CB822~~	95GVE247	MB1		3										
Did not run	CC822		MB15		4								+5ml 524 [illegible] #603		[illegible]
1647	AA822	BFBTune			14										
6:42pm 1806	22 Aug 1995 BA822	Kathy Nelson 10STD		Some check STD + acetone	15				607 608				+10ul IS, 1ul SS + 10ul 606 + 2.5ul 611		
1914	CA822	95GVE247	MB1	Blnk	16								+10ul IS, 1.0ul SS TICs-redo		
2106	CB822		MB1		9								SO redo		
2208	CC822				9								SO use 1st one		
0014	XDI14	9508G630	006		9 ~~10~~ 8/22/95	1ml		25							
102	XDP01	9508G632	004		10	25ml									

Analyst Signature/Date [illegible] 8/22/95 Reviewed by Signature/Date [illegible] 8/27/95 Page 114

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WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 8/23/91	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
145	XDP04	9508G634	001		11	25 ml			607 608					NA	Erasmus
228	XDP05		001S		12								+5ul 5&4sph		
311	XDP06		001T		13										
351	XDI15	9508G630	006		14	1 ml		25							
802	AA823	BFB Tune		BFB Tune	1										
838	BA823	STD10													
SYSTEM HUNG NO DATA	CA823	95GVG248	MB1												
	CA823		MB1												
	CB823														

Analyst Signature/Date

Reviewed by Signature/Date

Page

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

190

PROJ. NO. 1359

PROJECT NAME PIER DRUM SITE BRADENTON FLORIDA

SAMPLERS (Signature) JMRM

Circle/add Parameters Desired ( ) - Indicates Separate Containers

Water/Wastewater | Soil/Sed/Sldg | Waste | Misc

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	(Gal G (ext org. Pest) (EP) (herb)	40 ml vial (VOA)	250 ml G (TOX)	P (Bod, TSS, Cl, Fl, So4, etc)	ILG (pheno) (O&G) (pest)	ILP (met, hard) (Toc, COD, N, P, etc)	0.5-ILP (S⁻)	½ gal or ILP (CN)	8 oz G (ext org. pest. herb) (met) (EP)	4 oz G (VOA)	P or G (CN, S⁻, N, P, COD, etc)	8 oz G (ext org. pest. herb, VOA)	8 oz G (EP) (met, CN, S⁻, FP) (FP, BTU)	STYRENE, ACETONE	REMARKS/TAG NUMBERS
MW-ND2	8/16/95	1820		X	MW-ND2 GC	4		3				1								X	T4 - 25955, 56, 57, 58
MW-E2	8/16	1755		X	MW-E2	4		3				1								X	T4 - 25971, 72, 73, 74
MW-S2	8/16	1740		X	MW-S2	4		3				1								X	T4 - 25967, 68, 69, 70
MW-W2	8/16	1755		X	MW-W2	4		3				1								X	T4 - 25963, 64, 65, 66
MW-N2	8/16	1830		X	MW-N2	4		3				1								X	T4 - 25951, 52, 53, 54
EP-2	8/16	1845		X	EP-2	4		3				1								X	T4 - 25975, 76, 77, 78
~~TB 2~~	~~8/16~~	~~0900~~		~~X~~	~~TB~~ JMRM	~~4~~		~~3~~				~~1~~								~~X~~	~~T4 - 25959, 60, 61, 62~~

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
		1100 8/18/95 Rae Ann Minter				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory, Pink copy retained by laboratory; Yellow copy retained by samplers; Blue copy extra copy as needed.

T4-2382

APPENDIX F

SEPTEMBER 5, 1995 ANALYTICAL REPORT

(150 Sheets)

*MISSING PAGES 54,56 AND 72

WESTON® MANAGERS DESIGNERS/CONSULTANTS
Building 300, Suite 325
1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208
404-352-4147 • Fax 404-352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: FILE

FROM: Paula C. MacLaren
Analytical Coordinator

THRU: W. Scott Butterfield
TATL, Region IV

SUBJECT: Pier Drum Site Analytical Data Part III
TDD# 04-9508-L005-0536

DATE: 05 September 1995

Weston Environmental Metrics, Inc. laboratory analyzed 24 soil samples taken at the Pier Drum Site on 16 August 1995 for the following parameters:

volatiles
RCRA metals
cobalt

The analytical report was received within the required 2-week time period.

All sample analysis hold times were met.

The laboratory blank showed some acetone contamination of a concentration similar to sample results. The actual value has been presented in the attached data summary.

A volatile matrix spike/ matrix spike duplicate was performed on soil sample SP-SE. All component percent recoveries were within the QA/QC recommendation of 80% to 120%. Some matrix interferences were experienced on samples E0S25, E25S125, E25S75, E50S25, E50S50 and E50S125. The surrogate compound 4-bromofluorobenzene usually showed a recovery

slightly lower than the method QC recommendation. The surrogate compound, toluene-d8, usually showed an elevated recovery. All of these samples were reanalyzed yielding similar results. Both sets of analysis are reported on the attached data summary.

A metals matrix spike was performed on soil samples SP-SE and E50S75. All percent recoveries were within the QA/QC guideline of 80% to 120%. The laboratory control sample showed all percent recoveries within the 80% to 120% range except for silver (74.1%). Analytical precision was within the QA/QC recommendation of 20% relative percent difference (RPD).

A summary of the sample data can be found a the following pages.

cc. Jim Webster
John Wright

PIER DRUM SITE
ANALYTICAL DATA

SOIL SAMPLES

VOLATILES (ug/kg)

SAMPLE ID	SP-SE	SP-SW	SP-N	S75E100	E75S125
Acetone	ND	ND	ND	ND	ND

RCRA METALS/ COBALT (mg/kg)

Arsenic	ND/0.23	0.61	ND	0.69	ND
Barium	8.0/7.9*	ND	5.0	ND	ND
Cadmium	ND/ND*	ND	ND	ND	ND
Chromium	ND/ND*	ND	ND	ND	ND
Cobalt	ND/ND*	ND	ND	ND	ND
Lead	ND/ND*	ND	ND	ND	ND
Mercury	ND/ND*	ND	ND	ND	ND
Selenium	ND/ND*	ND	ND	ND	ND
Silver	ND/ND*	ND	ND	ND	ND

Notes:
ND - Not detected
B - The compound was present in the laboratory blank
* - Duplicate analysis

PIER DRUM SITE
ANALYTICAL DATA

SOIL SAMPLES

VOLATILES (ug/kg)

SAMPLE ID	E75S100	E75S75	E75S50	E75S25	E0S125
Acetone	28B	26B	22B	ND	21B/25B

RCRA METALS/ COBALT (mg/kg)

Arsenic	0.28	0.39	0.31	ND	ND
Barium	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	8.2
Mercury	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND

Notes: ND - Not detected
B - The compound was present in the laboratory blank

PIER DRUM SITE
ANALYTICAL DATA

SOIL SAMPLES

VOLATILES (ug/kg)

SAMPLE ID	E0S100	E0S75	E0S50	E0S25	E25S125
Acetone	19B	ND	ND	16B/ND	13B/ND

RCRA METALS/ COBALT (mg/kg)

Arsenic	0.30	0.50	0.63	0.34	ND
Barium	ND	ND	8.7	ND	ND
Cadmium	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND
Lead	7.7	ND	18.3	ND	7.2
Mercury	ND	ND	ND	ND	ND
Selenium	0.25	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND

Notes: ND - Not detected
B - The compound was present in the laboratory blank

PIER DRUM SITE
ANALYTICAL DATA

SOIL SAMPLES

VOLATILES (ug/kg)

SAMPLE ID	E25S100	E25S75	E25S50	E25S25	E50S25
Acetone	25B	ND/ND	14B	16B	15B/ND

RCRA METALS/ COBALT (mg/kg)

Arsenic	0.42	0.37	ND	ND	ND
Barium	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND
Lead	ND	7.8	ND	7.2	ND
Mercury	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND

Notes: ND - Not detected
B - The compound was present in the laboratory blank

PIER DRUM SITE
ANALYTICAL DATA

SOIL SAMPLES

VOLATILES (ug/kg)

SAMPLE ID	E50S50	E50S75	E50S100	E50S125	LAB BLANK
Acetone	15B/ND	13B	ND	ND/ND	15

RCRA METALS (mg/kg)

Arsenic	0.39	1.2	0.25	ND	ND
Barium	ND	10.9/8.8*	5.9	ND	ND
Cadmium	ND	ND/ND*	ND	ND	ND
Chromium	ND	4.9/3.3*	ND	ND	ND
Cobalt	ND	ND/ND*	ND	ND	ND
Lead	ND	18.2/14.7*	ND	4.5	ND
Mercury	ND/ND*	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND
Silver	ND	ND/ND*	ND	ND	ND

Notes:
ND - Not detected
B - The compound was present in the laboratory blank
* - Duplicate analysis

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
708-534-5200 • Fax 708-534-5211

August 29, 1995

RECEIVED
AUG 3 1 1995

Ms. Paula MacLaren
Roy F. Weston, Inc.
1575 Northside Dr., NW
Atlanta, GA 30318-4208

RE: TAT-Pier Drum Site
RFW Lot 9508G629

Dear Ms. MacLaren:

Enclosed is the Analytical Report for the Project and RFW Lot Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

Weston Environmental Metrics, Inc.

Eric A. Lang
Project Manager

km

Enclosures

Approved By:

for Michael J. Healy
Vice President/Laboratory Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All 145 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
T	Compound was found in the TCLP extraction blank and the sample
U	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Weston laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character WESTON laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate analyses
RRF	Relative response factor
RT	Retention time
RTW	Retention time widow
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. WESTON code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

Revised 12/09/94

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
SP-SE							
% SOLIDS	001	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
% SOLIDS	001 REP	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
SP-SW							
% SOLIDS	002	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
SP-N							
% SOLIDS	003	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
S75E100							
% SOLIDS	004	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E75S125							
% SOLIDS	005	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E75S100							
% SOLIDS	006	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E75S75							
% SOLIDS	007	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E75S50							
% SOLIDS	008	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E75S25							
% SOLIDS	009	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
E0S125							
% SOLIDS	010	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E0S100							
% SOLIDS	011	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E0S75							
% SOLIDS	012	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E0S50							
% SOLIDS	013	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E0S25							
% SOLIDS	014	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E25S125							
% SOLIDS	015	S	95GTS463	08/16/95	08/18/95	08/21/95	08/21/95
E25S100							
% SOLIDS	016	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E25S75							
% SOLIDS	017	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
% SOLIDS	017 REP	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E25S50							
% SOLIDS	018	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
E25S25							
% SOLIDS	019	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E50S25							
% SOLIDS	020	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E50S50							
% SOLIDS	021	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E50S75							
% SOLIDS	022	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E50S100							
% SOLIDS	023	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
E50S125							
% SOLIDS	024	S	95GTS464	08/16/95	08/18/95	08/21/95	08/21/95
LAB QC:							
% SOLIDS	MB1	W	95GTS463	N/A	N/A	08/21/95	08/21/95
% SOLIDS	MB1	W	95GTS464	N/A	N/A	08/21/95	08/21/95

SIGNATURE Donna J. Stevens DATE 8-23-95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot: 9508G629

Wet Chemistry Methods

% Ash	___SM 2540G
	___ASTM D-3174
	___ASTM D-482
% Water Karl Fisher	___ASTM D-4377-84
% Water Dean Stark	___ASTM D-95-83
% Moisture	___SM 2540G
% Solids	✓SM 2540G
% Volatiles	___SM 2540G
Acidity	___EPA 305.1
	___SM 2310B
Alkalinity	___EPA 310.1
	___EPA 310.2
	___SM 2320B
Ammonia (Dist./Nesslers)	
	___EPA 350.2
	___SM4500-NH_3C
BOD	___EPA 405.1
	___SM 5210B
Bottom Sed & Water	___ASTM D-4007
BTU	___ASTM D-240
Bromide	___EPA 320.1
	___EPA 300.0
Bromine	___EPA 320.1 after bomb
COD High	___HACH 8000
COD Low	___HACH 8000
Chloride	___EPA 325.2
	___EPA 325.3
	___EPA 300.0
	___SM 4500-Cl E
Chlorine (O_2 Bomb)	___ASTM D-808, mod
Chlorine, Residual	___EPA 330.4
	___SM 4500-Cl C
Chromium VI	___SM 3500-Cr D
	___SW846 7196
	_____
Color	___EPA 110.2
	___SM 2120B
Corrosivity, pH	___EPA 150.1
	___SW846 9040
	___SW846 9045
Corrosivity, Langlier	___SM 2330A+B

Cyanide, Amenable	___EPA 335.1
	___SW846 9010A
	___SM 4500-CNG
Cyanide, Free	_____
Cyanide, Reactive	___SW846 7.3.3.2
Cyanide, Total	___EPA 335.2
	___SW846 9010A
	___SM 4500-CNC
	___ILM03.0
Density/Specific Gravity	___SM 2710F
	___ASTM D-1298
Extractable Organic Halogens	___Dohrmann Method
Flashpoint	___SW846 1010
	___ASTM D93
	___ASTM D92
Fluoride	___EPA 340.2
	___SM 4500-F C
Fluorine	___ASTM 3761, mod
Hardness	___SM 2340 B
Heavy Metals	___USP 231
Ignitability	___SW846 Section 7
Iodide (Titrimetric)	___EPA 345.1
MBAS (Surfactants)	___EPA 425.1
	___SM 5540 C
Nitrate/Nitrite	___EPA 353.2
	___EPA 300.0
	___SM 4500-NO_3 F
Nitrate	___EPA 353.2
	___EPA 300.0
	___SM 4500-NO3-F
Nitrite	___EPA 354.1
	___EPA 353.2
	___EPA 300.0
	___SM 4500-NO_2 B
Odor	___EPA 140.1
	___SM 2150B
Oil & Grease, Grav.	___EPA 413.1
	___SM 5520B
	___SW846 9070
Oil & Grease, IR	___EPA 413.2
	___SM 5520C

Weston Environmental Metrics, Inc. Method Reference, cont.

The following methods are used as reference for the analysis of samples contained within this RFW Lot: 9508G629

Oil & Grease, Soxhlet	___SW846 9071 ___SM 5520D
Paint Filters (Free Liquid)	___SW846 9095
Petroleum Hydrocarbons	___EPA 418.1
pH, Water	___SW 9041A ___EPA 150.1 ___SM 4500-H^+B ___SW846 9040A
pH, Soil	___SW846 9045
Phenol	___EPA 420.2 ___SW846 9066 ___EPA 420.1 ___SM 5530C
Orthophosphate as P	___EPA 365.2 ___SM 4500PE
Phosphorus, as P	___EPA 365.2 ___EPA 365.4 ___SM 4500PE
ROE at 180°C	___EPA 160.1, mod ___SM 2540C, mod
Settleable Solid	___EPA 160.5 ___SM 2540F
Soluble Organic Carbon	___EPA 415.1 ___SM 5310C
Specific Conductance	___EPA 120.1 ___SM 2510B
Sulfate (Turbidimetric)	___EPA 375.4 ___SW846 9038 ___SM 4500-SO_4^{-2}E
Sulfide (Titrimetric)	___EPA 376.1 ___SM 4500-S^{2-}E ___SW846 9030A, mod
Sulfide, Reactive	___SW846 7.3.4.2
Sulfite	___EPA 377.1 ___SM 4500-SO_3^{2-}B
Sulfur	___ASTM 129 ___EPA 375.4 (SO4) after bombing
TDS	___EPA 160.1 ___SM 2540C
Total Inorganic Carbon	___EPA 415.1 ___SM 5310C
TKN	___EPA 351.3 ___SM 4500-N_{org}C
TOC	___EPA 415.1 ___SM 5310C ___SW8469060-Quads
TOX	___SW846 9020A ___SM 5320B
TOX on Waste	___ ASTM D-808 and EPA 325.3
Total Solids	___EPA 160.3 ___SM 2540B
TSS	___EPA 160.2 ___SM 2540D
TVS	___EPA 160.4 ___SM 2540E
Turbidity	___EPA 180.1 ___SM 2130B
Viscosity, Brookfield	___ASTM D2983
Viscosity, Kinematic	___ASTM D445
Volatile Dissolved Solids	___EPA 160.4 ___SM 2540E
Volatile Suspended Solids	___EPA 160.4 ___SM 2540E
_____	
_____	
_____	
_____	
_____	

<u>Microbiological</u>

Heterotrophic Plate Count	__SM 907A
Fecal Coliform	__SM 909C

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 08/23/95

CLIENT: TAT-Pier Drum Site
WORK ORDER: 00000-000-000-0000-00-000

WESTON BATCH #: 9508G629

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	SP-SE	% Solids	87.3	%	0.10	1.0
-002	SP-SW	% Solids	84.8	%	0.10	1.0
-003	SP-N	% Solids	89.3	%	0.10	1.0
-004	S75E100	% Solids	76.9	%	0.10	1.0
-005	E75S125	% Solids	84.2	%	0.10	1.0
-006	E75S100	% Solids	81.9	%	0.10	1.0
-007	E75S75	% Solids	81.9	%	0.10	1.0
-008	E75S50	% Solids	82.2	%	0.10	1.0
-009	E75S25	% Solids	80.3	%	0.10	1.0
-010	E0S125	% Solids	72.2	%	0.10	1.0
-011	E0S100	% Solids	77.6	%	0.10	1.0
-012	E0S75	% Solids	76.6	%	0.10	1.0
-013	E0S50	% Solids	73.6	%	0.10	1.0
-014	E0S25	% Solids	81.8	%	0.10	1.0
-015	E25S125	% Solids	76.2	%	0.10	1.0
-016	E25S100	% Solids	79.5	%	0.10	1.0
-017	E25S75	% Solids	77.9	%	0.10	1.0
-018	E25S50	% Solids	82.7	%	0.10	1.0
-019	E25S25	% Solids	80.9	%	0.10	1.0
-020	E50S25	% Solids	82.5	%	0.10	1.0
-021	E50S50	% Solids	83.4	%	0.10	1.0

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 08/23/95

CLIENT: TAT-Pier Drum Site
WESTON BATCH #: 9508G629
WORK ORDER: 00000-000-000-0000-00-000

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-022	E50S75	% Solids	77.7	%	0.10	1.0
-023	E50S100	% Solids	83.7	%	0.10	1.0
-024	E50S125	% Solids	82.6	%	0.10	1.0

ROY F. WESTON INC.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 08/23/95

CLIENT: TAT-Pier Drum Site
WESTON BATCH #: 9508G629
WORK ORDER: 00000-000-000-0000-00-000

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK10	95GTS463-MB1	% Solids	0.10 u	%	0.10	1.0
BLANK10	95GTS464-MB1	% Solids	0.10 u	%	0.10	1.0

ROY F. WESTON INC.

INORGANICS PRECISION REPORT 08/23/95

CLIENT: TAT-Pier Drum Site WESTON BATCH #: 9508G629

WORK ORDER: 00000-000-000-0000-00-000

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001REP	SP-SE	% Solids	87.3	87.4	0.11	1.0
-017REP	E25S75	% Solids	77.9	76.9	1.3	1.0

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
SP-SE							
SILVER, SERIAL DILUT	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SILVER, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SILVER, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SILVER, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	001	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
ARSENIC, TOTAL	001 REP	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
ARSENIC, TOTAL	001 MS	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, SERIAL DILUT	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, SERIAL DILU	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, SERIAL DILUT	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, SERIAL DIL	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	001	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	001 REP	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	001 MS	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, SERIAL DILUTIO	001 L	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
LEAD, TOTAL	001	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
LEAD, TOTAL	001 REP	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
LEAD, TOTAL	001 MS	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	001	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
SELENIUM, TOTAL	001 REP	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
SELENIUM, TOTAL	001 MS	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
SP-SW							
SILVER, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
ARSENIC, TOTAL	002	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	002	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	002	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	002	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
SP-N							
SILVER, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	003	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	003	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	003	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	003	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
S75E100							
SILVER, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	004	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	004	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	004	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	004	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E75S125							
SILVER, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	005	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
CHROMIUM, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	005	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	005	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	005	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E75S100							
SILVER, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	006	S	95GF098	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	006	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	006	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	006	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E75S75							
SILVER, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	007	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	007	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	007	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	007	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E75S50							
SILVER, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	008	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	008	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	008	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	008	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
E75S25							
SILVER, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	009	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	009	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	009	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	009	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E0S125							
SILVER, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	010	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	010	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	010	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	010	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E0S100							
SILVER, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	011	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	011	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	011	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	011	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E0S75							
SILVER, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
ARSENIC, TOTAL	012	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	012	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	012	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	012	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E0S50							
SILVER, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	013	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	013	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	013	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	013	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E0S25							
SILVER, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	014	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	014	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	014	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	014	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E25S125							
SILVER, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	015	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
CHROMIUM, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	015	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	015	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	015	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E25S100							
SILVER, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	016	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	016	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	016	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	016	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E25S75							
SILVER, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	017	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	017	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	017	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	017	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E25S50							
SILVER, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	018	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	018	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	018	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	018	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
E25S25							
SILVER, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	019	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	019	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	019	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	019	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E50S25							
SILVER, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
ARSENIC, TOTAL	020	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
BARIUM, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CADMIUM, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
COBALT, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
CHROMIUM, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
MERCURY, TOTAL	020	S	95HG446	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	020	S	95GI002	08/16/95	08/18/95	08/22/95	08/23/95
SELENIUM, TOTAL	020	S	95GF098	08/16/95	08/18/95	08/21/95	08/21/95
E50S50							
SILVER, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	021	S	95GF101	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	021	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	021 REP	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95
MERCURY, TOTAL	021 MS	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	021	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	021	S	95GF101	08/16/95	08/18/95	08/22/95	08/24/95

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
E50S75							
SILVER, SERIAL DILUT	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SILVER, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	022	S	95GF101	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, SERIAL DILUT	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
BARIUM, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, SERIAL DILU	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, SERIAL DILUT	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, SERIAL DIL	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	022	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, SERIAL DILUTIO	022 L	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
LEAD, TOTAL	022	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
LEAD, TOTAL	022 REP	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
LEAD, TOTAL	022 MS	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	022	S	95GF101	08/16/95	08/18/95	08/22/95	08/24/95
E50S100							
SILVER, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	023	S	95GF101	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	023	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95

NY CERTIFICATION # 11006

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
LEAD, TOTAL	023	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	023	S	95GF101	08/16/95	08/18/95	08/22/95	08/24/95
E50S125							
SILVER, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
ARSENIC, TOTAL	024	S	95GF101	08/16/95	08/18/95	08/22/95	08/23/95
BARIUM, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CADMIUM, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
COBALT, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
CHROMIUM, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
MERCURY, TOTAL	024	S	95HG447	08/16/95	08/18/95	08/21/95	08/21/95
LEAD, TOTAL	024	S	95GI996	08/16/95	08/18/95	08/21/95	08/22/95
SELENIUM, TOTAL	024	S	95GF101	08/16/95	08/18/95	08/22/95	08/24/95
LAB QC:							
SILVER LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
BARIUM LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
CADMIUM LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
COBALT LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
CHROMIUM LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
LEAD LABORATORY	LC1 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
SILVER LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
BARIUM LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
CADMIUM LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
COBALT LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
CHROMIUM LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
LEAD LABORATORY	LC2 BS	S	95GI002	N/A	N/A	08/22/95	08/23/95
SILVER, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
BARIUM, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
CADMIUM, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
COBALT, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
CHROMIUM, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
LEAD, TOTAL	MB1	S	95GI002	N/A	N/A	08/22/95	08/23/95
ARSENIC LABORATORY	LC1 BS	S	95GF098	N/A	N/A	08/21/95	08/21/95
SELENIUM LABORATORY	LC1 BS	S	95GF098	N/A	N/A	08/21/95	08/21/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
ARSENIC LABORATORY	LC2 BS	S	95GF098	N/A	N/A	08/21/95 08/21/95
SELENIUM LABORATORY	LC2 BS	S	95GF098	N/A	N/A	08/21/95 08/21/95
ARSENIC, TOTAL	MB1	S	95GF098	N/A	N/A	08/21/95 08/21/95
SELENIUM, TOTAL	MB1	S	95GF098	N/A	N/A	08/21/95 08/21/95
MERCURY LABORATORY	LC1 BS	S	95HG446	N/A	N/A	08/21/95 08/21/95
MERCURY LABORATORY	LC2 BS	S	95HG446	N/A	N/A	08/21/95 08/21/95
MERCURY, TOTAL	MB1	S	95HG446	N/A	N/A	08/21/95 08/21/95
SILVER LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
BARIUM LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
CADMIUM LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
COBALT LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
CHROMIUM LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
LEAD LABORATORY	LC1 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
SILVER LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
BARIUM LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
CADMIUM LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
COBALT LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
CHROMIUM LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
LEAD LABORATORY	LC2 BS	S	95GI996	N/A	N/A	08/21/95 08/22/95
SILVER, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
BARIUM, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
CADMIUM, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
COBALT, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
CHROMIUM, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
LEAD, TOTAL	MB1	S	95GI996	N/A	N/A	08/21/95 08/22/95
ARSENIC LABORATORY	LC1 BS	S	95GF101	N/A	N/A	08/22/95 08/23/95
SELENIUM LABORATORY	LC1 BS	S	95GF101	N/A	N/A	08/22/95 08/24/95
ARSENIC LABORATORY	LC2 BS	S	95GF101	N/A	N/A	08/22/95 08/23/95
SELENIUM LABORATORY	LC2 BS	S	95GF101	N/A	N/A	08/22/95 08/24/95
ARSENIC, TOTAL	MB1	S	95GF101	N/A	N/A	08/22/95 08/23/95
SELENIUM, TOTAL	MB1	S	95GF101	N/A	N/A	08/22/95 08/24/95
MERCURY LABORATORY	LC1 BS	S	95HG447	N/A	N/A	08/21/95 08/21/95
MERCURY LABORATORY	LC2 BS	S	95HG447	N/A	N/A	08/21/95 08/21/95
MERCURY, TOTAL	MB1	S	95HG447	N/A	N/A	08/21/95 08/21/95

SIGNATURE Cynthia L. Ayer DATE 8/28/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
METALS CASE NARRATIVE

Client: TAT-Pier Drum Site
RFW#: 9508G629
SDG#: N/A

W.O.#: 00000-000-000-0000
Date Rec'd: 08/18/95

1. This narrative covers the analysis of 24 soil samples for the following metals:

   ICP ..... Ag,Ba,Cd,Co,Cr
   GFAA ..... As,Pb,Se
   Cold vapor. Hg

   Method Ref: USEPA SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below reporting limits.

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. Two Laboratory Control Samples (LCS) were prepared with each digestion batch. Both results were within the 80-120% control limits.

8. All Matrix Spike recoveries were within the 75-125% control limits.

9. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits for sample concentration greater than 5X the reporting limit or +\- the reporting limit for sample concentration less than 5X the reporting limit.

Mani S. Iyer

Mani S.Iyer
Metals Section Manager

8/28/95
Date

Environmental Metrics, Inc. Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot : 9508G629

METALS METHODS

SOW	____	ILM03.0					
Aluminum	____	SW846 6010	____	EPA 200.7			
Antimony	____	SW846 6010	____	EPA 200.7	____	SW846 7041	____ EPA 204.2
Arsenic	____	SW846 6010	____	EPA 200.7	✓	SW846 7060	____ EPA 206.2
Barium	✓	SW846 6010	____	EPA 200.7			
Beryllium	____	SW846 6010	____	EPA 200.7			
Boron	____	SW846 6010	____	EPA 200.7			
Cadmium	✓	SW846 6010	____	EPA 200.7	____	SW846 7131	____ EPA 213.2
Calcium	____	SW846 6010	____	EPA 200.7			
Chromium	✓	SW846 6010	____	EPA 200.7	____	SW846 7191	____ EPA 218.2
Cobalt	✓	SW846 6010	____	EPA 200.7			
Copper	____	SW846 6010	____	EPA 200.7	____	SW846 7211	____ EPA 220.2
Iron	____	SW846 6010	____	EPA 200.7			
Lead	✓	SW846 6010	____	EPA 200.7	____	SW846 7421	____ EPA 239.2
Lithium	____	SW846 6010	____	EPA 200.7			
Magnesium	____	SW846 6010	____	EPA 200.7			
Manganese	____	SW846 6010	____	EPA 200.7			
Mercury	____	SW846 7470	____	EPA 245.1			
Mercury	✓	SW846 7471	____	EPA 245.5			
Molybdenum	____	SW846 6010	____	EPA 200.7			
Nickel	____	SW846 6010	____	EPA 200.7			
Potassium	____	SW846 6010	____	EPA 200.7			
Selenium	____	SW846 6010	____	EPA 200.7	✓	SW846 7740	____ EPA 270.2
Silicon	____	SW846 6010	____	EPA 200.7			
Silver	✓	SW846 6010	____	EPA 200.7	____	SW846 7761	____ EPA 272.2
Sodium	____	SW846 6010	____	EPA 200.7			
Strontium	____	SW846 6010	____	EPA 200.7			
Thallium	____	SW846 6010	____	EPA 200.7	____	SW846 7841	____ EPA 279.2
Tin	____	SW846 6010	____	EPA 200.7			
Titanium	____	SW846 6010	____	EPA 200.7			
Vanadium	____	SW846 6010	____	EPA 200.7			
Zinc	____	SW846 6010	____	EPA 200.7			

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Fax: (708) 534-5211

To: TAT-Pier Drum

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: SP-SE
Project # 00000-000-000-0000
Lab ID: 9508G629-001
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.96	u	mg/kg	0.96
Arsenic, Total	0.20	u	mg/kg	0.20
Barium, Total	8.0		mg/kg	4.8
Cadmium, Total	0.96	u	mg/kg	0.96
Cobalt, Total	1.9	u	mg/kg	1.9
Chromium, Total	1.9	u	mg/kg	1.9
Mercury, Total	0.092	u	mg/kg	0.092
Lead, Total	4.8	u	mg/kg	4.8
Selenium, Total	0.20	u	mg/kg	0.20

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: SP-SW
Project # 00000-000-000-0000
Lab ID: 9508G629-002
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.61		mg/kg	0.14
Barium, Total	5.5	u	mg/kg	5.5
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.2	u	mg/kg	2.2
Chromium, Total	2.2	u	mg/kg	2.2
Mercury, Total	0.10	u	mg/kg	0.10
Lead, Total	5.5	u	mg/kg	5.5
Selenium, Total	0.14	u	mg/kg	0.14

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: SP-N
Project # 00000-000-000-0000
Lab ID: 9508G629-003
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.96	u	mg/kg	0.96
Arsenic, Total	0.16	u	mg/kg	0.16
Barium, Total	5.0		mg/kg	4.8
Cadmium, Total	0.96	u	mg/kg	0.96
Cobalt, Total	1.9	u	mg/kg	1.9
Chromium, Total	1.9	u	mg/kg	1.9
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	4.8	u	mg/kg	4.8
Selenium, Total	0.16	u	mg/kg	0.16

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: S75E100
Project # 00000-000-000-0000
Lab ID: 9508G629-004
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.2	u	mg/kg	1.2
Arsenic, Total	0.69		mg/kg	0.22
Barium, Total	6.1	u	mg/kg	6.1
Cadmium, Total	1.2	u	mg/kg	1.2
Cobalt, Total	2.5	u	mg/kg	2.5
Chromium, Total	2.5	u	mg/kg	2.5
Mercury, Total	0.087	u	mg/kg	0.087
Lead, Total	6.1	u	mg/kg	6.1
Selenium, Total	0.22	u	mg/kg	0.22

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E75S125
Project # 00000-000-000-0000
Lab ID: 9508G629-005
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.21	u	mg/kg	0.21
Barium, Total	5.4	u	mg/kg	5.4
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.079	u	mg/kg	0.079
Lead, Total	5.4	u	mg/kg	5.4
Selenium, Total	0.21	u	mg/kg	0.21

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E75S100
Project # 00000-000-000-0000
Lab ID: 9508G629-006
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.28		mg/kg	0.20
Barium, Total	5.4	u	mg/kg	5.4
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.098	u	mg/kg	0.098
Lead, Total	5.4	u	mg/kg	5.4
Selenium, Total	0.20	u	mg/kg	0.20

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1575 Northside Drive, NW
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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E75S75
Project # 00000-000-000-0000
Lab ID: 9508G629-007
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.39		mg/kg	0.19
Barium, Total	5.0	u	mg/kg	5.0
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.0	u	mg/kg	2.0
Chromium, Total	2.0	u	mg/kg	2.0
Mercury, Total	0.12	u	mg/kg	0.12
Lead, Total	5.0	u	mg/kg	5.0
Selenium, Total	0.19	u	mg/kg	0.19

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E75S50
Project # 00000-000-000-0000
Lab ID: 9508G629-008
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.31		mg/kg	0.21
Barium, Total	5.2	u	mg/kg	5.2
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.081	u	mg/kg	0.081
Lead, Total	5.2	u	mg/kg	5.2
Selenium, Total	0.21	u	mg/kg	0.21

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E75S25
Project # 00000-000-000-0000
Lab ID: 9508G629-009
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.19	u	mg/kg	0.19
Barium, Total	5.6	u	mg/kg	5.6
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.2	u	mg/kg	2.2
Chromium, Total	2.2	u	mg/kg	2.2
Mercury, Total	0.10	u	mg/kg	0.10
Lead, Total	5.6	u	mg/kg	5.6
Selenium, Total	0.19	u	mg/kg	0.19

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: EOS125
Project # 00000-000-000-0000
Lab ID: 9508G629-010
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.21	u	mg/kg	0.21
Barium, Total	5.6	u	mg/kg	5.6
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.3	u	mg/kg	2.3
Chromium, Total	2.3	u	mg/kg	2.3
Mercury, Total	0.13	u	mg/kg	0.13
Lead, Total	8.2		mg/kg	5.6
Selenium, Total	0.21	u	mg/kg	0.21

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E0S100
Project # 00000-000-000-0000
Lab ID: 9508G629-011
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.30		mg/kg	0.20
Barium, Total	5.2	u	mg/kg	5.2
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.13	u	mg/kg	0.13
Lead, Total	7.7		mg/kg	5.2
Selenium, Total	0.25		mg/kg	0.20

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: EOS75
Project # 00000-000-000-0000
Lab ID: 9508G629-012
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.50		mg/kg	0.22
Barium, Total	5.5	u	mg/kg	5.5
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.2	u	mg/kg	2.2
Chromium, Total	2.2	u	mg/kg	2.2
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	5.5	u	mg/kg	5.5
Selenium, Total	0.22	u	mg/kg	0.22

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E0S50
Project # 00000-000-000-0000
Lab ID: 9508G629-013
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.2	u	mg/kg	1.2
Arsenic, Total	0.63		mg/kg	0.21
Barium, Total	8.7		mg/kg	6.2
Cadmium, Total	1.2	u	mg/kg	1.2
Cobalt, Total	2.5	u	mg/kg	2.5
Chromium, Total	2.5	u	mg/kg	2.5
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	18.3		mg/kg	6.2
Selenium, Total	0.21	u	mg/kg	0.21

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: EOS25
Project # 00000-000-000-0000
Lab ID: 9508G629-014
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.2	u	mg/kg	1.2
Arsenic, Total	0.34		mg/kg	0.23
Barium, Total	5.9	u	mg/kg	5.9
Cadmium, Total	1.2	u	mg/kg	1.2
Cobalt, Total	2.4	u	mg/kg	2.4
Chromium, Total	2.4	u	mg/kg	2.4
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	5.9	u	mg/kg	5.9
Selenium, Total	0.23	u	mg/kg	0.23

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E25S125
Project # 00000-000-000-0000
Lab ID: 9508G629-015
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.2	u	mg/kg	1.2
Arsenic, Total	0.22	u	mg/kg	0.22
Barium, Total	5.8	u	mg/kg	5.8
Cadmium, Total	1.2	u	mg/kg	1.2
Cobalt, Total	2.3	u	mg/kg	2.3
Chromium, Total	2.3	u	mg/kg	2.3
Mercury, Total	0.088	u	mg/kg	0.088
Lead, Total	7.2		mg/kg	5.8
Selenium, Total	0.22	u	mg/kg	0.22

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E25S100
Project # 00000-000-000-0000
Lab ID: 9508G629-016
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.42		mg/kg	0.24
Barium, Total	5.2	u	mg/kg	5.2
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.093	u	mg/kg	0.093
Lead, Total	5.2	u	mg/kg	5.2
Selenium, Total	0.24	u	mg/kg	0.24

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1575 Northside Drive, NW
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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E25S75
Project # 00000-000-000-0000
Lab ID: 9508G629-017
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.37		mg/kg	0.21
Barium, Total	5.1	u	mg/kg	5.1
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.0	u	mg/kg	2.0
Chromium, Total	2.0	u	mg/kg	2.0
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	7.8		mg/kg	5.1
Selenium, Total	0.21	u	mg/kg	0.21

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E25S50
Project # 00000-000-000-0000
Lab ID: 9508G629-018
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.1	u	mg/kg	1.1
Arsenic, Total	0.20	u	mg/kg	0.20
Barium, Total	5.5	u	mg/kg	5.5
Cadmium, Total	1.1	u	mg/kg	1.1
Cobalt, Total	2.2	u	mg/kg	2.2
Chromium, Total	2.2	u	mg/kg	2.2
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	5.5	u	mg/kg	5.5
Selenium, Total	0.20	u	mg/kg	0.20

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E25S25
Project # 00000-000-000-0000
Lab ID: 9508G629-019
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.17	u	mg/kg	0.17
Barium, Total	5.2	u	mg/kg	5.2
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.12	u	mg/kg	0.12
Lead, Total	7.2		mg/kg	5.2
Selenium, Total	0.17	u	mg/kg	0.17

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E50S25
Project # 00000-000-000-0000
Lab ID: 9508G629-020
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.76	u	mg/kg	0.76
Arsenic, Total	0.20	u	mg/kg	0.20
Barium, Total	3.8	u	mg/kg	3.8
Cadmium, Total	0.76	u	mg/kg	0.76
Cobalt, Total	1.5	u	mg/kg	1.5
Chromium, Total	1.5	u	mg/kg	1.5
Mercury, Total	0.084	u	mg/kg	0.084
Lead, Total	3.8	u	mg/kg	3.8
Selenium, Total	0.20	u	mg/kg	0.20

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E50S50
Project # 00000-000-000-0000
Lab ID: 9508G629-021
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.89	u	mg/kg	0.89
Arsenic, Total	0.39		mg/kg	0.22
Barium, Total	4.4	u	mg/kg	4.4
Cadmium, Total	0.89	u	mg/kg	0.89
Cobalt, Total	1.8	u	mg/kg	1.8
Chromium, Total	1.8	u	mg/kg	1.8
Mercury, Total	0.096	u	mg/kg	0.096
Lead, Total	4.4	u	mg/kg	4.4
Selenium, Total	0.22	u	mg/kg	0.22

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E50S75
Project # 00000-000-000-0000
Lab ID: 9508G629-022
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	1.2		mg/kg	0.19
Barium, Total	10.9		mg/kg	5.1
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.0	u	mg/kg	2.0
Chromium, Total	4.9		mg/kg	2.0
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	18.2		mg/kg	5.1
Selenium, Total	0.19	u	mg/kg	0.19

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E50S100
Project # 00000-000-000-0000
Lab ID: 9508G629-023
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	1.0	u	mg/kg	1.0
Arsenic, Total	0.25		mg/kg	0.18
Barium, Total	5.9		mg/kg	5.2
Cadmium, Total	1.0	u	mg/kg	1.0
Cobalt, Total	2.1	u	mg/kg	2.1
Chromium, Total	2.1	u	mg/kg	2.1
Mercury, Total	0.11	u	mg/kg	0.11
Lead, Total	5.2	u	mg/kg	5.2
Selenium, Total	0.18	u	mg/kg	0.18

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

RE: E50S125
Project # 00000-000-000-0000
Lab ID: 9508G629-024
Sample Date: 08/16/95
Date Received: 08/18/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.86	u	mg/kg	0.86
Arsenic, Total	0.20	u	mg/kg	0.20
Barium, Total	4.3	u	mg/kg	4.3
Cadmium, Total	0.86	u	mg/kg	0.86
Cobalt, Total	1.7	u	mg/kg	1.7
Chromium, Total	1.7	u	mg/kg	1.7
Mercury, Total	0.084	u	mg/kg	0.084
Lead, Total	4.5		mg/kg	4.3
Selenium, Total	0.20	u	mg/kg	0.20

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	95GI002-MB1	Silver, Total	1.0	u	mg/kg	1.0
		Barium, Total	5.0	u	mg/kg	5.0
		Cadmium, Total	1.0	u	mg/kg	1.0
		Cobalt, Total	2.0	u	mg/kg	2.0
		Chromium, Total	2.0	u	mg/kg	2.0
		Lead, Total	5.0	u	mg/kg	5.0
Blank 1	95GF098-MB1	Arsenic, Total	0.20	u	mg/kg	0.20
		Selenium, Total	0.20	u	mg/kg	0.20
Blank 1	95HG446-MB1	Mercury, Total	0.10	u	mg/kg	0.10
Blank 1	95GI996-MB1	Silver, Total	1.0	u	mg/kg	1.0
		Barium, Total	5.0	u	mg/kg	5.0
		Cadmium, Total	1.0	u	mg/kg	1.0
		Cobalt, Total	2.0	u	mg/kg	2.0
		Chromium, Total	2.0	u	mg/kg	2.0
		Lead, Total	5.0	u	mg/kg	5.0
Blank 1	95GF101-MB1	Arsenic, Total	0.20	u	mg/kg	0.20
		Selenium, Total	0.20	u	mg/kg	0.20

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	95HG447-MB1	Mercury, Total	0.10	u	mg/kg	0.10

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result		Replicate		RPD
-001REP	SP-SE	Silver, Total	0.96	u	1.1	u	NC
		Arsenic, Total	0.20	u	0.23		NC
		Barium, Total	8.0		7.9		1.7
		Cadmium, Total	0.96	u	1.1	u	NC
		Cobalt, Total	1.9	u	2.1	u	NC
		Chromium, Total	1.9	u	2.1	u	NC
		Mercury, Total	0.092	u	0.11	u	NC
		Lead, Total	4.8	u	5.4	u	NC
		Selenium, Total	0.20	u	0.18	u	NC
-021REP	E50S50	Mercury, Total	0.096	u	0.092	u	NC
-022REP	E50S75	Silver, Total	1.0	u	1.1	u	NC
		Barium, Total	10.9		8.8		21.4
		Cadmium, Total	1.0	u	1.1	u	NC
		Cobalt, Total	2.0	u	2.2	u	NC
		Chromium, Total	4.9		3.3		39.7
		Lead, Total	18.2		14.7		21.1

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	SP-SE	Silver, Total	4.3	0.96	u	5.1	84.0
		Arsenic, Total	3.7	0.20	u	3.8	98.0
		Barium, Total	204	8.0		203	96.7
		Cadmium, Total	4.6	0.96	u	5.1	91.3
		Cobalt, Total	48.3	1.9	u	50.7	95.2
		Chromium, Total	21.4	1.9	u	20.3	106
		Mercury, Total	0.57	0.092	u	0.54	104
		Lead, Total	47.7	4.8	u	50.7	94.0
		Selenium, Total	1.1	0.20	u	0.95	112
-021	E50S50	Mercury, Total	0.52	0.096	u	0.50	103
-022	E50S75	Silver, Total	4.4	1.0	u	5.4	82.2
		Barium, Total	211	10.9		216	92.3
		Cadmium, Total	4.9	1.0	u	5.4	91.1
		Cobalt, Total	51.5	2.0	u	54.1	95.2
		Chromium, Total	25.4	4.9		21.6	94.8
		Lead, Total	68.6	18.2		54.1	93.1

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
95GI002-LC1	Silver, LCS	5.0	mg/kg	74.1	85.6	14.3
	Barium, LCS	200	mg/kg	91.6	92.4	0.84
	Cadmium, LCS	5.0	mg/kg	80.1	83.6	4.2
	Cobalt, LCS	50.0	mg/kg	91.0	93.8	3.0
	Chromium, LCS	20.0	mg/kg	87.0	90.1	3.5
	Lead, LCS	50.0	mg/kg	82.0	91.4	10.8
95GF098-LC1	Arsenic, LCS	4.0	mg/kg	95.2	98.4	3.3
	Selenium, LCS	1.0	mg/kg	96.6	86.3	11.3
95HG446-LC1	Mercury, LCS	1.0	mg/kg	96.6	97.2	0.62
95GI996-LC1	Silver, LCS	5.0	mg/kg	85.2	82.9	2.7
	Barium, LCS	200	mg/kg	95.1	94.7	0.37
	Cadmium, LCS	5.0	mg/kg	100	98.9	1.5
	Cobalt, LCS	50.0	mg/kg	96.5	96.6	0.072
	Chromium, LCS	20.0	mg/kg	94.1	93.7	0.43
	Lead, LCS	50.0	mg/kg	92.2	92.1	0.14
95GF101-LC1	Arsenic, LCS	4.0	mg/kg	98.2	97.8	0.48
	Selenium, LCS	1.0	mg/kg	96.8	101	3.9

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Attn: Ms. Paula MacLaren

Date: Monday August 28th, 1995

Project # 00000-000-000-0000
Lab Batch: 9508G629

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
95HG447-LC1	Mercury, LCS	1.0	mg/kg	98.6	100	1.5

Weston Environmental Metrics, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
TAT-Pier Drum Site

LABORATORY CHRONICLE

RFW LOT # :9508G629

CLIENT ID	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
SP-SE	001	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
SP-SE	001 MS	S	95GVT193	08/16/95	08/18/95	N/A	08/23/95
SP-SE	001 MSD	S	95GVT193	08/16/95	08/18/95	N/A	08/23/95
SP-SW	002	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
SP-N	003	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
S75E100	004	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E75S125	005	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E75S100	006	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E75S75	007	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E75S50	008	S	95GVT194	08/16/95	08/18/95	N/A	08/23/95
E75S25	009	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E0S125	010	S	95GVT194	08/16/95	08/18/95	N/A	08/23/95
E0S125	010 R1	S	95GVF210	08/16/95	08/18/95	N/A	08/27/95
E0S100	011	S	95GVT194	08/16/95	08/18/95	N/A	08/23/95
E0S75	012	S	95GVF211	08/16/95	08/18/95	N/A	08/27/95
E0S50	013	S	95GVF212	08/16/95	08/18/95	N/A	08/28/95
E0S25	014	S	95GVT194	08/16/95	08/18/95	N/A	08/23/95
E0S25	014 R1	S	95GVF211	08/16/95	08/18/95	N/A	08/27/95
E25S125	015	S	95GVT194	08/16/95	08/18/95	N/A	08/23/95
E25S125	015 R1	S	95GVF211	08/16/95	08/18/95	N/A	08/27/95
E25S100	016	S	95GVF211	08/16/95	08/18/95	N/A	08/28/95
E25S75	017	S	95GVT194	08/16/95	08/18/95	N/A	08/24/95
E25S75	017 R1	S	95GVF211	08/16/95	08/18/95	N/A	08/28/95
E25S50	018	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E25S25	019	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E50S25	020	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E50S25	020 R1	S	95GVF211	08/16/95	08/18/95	N/A	08/28/95
E50S50	021	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E50S50	021 R1	S	95GVF212	08/16/95	08/18/95	N/A	08/28/95
E50S75	022	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E50S100	023	S	95GVT196	08/16/95	08/18/95	N/A	08/25/95
E50S125	024	S	95GVF212	08/16/95	08/18/95	N/A	08/28/95
E50S125	024 R1	S	95GVF212	08/16/95	08/18/95	N/A	08/28/95
LAB QC:							
VBLK	MB1	S	95GVF210	N/A	N/A	N/A	08/27/95
VBLK	MB1 BS	S	95GVF210	N/A	N/A	N/A	08/27/95
VBLK	MB1 BSD	S	95GVF210	N/A	N/A	N/A	08/27/95
VBLK	MB1	S	95GVT193	N/A	N/A	N/A	08/23/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
GC/MS Case Narrative

TAT-Pier Drum Site
RFW# 9508G629
VOA DATA:

1. All analyses were performed within the Method hold times.

2. All Method Blank target compounds were below reporting limits, except for low levels of acetone. All same sample hits are flagged with a "B."

3. All LCS (Method Blank Spike) recoveries and %RPD values were within limits.

4. Matrix Spike analyses were conducted on sample -001. All recoveries and RPD's were within limits.

5. All surrogate recoveries in the volatile analyses were within QC limits, except for the following. Samples -014, 015, 017, 020, 021 and -024 all had surrogates outside limits. All were re-analyzed and surrogates were outside limits again, or internal standard areas were low. In all cases both sets of data are reported.

6. All analyses were performed following SW846 Method 8240. Deliverables are as requested.

7. All of the samples were analyzed as low level soils.

8. All internal standard areas and retention times were within limits, except for the following. Samples -010, 014, 015, 017, 020, 021 and -024 all had low areas. All were re-analyzed and areas were low both times. Both sets of analyses are reported.

Marilyn Kruedling
GC/MS Section Manager

8/29/95
Date

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: SP-SE
Project # 00000-000-000-0000
Lab ID: 9508G629-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Date: Tuesday August 29th, 1995

RE: SP-SE
Project # 00000-000-000-0000
Lab ID: 9508G629-001
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: SP-SW
Project # 00000-000-000-0000
Lab ID: 9508G629-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: SP-SW
Project # 00000-000-000-0000
Lab ID: 9508G629-002
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: SP-N
Project # 00000-000-000-0000
Lab ID: 9508G629-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	11	U
Bromomethane	BRL	11	U
Vinyl chloride	BRL	11	U
Chloroethane	BRL	11	U
Methylene Chloride	BRL	6	U
Acetone	27	11	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	11	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	11	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: SP-N
Project # 00000-000-000-0000
Lab ID: 9508G629-003
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	11	U
2-Hexanone	BRL	11	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: S75E100
Project # 00000-000-000-0000
Lab ID: 9508G629-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	BRL	13	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: S75E100
Project # 00000-000-000-0000
Lab ID: 9508G629-004
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S125
Project # 00000-000-000-0000
Lab ID: 9508G629-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S125
Project # 00000-000-000-0000
Lab ID: 9508G629-005
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S100
Project # 00000-000-000-0000
Lab ID: 9508G629-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	28	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S100
Project # 00000-000-000-0000
Lab ID: 9508G629-006
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S75
Project # 00000-000-000-0000
Lab ID: 9508G629-007
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	26	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S75
Project # 00000-000-000-0000
Lab ID: 9508G629-007
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S50
Project # 00000-000-000-0000
Lab ID: 9508G629-008
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	22	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S25
Project # 00000-000-000-0000
Lab ID: 9508G629-009
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E75S25
Project # 00000-000-000-0000
Lab ID: 9508G629-009
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E0S125
Project # 00000-000-000-0000
Lab ID: 9508G629-010
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	14	U
Bromomethane	BRL	14	U
Vinyl chloride	BRL	14	U
Chloroethane	BRL	14	U
Methylene Chloride	BRL	7	U
Acetone	21	14	B
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	14	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	14	U
Bromodichloromethane	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS125
Project # 00000-000-000-0000
Lab ID: 9508G629-010
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	14	U
2-Hexanone	BRL	14	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E0S125
Project # 00000-000-000-0000
Lab ID: 9508G629-010 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	14	U
Bromomethane	BRL	14	U
Vinyl chloride	BRL	14	U
Chloroethane	BRL	14	U
Methylene Chloride	BRL	7	U
Acetone	25	14	B
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	14	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	14	U
Bromodichloromethane	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS125
Project # 00000-000-000-0000
Lab ID: 9508G629-010 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	14	U
2-Hexanone	BRL	14	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS100
Project # 00000-000-000-0000
Lab ID: 9508G629-011
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	19	13	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS100
Project # 00000-000-000-0000
Lab ID: 9508G629-011
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E0S75
Project # 00000-000-000-0000
Lab ID: 9508G629-012
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	7	U
Acetone	BRL	13	U
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS75
Project # 00000-000-000-0000
Lab ID: 9508G629-012
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS50
Project # 00000-000-000-0000
Lab ID: 9508G629-013
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	14	U
Bromomethane	BRL	14	U
Vinyl chloride	BRL	14	U
Chloroethane	BRL	14	U
Methylene Chloride	BRL	7	U
Acetone	BRL	14	U
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	14	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	14	U
Bromodichloromethane	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS50
Project # 00000-000-000-0000
Lab ID: 9508G629-013
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	14	U
2-Hexanone	BRL	14	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS25
Project # 00000-000-000-0000
Lab ID: 9508G629-014
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	16	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS25
Project # 00000-000-000-0000
Lab ID: 9508G629-014
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: EOS25
Project # 00000-000-000-0000
Lab ID: 9508G629-014 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E0S25
Project # 00000-000-000-0000
Lab ID: 9508G629-014 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S125
Project # 00000-000-000-0000
Lab ID: 9508G629-015
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	7	U
Acetone	13	13	B
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	7	U

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1575 Northside Drive, NW
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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S125
Project # 00000-000-000-0000
Lab ID: 9508G629-015
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S125
Project # 00000-000-000-0000
Lab ID: 9508G629-015 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	7	U
Acetone	BRL	13	U
Carbon Disulfide	BRL	7	U
1,1-Dichloroethene	BRL	7	U
1,1-Dichloroethane	BRL	7	U
1,2-Dichloroethene (total)	BRL	7	U
Chloroform	BRL	7	U
1,2-Dichloroethane	BRL	7	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	7	U
Carbon Tetrachloride	BRL	7	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S125
Project # 00000-000-000-0000
Lab ID: 9508G629-015 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	7	U
cis-1,3-Dichloropropene	BRL	7	U
Trichloroethene	BRL	7	U
Dibromochloromethane	BRL	7	U
1,1,2-Trichloroethane	BRL	7	U
Benzene	BRL	7	U
trans-1,3-Dichloropropene	BRL	7	U
Bromoform	BRL	7	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	7	U
1,1,2,2-Tetrachloroethane	BRL	7	U
Toluene	BRL	7	U
Chlorobenzene	BRL	7	U
Ethylbenzene	BRL	7	U
Styrene	BRL	7	U
Xylene (total)	BRL	7	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S100
Project # 00000-000-000-0000
Lab ID: 9508G629-016
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	25	13	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S100
Project # 00000-000-000-0000
Lab ID: 9508G629-016
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S75
Project # 00000-000-000-0000
Lab ID: 9508G629-017
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	BRL	13	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S75
Project # 00000-000-000-0000
Lab ID: 9508G629-017
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S75
Project # 00000-000-000-0000
Lab ID: 9508G629-017 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	BRL	13	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S75
Project # 00000-000-000-0000
Lab ID: 9508G629-017 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S50
Project # 00000-000-000-0000
Lab ID: 9508G629-018
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	14	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S50
Project # 00000-000-000-0000
Lab ID: 9508G629-018
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S25
Project # 00000-000-000-0000
Lab ID: 9508G629-019
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	16	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E25S25
Project # 00000-000-000-0000
Lab ID: 9508G629-019
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S25
Project # 00000-000-000-0000
Lab ID: 9508G629-020
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	15	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S25
Project # 00000-000-000-0000
Lab ID: 9508G629-020
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S25
Project # 00000-000-000-0000
Lab ID: 9508G629-020 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S25
Project # 00000-000-000-0000
Lab ID: 9508G629-020 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S50
Project # 00000-000-000-0000
Lab ID: 9508G629-021
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	15	12	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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2417 Bond Street
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Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S50
Project # 00000-000-000-0000
Lab ID: 9508G629-021
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S50
Project # 00000-000-000-0000
Lab ID: 9508G629-021 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S50
Project # 00000-000-000-0000
Lab ID: 9508G629-021 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S75
Project # 00000-000-000-0000
Lab ID: 9508G629-022
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	13	U
Bromomethane	BRL	13	U
Vinyl chloride	BRL	13	U
Chloroethane	BRL	13	U
Methylene Chloride	BRL	6	U
Acetone	13	13	B
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	13	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	13	U
Bromodichloromethane	BRL	6	U

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To: TAT-Pier Drum Site
Roy F. Weston, Incorporated
1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S75
Project # 00000-000-000-0000
Lab ID: 9508G629-022
Sample Date: 08/16/95
Date Received: 08/18/95
Units: ug/Kg

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	13	U
2-Hexanone	BRL	13	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S100
Project # 00000-000-000-0000
Lab ID: 9508G629-023
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Roy F. Weston, Incorporated
1575 Northside Drive, NW
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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S100
Project # 00000-000-000-0000
Lab ID: 9508G629-023
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S125
Project # 00000-000-000-0000
Lab ID: 9508G629-024
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S125
Project # 00000-000-000-0000
Lab ID: 9508G629-024
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

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1575 Northside Drive, NW
Atlanta, GA 30318-4208

Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S125
Project # 00000-000-000-0000
Lab ID: 9508G629-024 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U
Bromodichloromethane	BRL	6	U

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Attn: Ms. Paula MacLaren

Date: Tuesday August 29th, 1995

RE: E50S125
Project # 00000-000-000-0000
Lab ID: 9508G629-024 RE
Sample Date: 08/16/95
Date Received: 08/18/95
Units: UG/KG

VOLATILES BY GC/MS, HSL LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U
4-Methyl-2-pentanone	BRL	12	U
2-Hexanone	BRL	12	U
Tetrachloroethene	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9508G629 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/29/95 11:10 Page: 1a

	Cust ID:	SP-SE	SP-SE	SP-SE	SP-SW	SP-N	S75E100
Sample Information	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	107 %	108 %	115 %	107 %	100 %	105 %
	4-Bromofluorobenzene	77 %	88 %	90 %	84 %	90 %	89 %
	1,2-Dichloroethane-d4	91 %	107 %	120 %	90 %	96 %	96 %
Chloromethane		12 U	12 U	12 U	12 U	11 U	13 U
Bromomethane		12 U	12 U	12 U	12 U	11 U	13 U
Vinyl chloride		12 U	12 U	12 U	12 U	11 U	13 U
Chloroethane		12 U	12 U	12 U	12 U	11 U	13 U
Methylene Chloride		6 U	6 U	6 U	6 U	6 U	6 U
Acetone		12 U	12 U	12 U	12 U	27 B	13 U
Carbon Disulfide		6 U	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene		6 U	102 %	105 %	6 U	6 U	6 U
1,1-Dichloroethane		6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)		6 U	6 U	6 U	6 U	6 U	6 U
Chloroform		6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane		6 U	6 U	6 U	6 U	6 U	6 U
2-Butanone		12 U	12 U	12 U	12 U	11 U	13 U
1,1,1-Trichloroethane		6 U	6 U	6 U	6 U	6 U	6 U
Carbon Tetrachloride		6 U	6 U	6 U	6 U	6 U	6 U
Vinyl acetate		12 U	12 U	12 U	12 U	11 U	13 U
Bromodichloromethane		6 U	6 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane		6 U	6 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene		6 U	6 U	6 U	6 U	6 U	6 U
Trichloroethene		6 U	90 %	91 %	6 U	6 U	6 U
Dibromochloromethane		6 U	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane		6 U	6 U	6 U	6 U	6 U	6 U
Benzene		6 U	108 %	116 %	6 U	6 U	6 U
trans-1,3-Dichloropropene		6 U	6 U	6 U	6 U	6 U	6 U
Bromoform		6 U	6 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone		12 U	12 U	12 U	12 U	11 U	13 U
2-Hexanone		12 U	12 U	12 U	12 U	11 U	13 U
Tetrachloroethene		6 U	6 U	6 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane		6 U	6 U	6 U	6 U	6 U	6 U

*= Outside of EPA CLP QC limits.

Cust ID:	SP-SE	SP-SE	SP-SE	SP-SW	SP-N	S75E100
RFW#:	001	001 MS	001 MSD	002	003	004
Toluene	6 U	107 %	112 %	6 U	6 U	6 U
Chlorobenzene	6 U	100 %	104 %	6 U	6 U	6 U
Ethylbenzene	6 U	6 U	6 U	6 U	6 U	6 U
Styrene	6 U	6 U	6 U	6 U	6 U	6 U
Xylene (total)	6 U	6 U	6 U	6 U	6 U	6 U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9508G629 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/29/95 11:10 Page: 2a

	Cust ID:	E75S125		E75S100		E75S75		E75S50		E75S25		E0S125	
Sample Information	RFW#:	005		006		007		008		009		010	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1		1		1		1		1		1	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Toluene-d8	84	%	86	%	99	%	112	%	112	%	113	%
	4-Bromofluorobenzene	93	%	104	%	92	%	98	%	82	%	78	%
	1,2-Dichloroethane-d4	94	%	97	%	95	%	107	%	99	%	99	%
Chloromethane		12	U	12	U	12	U	12	U	12	U	14	U
Bromomethane		12	U	12	U	12	U	12	U	12	U	14	U
Vinyl chloride		12	U	12	U	12	U	12	U	12	U	14	U
Chloroethane		12	U	12	U	12	U	12	U	12	U	14	U
Methylene Chloride		6	U	6	U	6	U	6	U	6	U	7	U
Acetone		12	U	28	B	26	B	22	B	12	U	21	B
Carbon Disulfide		6	U	6	U	6	U	6	U	6	U	7	U
1,1-Dichloroethene		6	U	6	U	6	U	6	U	6	U	7	U
1,1-Dichloroethane		6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloroethene (total)		6	U	6	U	6	U	6	U	6	U	7	U
Chloroform		6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloroethane		6	U	6	U	6	U	6	U	6	U	7	U
2-Butanone		12	U	12	U	12	U	12	U	12	U	14	U
1,1,1-Trichloroethane		6	U	6	U	6	U	6	U	6	U	7	U
Carbon Tetrachloride		6	U	6	U	6	U	6	U	6	U	7	U
Vinyl acetate		12	U	12	U	12	U	12	U	12	U	14	U
Bromodichloromethane		6	U	6	U	6	U	6	U	6	U	7	U
1,2-Dichloropropane		6	U	6	U	6	U	6	U	6	U	7	U
cis-1,3-Dichloropropene		6	U	6	U	6	U	6	U	6	U	7	U
Trichloroethene		6	U	6	U	6	U	6	U	6	U	7	U
Dibromochloromethane		6	U	6	U	6	U	6	U	6	U	7	U
1,1,2-Trichloroethane		6	U	6	U	6	U	6	U	6	U	7	U
Benzene		6	U	6	U	6	U	6	U	6	U	7	U
trans-1,3-Dichloropropene		6	U	6	U	6	U	6	U	6	U	7	U
Bromoform		6	U	6	U	6	U	6	U	6	U	7	U
4-Methyl-2-pentanone		12	U	12	U	12	U	12	U	12	U	14	U
2-Hexanone		12	U	12	U	12	U	12	U	12	U	14	U
Tetrachloroethene		6	U	6	U	6	U	6	U	6	U	7	U
1,1,2,2-Tetrachloroethane		6	U	6	U	6	U	6	U	6	U	7	U

*= Outside of EPA CLP QC limits.

Cust ID:	E75S125	E75S100	E75S75	E75S50	E75S25	E0S125
RFW#:	005	006	007	008	009	010
Toluene	6 U	6 U	6 U	6 U	6 U	7 U
Chlorobenzene	6 U	6 U	6 U	6 U	6 U	7 U
Ethylbenzene	6 U	6 U	6 U	6 U	6 U	7 U
Styrene	6 U	6 U	6 U	6 U	6 U	7 U
Xylene (total)	6 U	6 U	6 U	6 U	6 U	7 U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, HSL LIST

RFW Batch Number: 9508G629 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Report Date: 08/29/95 11:10 Page: 3a

	Cust ID:	E0S125	E0S100	E0S75	E0S50	E0S25	E0S25
Sample Information	RFW#:	010	011	012	013	014	014
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	ug/Kg REPREP	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg REPREP
Surrogate Recovery	Toluene-d8	111 %	106 %	103 %	110 %	109 %	135 * %
	4-Bromofluorobenzene	88 %	75 %	88 %	86 %	64 * %	71 * %
	1,2-Dichloroethane-d4	100 %	92 %	103 %	95 %	88 %	106 %
Chloromethane		14 U	13 U	13 U	14 U	12 U	12 U
Bromomethane		14 U	13 U	13 U	14 U	12 U	12 U
Vinyl chloride		14 U	13 U	13 U	14 U	12 U	12 U
Chloroethane		14 U	13 U	13 U	14 U	12 U	12 U
Methylene Chloride		7 U	6 U	7 U	7 U	6 U	6 U
Acetone		25 B	19 B	13 U	14 U	16 B	12 U
Carbon Disulfide		7 U	6 U	7 U	7 U	6 U	6 U
1,1-Dichloroethene		7 U	6 U	7 U	7 U	6 U	6 U
1,1-Dichloroethane		7 U	6 U	7 U	7 U	6 U	6 U
1,2-Dichloroethene (total)		7 U	6 U	7 U	7 U	6 U	6 U
Chloroform		7 U	6 U	7 U	7 U	6 U	6 U
1,2-Dichloroethane		7 U	6 U	7 U	7 U	6 U	6 U
2-Butanone		14 U	13 U	13 U	14 U	12 U	12 U
1,1,1-Trichloroethane		7 U	6 U	7 U	7 U	6 U	6 U
Carbon Tetrachloride		7 U	6 U	7 U	7 U	6 U	6 U
Vinyl acetate		14 U	13 U	13 U	14 U	12 U	12 U
Bromodichloromethane		7 U	6 U	7 U	7 U	6 U	6 U
1,2-Dichloropropane		7 U	6 U	7 U	7 U	6 U	6 U
cis-1,3-Dichloropropene		7 U	6 U	7 U	7 U	6 U	6 U
Trichloroethene		7 U	6 U	7 U	7 U	6 U	6 U
Dibromochloromethane		7 U	6 U	7 U	7 U	6 U	6 U
1,1,2-Trichloroethane		7 U	6 U	7 U	7 U	6 U	6 U
Benzene		7 U	6 U	7 U	7 U	6 U	6 U
trans-1,3-Dichloropropene		7 U	6 U	7 U	7 U	6 U	6 U
Bromoform		7 U	6 U	7 U	7 U	6 U	6 U
4-Methyl-2-pentanone		14 U	13 U	13 U	14 U	12 U	12 U
2-Hexanone		14 U	13 U	13 U	14 U	12 U	12 U
Tetrachloroethene		7 U	6 U	7 U	7 U	6 U	6 U
1,1,2,2-Tetrachloroethane		7 U	6 U	7 U	7 U	6 U	6 U

*= Outside of EPA CLP QC limits.

Cust ID:	E0S125	E0S100	E0S75	E0S50	E0S25	E0S25
RFW#:	010 REPREP	011	012	013	014	014 REPREP
Toluene	7 U	6 U	7 U	7 U	6 U	6 U
Chlorobenzene	7 U	6 U	7 U	7 U	6 U	6 U
Ethylbenzene	7 U	6 U	7 U	7 U	6 U	6 U
Styrene	7 U	6 U	7 U	7 U	6 U	6 U
Xylene (total)	7 U	6 U	7 U	7 U	6 U	6 U

*= Outside of EPA CLP QC limits.

	Cust ID:	E25S125	E25S125	E25S100	E25S75	E25S75	E25S50
Sample Information	RFW#:	015	015	016	017	017	018
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	ug/Kg	ug/Kg REPREP	ug/Kg	ug/Kg	ug/Kg REPREP	ug/Kg
Surrogate Recovery	Toluene-d8	113 %	125 * %	108 %	97 %	130 * %	112 %
	4-Bromofluorobenzene	70 * %	85 %	89 %	67 * %	82 %	89 %
	1,2-Dichloroethane-d4	96 %	112 %	112 %	84 %	108 %	105 %
Chloromethane		13 U	13 U	13 U	13 U	13 U	12 U
Bromomethane		13 U	13 U	13 U	13 U	13 U	12 U
Vinyl chloride		13 U	13 U	13 U	13 U	13 U	12 U
Chloroethane		13 U	13 U	13 U	13 U	13 U	12 U
Methylene Chloride		7 U	7 U	6 U	6 U	6 U	6 U
Acetone		13 B	13 U	25 B	13 U	13 U	14 B
Carbon Disulfide		7 U	7 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene		7 U	7 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane		7 U	7 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (total)		7 U	7 U	6 U	6 U	6 U	6 U
Chloroform		7 U	7 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane		7 U	7 U	6 U	6 U	6 U	6 U
2-Butanone		13 U	13 U	13 U	13 U	13 U	12 U
1,1,1-Trichloroethane		7 U	7 U	6 U	6 U	6 U	6 U
Carbon Tetrachloride		7 U	7 U	6 U	6 U	6 U	6 U
Vinyl acetate		13 U	13 U	13 U	13 U	13 U	12 U
Bromodichloromethane		7 U	7 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane		7 U	7 U	6 U	6 U	6 U	6 U
cis-1,3-Dichloropropene		7 U	7 U	6 U	6 U	6 U	6 U
Trichloroethene		7 U	7 U	6 U	6 U	6 U	6 U
Dibromochloromethane		7 U	7 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane		7 U	7 U	6 U	6 U	6 U	6 U
Benzene		7 U	7 U	6 U	6 U	6 U	6 U
trans-1,3-Dichloropropene		7 U	7 U	6 U	6 U	6 U	6 U
Bromoform		7 U	7 U	6 U	6 U	6 U	6 U
4-Methyl-2-pentanone		13 U	13 U	13 U	13 U	13 U	12 U
2-Hexanone		13 U	13 U	13 U	13 U	13 U	12 U
Tetrachloroethene		7 U	7 U	6 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane		7 U	7 U	6 U	6 U	6 U	6 U

*= Outside of EPA CLP QC limits.

Cust ID:	E25S125	E25S125	E25S100	E25S75	E25S75	E25S50
RFW#:	015	015 REPREP	016	017	017 REPREP	018
Toluene	7 U	7 U	6 U	6 U	6 U	6 U
Chlorobenzene	7 U	7 U	6 U	6 U	6 U	6 U
Ethylbenzene	7 U	7 U	6 U	6 U	6 U	6 U
Styrene	7 U	7 U	6 U	6 U	6 U	6 U
Xylene (total)	7 U	7 U	6 U	6 U	6 U	6 U

*= Outside of EPA CLP QC limits.

	Cust ID:	E25S25		E50S25		E50S25 REPREP		E50S50		E50S50 REPREP		E50S75	
Sample Information	RFW#:	019		020		020		021		021		022	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1		1		1		1		1		1	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Toluene-d8	105	%	138 *	%	129 *	%	130 *	%	125 *	%	113	%
	4-Bromofluorobenzene	86	%	68 *	%	73 *	%	67 *	%	79	%	85	%
	1,2-Dichloroethane-d4	103	%	101	%	106	%	101	%	96	%	105	%
Chloromethane		12	U	12	U	12	U	12	U	12	U	13	U
Bromomethane		12	U	12	U	12	U	12	U	12	U	13	U
Vinyl chloride		12	U	12	U	12	U	12	U	12	U	13	U
Chloroethane		12	U	12	U	12	U	12	U	12	U	13	U
Methylene Chloride		6	U	6	U	6	U	6	U	6	U	6	U
Acetone		16	B	15	B	12	U	15	B	12	U	13	B
Carbon Disulfide		6	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethene		6	U	6	U	6	U	6	U	6	U	6	U
1,1-Dichloroethane		6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethene (total)		6	U	6	U	6	U	6	U	6	U	6	U
Chloroform		6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloroethane		6	U	6	U	6	U	6	U	6	U	6	U
2-Butanone		12	U	12	U	12	U	12	U	12	U	13	U
1,1,1-Trichloroethane		6	U	6	U	6	U	6	U	6	U	6	U
Carbon Tetrachloride		6	U	6	U	6	U	6	U	6	U	6	U
Vinyl acetate		12	U	12	U	12	U	12	U	12	U	13	U
Bromodichloromethane		6	U	6	U	6	U	6	U	6	U	6	U
1,2-Dichloropropane		6	U	6	U	6	U	6	U	6	U	6	U
cis-1,3-Dichloropropene		6	U	6	U	6	U	6	U	6	U	6	U
Trichloroethene		6	U	6	U	6	U	6	U	6	U	6	U
Dibromochloromethane		6	U	6	U	6	U	6	U	6	U	6	U
1,1,2-Trichloroethane		6	U	6	U	6	U	6	U	6	U	6	U
Benzene		6	U	6	U	6	U	6	U	6	U	6	U
trans-1,3-Dichloropropene		6	U	6	U	6	U	6	U	6	U	6	U
Bromoform		6	U	6	U	6	U	6	U	6	U	6	U
4-Methyl-2-pentanone		12	U	12	U	12	U	12	U	12	U	13	U
2-Hexanone		12	U	12	U	12	U	12	U	12	U	13	U
Tetrachloroethene		6	U	6	U	6	U	6	U	6	U	6	U
1,1,2,2-Tetrachloroethane		6	U	6	U	6	U	6	U	6	U	6	U

*= Outside of EPA CLP QC Limits.

Cust ID:	E25S25	E50S25	E50S25	E50S50	E50S50	E50S75
RFW#:	019	020	020 REPREP	021	021 REPREP	022
Toluene	6 U	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	6 U	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	6 U	6 U	6 U	6 U	6 U	6 U
Styrene	6 U	6 U	6 U	6 U	6 U	6 U
Xylene (total)	6 U	6 U	6 U	6 U	6 U	6 U

*= Outside of EPA CLP QC limits.

	Cust ID:	E50S100	E50S125	E50S125	VBLK	VBLK BS	VBLK BSD
Sample Information	RFW#:	023	024	024	95GVF210-MB1	95GVF210-MB1	95GVF210-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	ug/Kg	ug/Kg	ug/Kg REPREP	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	102 %	136 * %	117 %	96 %	104 %	98 %
	4-Bromofluorobenzene	89 %	70 * %	76 %	95 %	107 %	103 %
	1,2-Dichloroethane-d4	103 %	102 %	98 %	91 %	103 %	103 %
Chloromethane		12 U	12 U	12 U	10 U	10 U	10 U
Bromomethane		12 U	12 U	12 U	10 U	10 U	10 U
Vinyl chloride		12 U	12 U	12 U	10 U	10 U	10 U
Chloroethane		12 U	12 U	12 U	10 U	10 U	10 U
Methylene Chloride		6 U	6 U	6 U	5 U	5 U	5 U
Acetone		12 U	12 U	12 U	15	19 B	17 B
Carbon Disulfide		6 U	6 U	6 U	5 U	5 U	5 U
1,1-Dichloroethene		6 U	6 U	6 U	5 U	103 %	98 %
1,1-Dichloroethane		6 U	6 U	6 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		6 U	6 U	6 U	5 U	5 U	5 U
Chloroform		6 U	6 U	6 U	5 U	5 U	5 U
1,2-Dichloroethane		6 U	6 U	6 U	5 U	5 U	5 U
2-Butanone		12 U	12 U	12 U	10 U	10 U	10 U
1,1,1-Trichloroethane		6 U	6 U	6 U	5 U	5 U	5 U
Carbon Tetrachloride		6 U	6 U	6 U	5 U	5 U	5 U
Vinyl acetate		12 U	12 U	12 U	10 U	10 U	10 U
Bromodichloromethane		6 U	6 U	6 U	5 U	5 U	5 U
1,2-Dichloropropane		6 U	6 U	6 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		6 U	6 U	6 U	5 U	5 U	5 U
Trichloroethene		6 U	6 U	6 U	5 U	107 %	103 %
Dibromochloromethane		6 U	6 U	6 U	5 U	5 U	5 U
1,1,2-Trichloroethane		6 U	6 U	6 U	5 U	5 U	5 U
Benzene		6 U	6 U	6 U	5 U	114 %	114 %
trans-1,3-Dichloropropene		6 U	6 U	6 U	5 U	5 U	5 U
Bromoform		6 U	6 U	6 U	5 U	5 U	5 U
4-Methyl-2-pentanone		12 U	12 U	12 U	10 U	10 U	10 U
2-Hexanone		12 U	12 U	12 U	10 U	10 U	10 U
Tetrachloroethene		6 U	6 U	6 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		6 U	6 U	6 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

Cust ID:	E50S100	E50S125	E50S125	VBLK	VBLK BS	VBLK BSD
RFW#:	023	024	024 REPREP	95GVF210-MB1	95GVF210-MB1	95GVF210-MB1
Toluene	6 U	6 U	6 U	5 U	109 %	110 %
Chlorobenzene	6 U	6 U	6 U	5 U	113 %	115 %
Ethylbenzene	6 U	6 U	6 U	5 U	5 U	5 U
Styrene	6 U	6 U	6 U	5 U	5 U	5 U
Xylene (total)	6 U	6 U	6 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, HSL LIST
Report Date: 08/29/95 11:10

RFW Batch Number: 9508G629 Client: TAT-Pier Drum Site Work Order: 00000-000-000-0 Page: 7a

Sample Information	Cust ID:	VBLK	VBLK BS	VBLK BSD	VBLK	VBLK BS	VBLK
	RFW#:	95GVT193-MB1	95GVT193-MB1	95GVT193-MB1	95GVT194-MB1	95GVT194-MB1	95GVF211-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1	1	1	1	1	1
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	101 %	98 %	96 %	103 %	100 %	99 %
	4-Bromofluorobenzene	95 %	94 %	91 %	97 %	95 %	97 %
	1,2-Dichloroethane-d4	99 %	105 %	111 %	102 %	101 %	106 %
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane		10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride		5 U	5 U	5 U	5 U	5 U	5 U
Acetone		10 U	18	23	12	12 B	6 J
Carbon Disulfide		5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	97 %	102 %	5 U	100 %	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	5 U	5 U	5 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone		10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate		10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		5 U	87 %	89 %	5 U	83 %	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U
Benzene		5 U	100 %	108 %	5 U	99 %	5 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone		10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

Cust ID:	VBLK	VBLK BS	VBLK BSD	VBLK	VBLK BS	VBLK
RFW#:	95GVT193-MB1	95GVT193-MB1	95GVT193-MB1	95GVT194-MB1	95GVT194-MB1	95GVF211-MB1
Toluene	5 U	94 %	100 %	5 U	97 %	5 U
Chlorobenzene	5 U	93 %	100 %	5 U	98 %	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

	Cust ID:	VBLK BS		VBLK		VBLK BS		VBLK		VBLK BS	
Sample Information	RFW#:	95GVF211-MB1		95GVF212-MB1		95GVF212-MB1		95GVT196-MB1		95GVT196-MB1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1		1		1		1		1	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Toluene-d8	98	%	100	%	97	%	98	%	104	%
	4-Bromofluorobenzene	97	%	96	%	103	%	92	%	100	%
	1,2-Dichloroethane-d4	103	%	102	%	99	%	99	%	106	%
Chloromethane		10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U
Methylene Chloride		5	U	5	U	5	U	5	U	5	U
Acetone		10	U	10	U	10	U	14		10	U
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		99	%	5	U	99	%	5	U	97	%
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U
Vinyl acetate		10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U
Trichloroethene		86	%	5	U	89	%	5	U	88	%
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U
Benzene		94	%	5	U	107	%	5	U	99	%
trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

Cust ID:	VBLK BS	VBLK	VBLK BS	VBLK	VBLK BS
RFW#:	95GVF211-MB1	95GVF212-MB1	95GVF212-MB1	95GVT196-MB1	95GVT196-MB1
Toluene	95 %	5 U	97 %	5 U	98 %
Chlorobenzene	96 %	5 U	99 %	5 U	99 %
Ethylbenzene	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site Level:(low/med)LOW

RFW Lot No.: 9508G629

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	SP-SE	107	77	91		0
02	SP-SEMS	108	88	107		0
03	SP-SEMSD	115	90	120		0
04	SP-SW	107	84	90		0
05	SP-N	100	90	96		0
06	S75E100	105	89	96		0
07	E75S125	84	93	94		0
08	E75S100	86	104	97		0
09	E75S75	99	92	95		0
10	E75S50	112	98	107		0
11	E75S25	112	82	99		0
12	E0S125	113	78	99		0
13	E0S125RE	111	88	100		0
14	E0S100	106	75	92		0
15	E0S75	103	88	103		0
16	E0S50	110	86	95		0
17	E0S25	109	64 *	88		1
18	E0S25RE	135 *	71 *	106		2
19	E25S125	113	70 *	96		1
20	E25S125RE	125 *	85	112		1
21	E25S100	108	89	112		0
22	E25S75	97	67 *	84		1
23	E25S75RE	130 *	82	108		1
24	E25S50	112	89	105		0
25	E25S25	105	86	103		0
26	E50S25	138 *	68 *	101		2
27	E50S25RE	129 *	73 *	106		2

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = 4-Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site Level:(low/med)LOW

RFW Lot No.: 9508G629

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
28	E50S50	130 *	67 *	101		2
29	E50S50RE	125 *	79	96		1
30	E50S75	113	85	105		0
31	E50S100	102	89	103		0
32	E50S125	136 *	70 *	102		2
33	E50S125RE	117	76	98		0
34	VBLKGVF210-MB1	96	95	91		0
35	VBLKGVF210-MB1 BS	104	107	103		0
36	VBLKGVF210-MB1 BSD	98	103	103		0
37	VBLKGVT193-MB1	101	95	99		0
38	VBLKGVT193-MB1 BS	98	94	105		0
39	VBLKGVT193-MB1 BSD	96	91	111		0
40	VBLKGVT194-MB1	103	97	102		0
41	VBLKGVT194-MB1 BS	100	95	101		0
42	VBLKGVF211-MB1	99	97	106		0
43	VBLKGVF211-MB1 BS	98	97	103		0
44	VBLKGVF212-MB1	100	96	102		0
45	VBLKGVF212-MB1 BS	97	103	99		0
46	VBLKGVT196-MB1	98	92	99		0
47	VBLKGVT196-MB1 BS	104	100	106		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = 4-Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 00000-000-000-0

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629-001

MATRIX Spike - Sample No.: SP-SE Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	57.5	0	58.8	102	59-172
Trichloroethene	57.5	0	52.0	90	62-137
Benzene	57.5	0	62.4	108	66-142
Toluene	57.5	0	61.6	107	59-139
Chlorobenzene	57.5	0	57.3	100	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	57.5	60.2	105	2	22	59-172
Trichloroethene	57.5	52.4	91	1	24	62-137
Benzene	57.5	66.5	116	7	21	66-142
Toluene	57.5	64.6	112	4	21	59-139
Chlorobenzene	57.5	59.6	104	3	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVT193-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	48.3	97	59-172
Trichloroethene	50.0	0	43.4	87	62-137
Benzene	50.0	0	50.0	100	66-142
Toluene	50.0	0	47.2	94	59-139
Chlorobenzene	50.0	0	46.7	93	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	51.2	102	5	22	59-172
Trichloroethene	50.0	44.5	89	2	24	62-137
Benzene	50.0	54.1	108	7	21	66-142
Toluene	50.0	50.0	100	6	21	59-139
Chlorobenzene	50.0	49.8	100	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVT194-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	49.9	100	59-172
Trichloroethene	50.0	0	41.7	83	62-137
Benzene	50.0	0	49.7	99	66-142
Toluene	50.0	0	48.5	97	59-139
Chlorobenzene	50.0	0	49.0	98	60-133

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVT196-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	48.3	97	59-172
Trichloroethene	50.0	0	44.0	88	62-137
Benzene	50.0	0	49.3	99	66-142
Toluene	50.0	0	48.8	98	59-139
Chlorobenzene	50.0	0	49.5	99	60-133

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVF210-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	51.7	103	59-172
Trichloroethene	50.0	0	53.6	107	62-137
Benzene	50.0	0	56.8	114	66-142
Toluene	50.0	0	54.4	109	59-139
Chlorobenzene	50.0	0	56.6	113	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	49.1	98	5	22	59-172
Trichloroethene	50.0	51.7	103	3	24	62-137
Benzene	50.0	56.8	114	0	21	66-142
Toluene	50.0	54.8	110	0	21	59-139
Chlorobenzene	50.0	57.5	115	1	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVF211-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	49.4	99	59-172
Trichloroethene	50.0	0	42.8	86	62-137
Benzene	50.0	0	47.1	94	66-142
Toluene	50.0	0	47.4	95	59-139
Chlorobenzene	50.0	0	47.9	96	60-133

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: TAT-Pier Drum Site RFW Lot No.: 9508G629

MATRIX Spike - Sample No.: VBLKGVF212-MB1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	49.7	99	59-172
Trichloroethene	50.0	0	44.6	89	62-137
Benzene	50.0	0	53.7	107	66-142
Toluene	50.0	0	48.3	97	59-139
Chlorobenzene	50.0	0	49.7	99	60-133

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

144

PROJ. NO. 1359 | PROJECT NAME PIER DRUM BRADENTON FL

SAMPLERS (Signature)

JMDM

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: (Gal G (ext org, Pest) (EP) (herb); 40 ml vial (VOA); 250 ml G (TOX); P (Bod, TSS, Cl, Fl, SO4, etc); ILG (pheno) (O&G) (pest); ILP (met, hard) (Toc, COD, N, P etc); 0.5-ILP (S"); ½ gal or ILP (CN); 8 oz G (ext org, pest, herb) (met) (EP); 4 oz G (VOA); P or G (CN, S", N, P, COD, etc); 8 oz G (ext org, pest, herb, VOA); 8 oz G (EP) (met, CN, S"; FP) (FP, BTU))	Soil/Sed/Sldg	Waste	Misc	REMARKS/TAG NUMBERS
SP-SE	8/16/95	1730	X		SP-SE	2				25945, 46
SP-SW	8/16/95	1720	X		SP-SW	2				25947, 48
SP-N	8/16	1700	X		SP-N	2				25949, 50
S75E100	8/16	1650	X		S75 E100	2				25944, 43
E75S125	8/16	1630	X		E75 S125	2				25941, 42
E75S100	8/16	1620	X		E75 S100	2				25939, 40
E75S75	8/16	1610	X		E75 S 75	2				25938, 37
E75S50	8/16	1555	X		E75 S 50	2				25935, 36
E75S25	8/16	~~1545~~	X		E75 S 25	2				25933, 34
E0S125	8/16	1320	X		E0 S 125	2				25911, 12
E0S100	8/16	1315	X		E0 S 100	2				25909, 10
E0S75	8/16	1310	X		E0 S 75	2				25903, 04
E0S50	8/16	1305	X		E0 S50	2				25907, 08
E0S25	8/16	1300	X		E0 S25	2				25905, 06

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
		R. Minter 1125 8/18/95				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory, Pink copy retained by laboratory; Yellow copy retained by samplers, Blue copy extra copy as needed.

T4- 2380

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

145

PROJ. NO.	PROJECT NAME	
1359	PIER DRUM	BRADENTON FL

SAMPLERS (Signature)
JMRM

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: Gal G (ext org, Pest) (EP) (herb)	40 ml vial (VOA)	250 ml G (TOX)	P (Bod, TSS, Cl, Fl, So4, etc)	ILG (pheno) (O&G) (pest)	ILP (met, hard) (Toc, COD, N, P, etc)	0.5-ILP (S")	½ gal or ILP (CN)	8 oz G (ext org, pest, herb) (met) (EP)	4 oz G (VOA)	P or G (CN, S" N, P, COD, etc)	8 oz G (ext org, pest, herb, VOA)	8 oz G (EP) (met, CN, S", FP) (FP, BTU)	Soil/Sed/Sldg	Waste	Misc	REMARKS/TAG NUMBERS
E25S125	8/16/95	1430	X		E25 S125	2									1	1							25921, 22
E25S100	8/16	1420	X		E25 S100	2									1	1							25919, 20
E25S75	8/16	1410	X		E25 S75	2									1	1							25917, 18
E25S50	8/16	1400	X		E25 S50	2									1	1							25915, 16
E25S25	8/16	1350	X		E25 S25	2									1	1							25913, 14
E50S25	8/16	1445	X		E50 S25	2									1	1							25923, 24
E50S50	8/16	1455	X		E50 S50	2									1	1							25925, 26
E50S75	8/16	1515	X		E50 S75	2									1	1							25927, 28
E50S100	8/16	1525	X		E50 S100	2									1	1							25929, 30
E50S125	8/16	1535	X		E50 S125	2									1	1							25931, 32

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
		R. Minter 11/25 8/18/95				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory, Pink copy retained by laboratory; Yellow copy retained by samplers; Blue copy extra copy as needed.

T4-2381

APPENDIX G

AUGUST 21, 1995 ANALYTICAL REPORT

(118 Sheets)

WESTON® MANAGERS DESIGNERS/CONSULTANTS
Building 300, Suite 325
1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208
404-352-4147 • Fax 404-352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: FILE

FROM: Paula C. MacLaren
Analytical Coordinator

THRU: W. Scott Butterfield
TATL, Region IV

SUBJECT: Pier Drum Site Analytical Data
TDD# 04-9507-L011-0528

DATE: 21 August 1995

Pace, Inc. laboratory analyzed 7 water samples taken at the Pier Drum Site on 31 July 1995 for the following parameters:

volatiles
RCRA metals
cobalt

The analytical report was received within the required 3-day turn around time period.

All sample analysis hold times were met.

The laboratory blank showed no contamination of the analytical processes.

A volatile matrix spike was performed on water sample EP-1. All spike component percent recoveries were within the QA/QC guidelines of 80% to 120%. All surrogate recoveries and laboratory control sample recoveries were also within the guidelines.

A metals matrix spike was performed on water sample EP-1, (water sample MW-E was used for lead matrix spike). All spike component percent recoveries were within the QA/QC recommendation of 80% to 120%. All laboratory control sample percent recoveries were also within the recommendations.

A summary of the sample data can be found on the following pages.

cc. Jim Webster
John Wright

PIER DRUM SITE
ANALYTICAL DATA

WATER SAMPLES

VOLATILES (ug/L)

SAMPLE ID	MWE	MWW	MW-S	MW-N
Methyl Tert-Butyl Ether	ND	ND	10	23

RCRA METALS/ COBALT (ug/L)

Arsenic	12	ND	ND	10
Barium	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND
Chromium	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND
Lead	8	13	24	7
Mercury	ND	ND	ND	ND
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND

Notes: ND - Not detected

PIER DRUM SITE
ANALYTICAL DATA

WATER SAMPLES

VOLATILES (ug/L)

SAMPLE ID	MWWD	EP-1	TB
8240 Compounds	ND	ND	ND

RCRA METALS/ COBALT (ug/L)

Arsenic	ND	11	ND
Barium	ND	ND	ND
Cadmium	ND	ND	ND
Chromium	ND	ND	ND
Cobalt	ND	ND	ND
Lead	6	ND	ND
Mercury	ND	ND	ND
Selenium	ND	ND	ND
Silver	ND	ND	ND

Notes: ND - Not detected

[redacted]U. S[redacted]IRON[redacted]ITAL[redacted]TEC[redacted]AGE[redacted] [redacted] [redacted] C[redacted]OF C[redacted]ODY[redacted]ORD[redacted] [redacted] [redacted] [redacted]IRON[redacted]TAL[redacted]VICE[redacted]ISIC[redacted]
REGION 4 TAT

COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

D20801.571

PROJ. NO.	PROJECT NAME
1359	PIEDMONT

SAMPLERS (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: (Gal G (ext org, Pest) (EP) (herb); 40 ml vial (VOA) ACETONE + WATER; 250 ml G (TOX); P (Bod, TSS, Cl, Fl, Sol, etc); ILG (phen) (O&G) (pest); ILP (met)(herb) (Toc, COD, N, P, etc) ACETONE; 0.5-ILP (S=); ¼ gal or ILP (CN); 8 oz G (ext org, pest, herb) (met) (EP); 4 oz G (VOA); P or G (CN, S=, N, P, COD, etc); 8 oz G (ext org, pest, herb, VOA); 8 oz G (EP) (met, CN, S=, FP) (FP, BTU)	REMARKS/TAG NUMBERS
MWE	7/31	1405		X	MW-E (67098.0)	4	3 1	T4-25634,5,6,7
MWW	7/31	1330		X	MW-W (67099.0)	4	3 1	T4-25626,7,8,9
MW-S	7/31	1341		X	MW-S (67100.8)	4	3 1	T4-26530,1,2,3
MW-N	7/31	1420		X	MW-N (67101.9)	4	3 1	T4-25638,9,40,41
MWWD	7/31	1337		X	MW-WD (67102.4)	4	3 1	T4-25642,3,4 5
EP-1	7/31	1440		X	EP-1 (67103.8)	4	3 1	T4-25646,7,8,9
TB	7/31	0000		X	TB (67104.0)	4	3 1	T4-25650,1,2,3

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[signature]	8/1 8:45	[signature]				PRESERVATIVE FOR METALS — HNO3
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

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T4-2377

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

RECEIVED
AUG 07 1995

August 04, 1995

Ms. Paula MacLaren
Roy F. Weston, Inc.
1575 Northside Drive
Suite 325
Atlanta, GA 30318

RE: PACE Project No. 250801.571
Client Reference: Pier Drum Site July 31, 1995

Dear Ms. MacLaren:

Enclosed is the report of laboratory analyses for samples received August 01, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jackie Ciordia

Jackie Ciordia
Project Manager

Enclosures

5460 Beaumont Center Blvd.
Tampa, FL 33634
TEL: 813-884-8268
FAX: 813-888-6382

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PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Roy F. Weston, Inc.
1575 Northside Drive
Suite 325
Atlanta, GA 30318

August 04, 1995
PACE Project Number: 25080157

Attn: Ms. Paula MacLaren

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0670982	
Date Collected:			07/31/95	
Date Received:			08/01/95	
			MW-E	
Parameter	Units	PRL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	12	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	8	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0670982	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-E	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	ND	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	100	08/01/95
Toluene-d8 - Surrogate	%		104	08/01/95
Bromofluorobenzene - Surrogate	%		102	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

Parameter	Units	PRL		DATE ANALYZED
PACE Sample Number:			90 0670990	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-W	
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	ND	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	13	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0670990	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-W	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	ND	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	102	08/01/95
Toluene-d8 - Surrogate	%		102	08/01/95
Bromofluorobenzene - Surrogate	%		102	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671008	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-S	
Parameter	Units	PRL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	ND	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	24	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Parameter	Units	PRL		DATE ANALYZED
PACE Sample Number:			90 0671008	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-S	
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	10	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	102	08/01/95
Toluene-d8 - Surrogate	%		102	08/01/95
Bromofluorobenzene - Surrogate	%		102	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Parameter	Units	PRL		DATE ANALYZED
PACE Sample Number:			90 0671016	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-N	
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	10	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	7	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 2508015

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671016	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-N	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	23	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	102	08/01/95
Toluene-d8 - Surrogate	%		100	08/01/95
Bromofluorobenzene - Surrogate	%		106	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671024	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-WD	
Parameter	Units	PRL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	ND	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	6	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671024	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			MW-WD	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	ND	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	102	08/01/95
Toluene-d8 - Surrogate	%		102	08/01/95
Bromofluorobenzene - Surrogate	%		104	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671032	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			EP-1	
Parameter	Units	PRL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	11	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	ND	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Ms. Paula MacLaren
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August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671032	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			EP-1	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	ND	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	104	08/01/95
Toluene-d8 - Surrogate	%		104	08/01/95
Bromofluorobenzene - Surrogate	%		102	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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REPORT OF LABORATORY ANALYSIS

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August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671040	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			TB	
Parameter	Units	PRL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Arsenic EPA 206.2	ug/L	10	ND	08/03/95
Barium ICP	mg/L	0.3	ND	08/02/95
Cadmium ICP	mg/L	0.005	ND	08/02/95
Chromium ICP	mg/L	0.05	ND	08/02/95
Cobalt ICP	mg/L	0.05	ND	08/02/95
Date Digested - Mercury			08/02/95	
Lead EPA 239.2	ug/L	5	ND	08/04/95
Mercury EPA 245.1	ug/L	0.2	ND	08/04/95
Selenium EPA 270.2	ug/L	10	ND	08/03/95
Silver ICP	mg/L	0.02	ND	08/02/95
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
Acetone	ug/L	50	ND	08/01/95
Benzene	ug/L	1.0	ND	08/01/95
Bromodichloromethane	ug/L	5.0	ND	08/01/95
Bromoform	ug/L	5.0	ND	08/01/95
Bromomethane	ug/L	10	ND	08/01/95
2-Butanone (MEK)	ug/L	50	ND	08/01/95
Carbon Disulfide	ug/L	10	ND	08/01/95
Carbon Tetrachloride	ug/L	5.0	ND	08/01/95
Chlorobenzene	ug/L	5.0	ND	08/01/95
Chloroethane	ug/L	5.0	ND	08/01/95
2-Chloroethylvinyl ether	ug/L	10	ND	08/01/95
Chloroform	ug/L	5.0	ND	08/01/95
Chloromethane	ug/L	10	ND	08/01/95
Dibromochloromethane	ug/L	5.0	ND	08/01/95
cis-1,2-Dichloroethene	ug/L	5.0	ND	08/01/95
1,1-Dichloroethane	ug/L	5.0	ND	08/01/95
1,2-Dichloroethane	ug/L	3.0	ND	08/01/95
1,1-Dichloroethylene	ug/L	5.0	ND	08/01/95
trans-1,2-Dichloroethylene	ug/L	5.0	ND	08/01/95

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REPORT OF LABORATORY ANALYSIS

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August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

PACE Sample Number:			90 0671040	
Date Collected:			07/31/95	
Date Received:			08/01/95	
Client Sample ID:			TB	
Parameter	Units	PRL		DATE ANALYZED
ORGANIC ANALYSIS				
8240 VOLATILE ORGANIC COMPOUNDS				
1,2-Dichloropropane	ug/L	5.0	ND	08/01/95
cis-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
trans-1,3-Dichloropropene	ug/L	5.0	ND	08/01/95
Ethylbenzene	ug/L	5.0	ND	08/01/95
2-Hexanone	ug/L	50	ND	08/01/95
Methylene Chloride	ug/L	5.0	ND	08/01/95
Methyl Tert-Butyl Ether	ug/L	5.0	ND	08/01/95
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND	08/01/95
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND	08/01/95
Tetrachloroethylene	ug/L	5.0	ND	08/01/95
Toluene	ug/L	5.0	ND	08/01/95
1,1,1-Trichloroethane	ug/L	5.0	ND	08/01/95
1,1,2-Trichloroethane	ug/L	5.0	ND	08/01/95
Trichloroethylene	ug/L	5.0	ND	08/01/95
Vinyl Acetate	ug/L	50	ND	08/01/95
Vinyl Chloride	ug/L	10	ND	08/01/95
Xylenes, total	ug/L	5.0	ND	08/01/95
1,2-Dichlorethane-d4 - Surrogate	%	5.0	102	08/01/95
Toluene-d8 - Surrogate	%		100	08/01/95
Bromofluorobenzene - Surrogate	%		102	08/01/95
Styrene	ug/L	5.0	ND	08/01/95

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REPORT OF LABORATORY ANALYSIS

Ms. Paula MacLaren
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August 04, 1995
PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

These data have been reviewed and are approved for release.

Michael F. Valder
Manager, Inorganic Chemistry

Michael W. Palmer
Manager, Organic Chemistry

Client Reference: Pier Drum Site July 31, 1995

ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Arsenic EPA 206.2
Batch: 90 62682
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Arsenic EPA 206.2	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 EP-1	Spike	Spike Recv	Spike Dupl Recv	RPI
Arsenic EPA 206.2	ug/L	10	11	40	110%	114%	4

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Arsenic EPA 206.2	ug/L	10	40	98%

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Client Reference: Pier Drum Site July 31, 1995

Cadmium ICP
Batch: 90 62687
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Aluminum ICP	mg/L	0.1	ND
Antimony ICP	mg/L	0.2	ND
Barium ICP	mg/L	0.3	ND
Beryllium ICP	mg/L	0.004	ND
Boron, ICP	mg/L	0.2	ND
Cadmium ICP	mg/L	0.005	ND
Chromium ICP	mg/L	0.05	ND
Cobalt ICP	mg/L	0.05	ND
Copper ICP	mg/L	0.05	ND
Iron ICP	mg/L	0.2	ND
Lead ICP	mg/L	0.1	ND
Manganese ICP	mg/L	0.03	ND
Molybdenum, ICP	mg/L	0.2	ND
Nickel ICP	mg/L	0.1	ND
Silver ICP	mg/L	0.02	ND
Zinc ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 EP-1	Spike	Spike Recv	Spike Dupl Recv	RPD
Aluminum ICP	mg/L	0.1	0.6	6	101%	102%	1%
Antimony ICP	mg/L	0.2	ND	2	105%	97%	8%
Barium ICP	mg/L	0.3	ND	0.6	103%	103%	0%
Beryllium ICP	mg/L	0.004	ND	0.2	100%	100%	0%
Boron, ICP	mg/L	0.2	ND	10	101%	101%	0%
Cadmium ICP	mg/L	0.005	ND	0.6	97%	97%	0%
Chromium ICP	mg/L	0.05	ND	0.6	97%	95%	2%
Cobalt ICP	mg/L	0.05	ND	0.6	97%	98%	1%
Copper ICP	mg/L	0.05	ND	0.6	103%	97%	6%
Iron ICP	mg/L	0.2	0.6	25	99%	98%	1%
Manganese ICP	mg/L	0.03	ND	0.4	103%	103%	0%

REPORT OF LABORATORY ANALYSIS

Ms. Paula MacLaren
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QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

Cadmium ICP
Batch: 90 62687
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 FP-1	Spike	Spike Recv	Spike Dupl Recv	RPD
Molybdenum, ICP	mg/L	0.2	ND	2	100%	100%	0%
Nickel ICP	mg/L	0.1	ND	0.6	97%	98%	1%
Silver ICP	mg/L	0.02	ND	0.6	98%	97%	1%
Zinc ICP	mg/L	0.02	0.06	0.6	97%	98%	1%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Aluminum ICP	mg/L	0.1	1	103%
Antimony ICP	mg/L	0.2	1	92%
Barium ICP	mg/L	0.3	1	94%
Beryllium ICP	mg/L	0.004	1	92%
Boron, ICP	mg/L	0.2	10	105%
Cadmium ICP	mg/L	0.005	1	91%
Chromium ICP	mg/L	0.05	1	93%
Cobalt ICP	mg/L	0.05	1	90%
Copper ICP	mg/L	0.05	1	94%
Iron ICP	mg/L	0.2	1	90%
Lead ICP	mg/L	0.1	1	84%
Manganese ICP	mg/L	0.03	1	92%
Molybdenum, ICP	mg/L	0.2	1	88%
Nickel ICP	mg/L	0.1	1	93%
Silver ICP	mg/L	0.02	1	93%
Zinc ICP	mg/L	0.02	1	89%

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Ms. Paula MacLaren
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QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Lead EPA 239.2
Batch: 90 62698
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Lead EPA 239.2	ug/L	5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900670982 MW-E	Spike	Spike Recv	Spike Dupl Recv	RPI
Lead EPA 239.2	ug/L	5	8	40	111%	109%	2

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Lead EPA 239.2	ug/L	5	40	109%

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Mercury EPA 245.1
Batch: 90 62689
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Mercury EPA 245.1	ug/L	0.2	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 EP-1	Spike	Spike Recv	Spike Dupl Recv	RPI
Mercury EPA 245.1	ug/L	0.2	ND	2	99%	103%	4

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Mercury EPA 245.1	ug/L	0.2	4	107%

ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

Selenium EPA 270.2
Batch: 90 62681
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Selenium EPA 270.2	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 FP-1	Spike	Spike Recv	Spike Dupl Recv	RPI
Selenium EPA 270.2	ug/L	10	ND	40	83%	77%	8

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Selenium EPA 270.2	ug/L	10	40	110%

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

8240 VOLATILE ORGANIC COMPOUNDS
Batch: 90 62611
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Acetone	ug/L	50	ND
Benzene	ug/L	1.0	ND
Bromodichloromethane	ug/L	5.0	ND
Bromoform	ug/L	5.0	ND
Bromomethane	ug/L	10	ND
2-Butanone (MEK)	ug/L	50	ND
Carbon Disulfide	ug/L	10	ND
Carbon Tetrachloride	ug/L	5.0	ND
Chlorobenzene	ug/L	5.0	ND
Chloroethane	ug/L	5.0	ND
2-Chloroethylvinyl ether	ug/L	10	ND
Chloroform	ug/L	5.0	ND
Chloromethane	ug/L	10	ND
Dibromochloromethane	ug/L	5.0	ND
cis-1,2-Dichloroethene	ug/L	5.0	ND
1,1-Dichloroethane	ug/L	5.0	ND
1,2-Dichloroethane	ug/L	3.0	ND
1,1-Dichloroethylene	ug/L	5.0	ND
trans-1,2-Dichloroethylene	ug/L	5.0	ND
1,2-Dichloropropane	ug/L	5.0	ND
cis-1,3-Dichloropropene	ug/L	5.0	ND
trans-1,3-Dichloropropene	ug/L	5.0	ND
Ethylbenzene	ug/L	5.0	ND
2-Hexanone	ug/L	50	ND
Methylene Chloride	ug/L	5.0	ND
Methyl Tert-Butyl Ether	ug/L	5.0	ND
4-Methyl-2-Pentanone (MIBK)	ug/L	50	ND
1,1,2,2-Tetrachloroethane	ug/L	5.0	ND
Tetrachloroethylene	ug/L	5.0	ND
Toluene	ug/L	5.0	ND
1,1,1-Trichloroethane	ug/L	5.0	ND

REPORT OF LABORATORY ANALYSIS

Ms. Paula MacLaren
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QUALITY CONTROL DATA

August 04, 1995
PACE Project Number: 250801571

Client Reference: Pier Drum Site July 31, 1995

8240 VOLATILE ORGANIC COMPOUNDS
Batch: 90 62611
Samples: 90 0670982, 90 0670990, 90 0671008, 90 0671016, 90 0671024
90 0671032, 90 0671040

METHOD BLANK:

Parameter	Units	PRL	Method Blank
1,1,2-Trichloroethane	ug/L	5.0	ND
Trichloroethylene	ug/L	5.0	ND
Vinyl Acetate	ug/L	50	ND
Vinyl Chloride	ug/L	10	ND
Xylenes, total	ug/L	5.0	ND
1,2-Dichlorethane-d4 - Surrogate	%	5.0	100
Toluene-d8 - Surrogate	%		104
Bromofluorobenzene - Surrogate	%		102
Styrene	ug/L	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900671032 EP-1	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	1.0	ND	50	100%	100%	0%
Chlorobenzene	ug/L	5.0	ND	50	100%	100%	0%
1,1-Dichloroethylene	ug/L	5.0	ND	50	108%	108%	0%
Toluene	ug/L	5.0	ND	50	98%	100%	2%
Trichloroethylene	ug/L	5.0	ND	50	92%	92%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	PRL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	1.0	50	98%	100%	2%
Chlorobenzene	ug/L	5.0	50	100%	102%	2%
1,1-Dichloroethylene	ug/L	5.0	50	106%	112%	6%
Toluene	ug/L	5.0	50	100%	98%	2%
Trichloroethylene	ug/L	5.0	50	90%	94%	4%

REPORT OF LABORATORY ANALYSIS

FOOTNOTES
for pages 17 through 24

August 04, 1995
PACE Project Number: 25080157

Client Reference: Pier Drum Site July 31, 1995

ND	Not detected at or above the PRL.
PRL	PACE Reporting Limit
RPD	Relative Percent Difference

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AUG 0 7 1995

Case Narrative prepared for: Roy F. Weston, Inc.
Project Name: Pier Drum
PACE Project No.: 250801571

The following narrative pertains to data for sample numbers 90 0679082 - 90 0671040 received at PACE, Inc. on August 1, 1995.

All volatile analyses were performed on a Hewlett-Packard 5890GC/5970MSD on July 27,1995 and August 1, 1995. The only anomaly to be noted is the use of a four-point calibration for acetone in the initial calibration of 7-27-95. This was due to acetone carry-over in the sparger line from a previous saturated analysis.

[redacted]NVIR[redacted]NTAL [redacted]CTIO[redacted]NCY [redacted] CHAI[redacted]USTO[redacted]CORD[redacted] [redacted]NVIRO[redacted]TAL S[redacted]ES [redacted]
REGION 4 TAT

COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

252801.5

PROJ. NO.	PROJECT NAME
1359	PIER DRUM

SAMPLERS (Signature): [signature]

Circle/add Parameters Desired ( ) - Indicates Separate Containers

Water/Wastewater | Soil/Sed/Sldg | Waste | Misc

STA NO.	DATE (95)	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	(Gal G (ext org, Pest) (EP) (herb) / 40 ml vial (VOA) / 250 ml G (TOX) / P (Bod, TSS, Cl, Fl, Sol, etc) / ILG (phenol) (O&G) (pest) / ILP (met, hard) (Toc, COD, N, P, etc) / 0.5-ILP (S⁻) / ½ gal or ILP (CN) / 8 oz G (ext org, pest, herb) (met) (EP) / 4 oz G (VOA) / P or G (CN, S⁻, N, P, COD, etc) / 8 oz G (ext org, pest, herb, VOA) / 8 oz G (EP) (met, CN, S⁻, FP) (FP, BTU)	REMARKS/TAG NUMB
MWE	7/31	1405		X	MW-E 67098.2	4	3	1	T4-25634,5,6,7
MWW	7/31	1330		X	MW-W 67099.0	4	3	1	T4-25626,7,8,9
MW-S	7/31	1341		X	MW-S 67100.8	4	3	1	T4-26530,1,2,
MW-N	7/31	1420		X	MW-N 67101.6	4	3	1	T4-25638,9,40,
MWWD	7/31	1337		X	MW-WD 67102.4	4	3	1	T4-25642,3,4,
EP-1	7/31	1440		X	EP-1 67103.2	4	3	1	T4-25646,7,8,
TB	7/31	0000		X	TB 67104.0	4	3	1	T4-25650,1,2,

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[signature]	8/1 8:45	[signature] 8/1/95				PRESERVATIVE FOR METALS — HN
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory, Pink copy retained by laboratory; Yellow copy retained by samplers, Blue copy extra copy as needed.

T4-2377

Initial Calibration Data
BSL Compounds

Case No: Instrument ID: GC/MS B

Contractor: PACE-Tampa,FL Calibration Date: 07/28/95

Contract No: 674/8740/8760

Minimum $\overline{RF}$ for SPCC is 0.3 Maximum % RSD for CCC is 30%

Laboratory ID:	>83977	>83976	>83975	>83974	>83973						
	RF	RF	RF	RF	RF						
Compound	10.00	20.00	50.00	100.00	150.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
Dichlorodifluoromethane CFC-12	.13876	.15020	.20543	.19134	.17973	.346	.17799	16.748			(Conc=20.0,40.0,100.0,200
Chloromethane	.31777	.33506	.51314	.55036	.57561	.374	.44728	25.476		**	(Conc=20.0,40.0,100.0,200
Vinyl chloride	.28801	.37399	.46614	.47886	.47957	.407	.40730	22.956	*		(Conc=20.0,40.0,100.0,200
Bromomethane	.63608	.66675	.96446	.71777	.56817	.466	.71064	21.371			(Conc=20.0,40.0,100.0,200
Chloroethane	.38767	.42817	.63997	.65801	.74134	.497	.47002	37.746			(Conc=20.0,40.0,100.0,200
Trichlorofluoromethane-FREON11	1.63916	1.64507	2.50084	3.80453	2.51458	.595	2.42084	36.614			(Conc=30.0,60.0,150.0,200
Acrolein	-	-	-	-	-	-	-	-			(Conc=100.0,200.0,500.0,1
1,1-Dichloroethene	.66102	.73737	.94569	1.14881	1.17337	.691	.97774	24.042	*		
Acetone	.54911	-	.37467	.37655	.33834	.677	.38465	28.546			(Conc=100.0,200.0,500.0,1
Methylene Chloride	1.04665	.97090	1.36098	1.36905	1.35071	.771	1.21966	15.945			
Acrylonitrile	.19447	.19619	.29811	.32073	.32866	.710	.26763	25.016			(Conc=100.0,200.0,500.0,1
Carbon Disulfide	2.24571	2.19816	3.51797	3.61876	3.66984	.748	3.04888	24.843			
Methyl t-butyl ether	2.13119	2.07340	3.08153	3.15757	3.17876	.861	2.70349	21.217			
trans-1,2-Dichloroethene	.77037	.75021	1.17110	1.13073	1.14697	.836	.98387	20.779			
Vinyl acetate	1.01000	1.03901	1.56554	1.77151	1.76775	.911	1.42066	26.004			
1,1-Dichloroethane	1.37754	1.41677	2.10961	2.14731	2.16405	.878	1.83795	23.057		**	
2-Butanone (MEK)	.34881	.33957	.48433	.50075	.53161	.956	.44097	20.407			(Conc=100.0,200.0,500.0,1
cis-1,2-Dichloroethene	.86430	.86517	1.27167	1.29764	1.33877	.974	1.17749	21.387			
Chloroform	1.75677	1.85803	2.77889	2.79103	2.81571	1.010	2.42998	19.737	*		
1,1,1-Trichloroethane	1.40456	1.37509	2.03735	2.12705	2.18130	1.177	1.87507	21.959			
Carbon tetrachloride	1.75735	1.74945	1.88002	1.96937	2.06377	1.171	1.68789	23.747			
1,2-Dichloroethane-d4	.43689	.40587	.39495	.40809	.39983	.905	.40913	3.998			
1,2-Dichloroethane	.44579	.43660	.41777	.41177	.40540	.915	.42735	4.193			
Benzene	1.03050	.98105	.94677	.90394	.90365	.971	.95307	5.670			
Trichloroethene	.44767	.39180	.36160	.34743	.37530	1.038	.37776	12.400			
1,2-Dichloropropane	.37559	.30857	.29178	.28470	.27684	1.034	.29779	6.630	*		
Bromodichloromethane	.57478	.56443	.55899	.55435	.53789	1.043	.55799	2.413			
Dibromomethane	.37065	.36054	.34547	.33847	.32857	1.029	.34873	4.850			
2-Chloroethyl vinyl ether	-	-	-	-	-	-	-	-			
4-Methyl-2-pentanone (MIBK)	.28177	.27967	.25498	.25550	.23971	1.119	.26717	6.858			(Conc=100.0,200.0,500.0,1

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
VOA Compounds

Case No: Instrument ID: GC/MS B

Contractor: PACE-Tampa,FL Calibration Date: 11/22/95

Contract No: 674/8240/8260

Minimum $\overline{RF}$ For SPCC is 0.3 Maximum % RSD For CCC is 30%

Laboratory ID: 5R5922 5R5926 5R5925 5R5924 5R5923

Compound	RF 10.0B	RF 20.0B	RF 50.0B	RF 100.0B	RF 150.0B	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
cis-1,3-Dichloropropene	.4[illegible]97	.4459[illegible]	.44752	.45352	.45756	1.1[illegible]6	.44786	1.51[illegible]		(Conc=10.0,20.0,50.0,100.
Toluene-d8	1.[illegible]0567	.94[illegible]46	.9[illegible]559	.97[illegible]3	.[illegible]5896	1.16[illegible]	.9777[illegible]	5.771		
Toluene	1.5967[illegible]	1.5[illegible]671	1.[illegible]0[illegible]5	1.[illegible]0[illegible]92	1.[illegible]8424	.915	1.[illegible]79[illegible]	6.[illegible]17	*	
trans-1,3-Dichloropropene	.47[illegible]9[illegible]	.4466[illegible]	.48[illegible]67	.48[illegible]83	.50[illegible]78	.895	.478[illegible]4	4.645		(Conc=9.40,18.8,47.0,94.0
1,1,2-Trichloroethane	.5[illegible]851	.5[illegible]165	.56[illegible]45	.55[illegible]95	.559[illegible]6	.9[illegible]5	.5[illegible]106	4.40[illegible]		
2-Hexanone	.24[illegible]15	.25[illegible]54	.2[illegible]59[illegible]	.2[illegible]642	.2[illegible]6[illegible]6	.952	.2[illegible]85[illegible]	4.555		(Conc=100.0,200.0,500.0,1
Tetrachloroethene	.5[illegible]974	.5[illegible]541	.56[illegible]1[illegible]	.55[illegible]88[illegible]	.54[illegible]41	.961	.564[illegible]1	5.46[illegible]		
Dibromochloromethane	.65[illegible]77	.654[illegible]6	.66419	.64[illegible]87	.65954	.935	.64[illegible]91	1.[illegible]87		
Chlorobenzene	1.[illegible]0[illegible]68	.96[illegible]84	.9[illegible]159	.88[illegible]963	.[illegible]5885	1.[illegible]0[illegible]2	.9[illegible]716	6.488	**	
Ethylbenzene	.47[illegible]5[illegible]	.46[illegible]19	.47961	.41966	.41549	1.[illegible]014	.44[illegible]69	6.415	*	
m&p-Xylene	.68[illegible]7[illegible]	.57[illegible]88[illegible]	.54[illegible]29	.5[illegible]6[illegible]4[illegible]	.49154	1.[illegible]025	.544[illegible]7	8.654		(Conc=20.0,40.0,100.0,200
o-Xylene	.5[illegible]441	.55[illegible]51[illegible]	.5[illegible]1517	.47[illegible]625	.45[illegible]847	1.[illegible]048	.5[illegible]1[illegible]86	9.[illegible]169		
Styrene	.9[illegible]9[illegible]5	.9[illegible]8[illegible]55	.[illegible]859[illegible]6	.[illegible]87[illegible]1[illegible]	.[illegible]8[illegible]545	1.[illegible]044	.[illegible]86[illegible]9	5.[illegible]816		
Bromoform	.45542	.46[illegible]89	.48[illegible]76	.49[illegible]8[illegible]	.5[illegible]1416	1.[illegible]051	.47[illegible]17	4.47[illegible]	**	
1,1,2,2-Tetrachloroethane	.[illegible]8[illegible]25	.68[illegible]8[illegible]	.64[illegible]86	.6[illegible][illegible]86	.5[illegible]56[illegible]	1.[illegible]048	.64[illegible]89	7.[illegible]45	**	
Bromofluorobenzene	.68456	.64[illegible]57	.65649	.61[illegible]98	.60[illegible]69	1.[illegible]0[illegible]	.65[illegible]98	4.[illegible]67		
1,3-Dichlorobenzene	.[illegible]8[illegible]5[illegible]	.[illegible]84[illegible]68	.[illegible]79195	.[illegible]7554	.[illegible]8[illegible]71	1.[illegible]159	.[illegible]8[illegible]15	4.[illegible]77		
1,4-Dichlorobenzene	.[illegible]8[illegible]25	.65[illegible]87	.64[illegible]8	.65179	.55[illegible]52	1.[illegible]145	.65[illegible]65	8.[illegible]55		
1,2-Dichlorobenzene	.[illegible]8[illegible]85	.[illegible]9[illegible]57	.[illegible]5[illegible]52	.[illegible]7755	.[illegible][illegible]565	1.[illegible]164	.[illegible]5[illegible]78	5.[illegible]2[illegible]		

$\overline{RF}$ - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

Operator ID: JIS Quant Rev: 7 Quant Time: 950727 18:05
Output File: ^B3923::D2 Injected at: 950727 12:32
Data File: >B3923::D1 Dilution Factor: 1.00000
Name: 150PPB AQ. Instrument ID: MS-B
Misc: 624/8240

ID File: IDVW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	17.44	49.0	50143	50.00	UG/L	95
2)	Dichlorodifluoromethane CFC-12	6.05	85.0	54072	197.48	UG/L	94
3)	Chloromethane	6.64	50.0	158134	220.45	UG/L	93
4)	Vinyl chloride	7.03	62.0	144268	213.35	UG/L	97
5)	Bromomethane	8.14	94.0	120939	182.54	UG/L	96
6)	Chloroethane	8.61	64.0	72610	109.27	UG/L	98
7)	Trichlorofluoromethane-FREON11	10.41	101.0	1134796	394.30	UG/L	96
9)	1,1-Dichloroethene	12.07	96.0	168987	190.49	UG/L	95
10)	Acetone	11.03	43.0	508966	1435.01	UG/L	83
11)	Methylene Chloride	12.60	84.0	203186	129.20	UG/L	98
12)	Acrylonitrile	12.48	53.0	494394	1531.81	UG/L	97
13)	Carbon Disulfide	13.05	76.0	552051	140.42	UG/L	99
14)	Methyl t-butyl ether	15.06	73.0	470656	141.55	UG/L	88
15)	trans-1,2-Dichloroethene	14.59	96.0	172537	144.78	UG/L	92
16)	Vinyl acetate	15.90	43.0	265845	155.64	UG/L	93
17)	1,1-Dichloroethane	15.31	63.0	325536	142.02	UG/L	97
18)	2-Butanone (MEK)	16.72	43.0	799702	1475.71	UG/L	87
19)	cis-1,2-Dichloroethene	16.99	96.0	201383	153.85	UG/L	97
20)	Chloroform	17.62	83.0	423565	151.12	UG/L	97
21)	1,1,1-Trichloroethane	19.54	97.0	328131	151.40	UG/L	92
22)	Carbon tetrachloride	20.38	117.0	310376	155.67	UG/L	95
23)	*1,4-Difluorobenzene	21.10	114.0	210963	50.00	UG/L	99
24)	1,2-Dichloroethane-d4	19.12	65.0	253049	138.59	UG/L	88
25)	1,2-Dichloroethane	19.32	62.0	256573	128.24	UG/L	94
26)	Benzene	20.51	78.0	571907	127.43	UG/L	96
27)	Trichloroethene	21.92	95.0	205878	115.04	UG/L	88
28)	1,2-Dichloropropane	21.82	63.0	175206	118.83	UG/L	99
29)	Bromodichloromethane	22.02	83.0	340423	133.60	UG/L	94
30)	Dibromomethane	21.72	93.0	202916	131.64	UG/L	90
32)	4-Methyl-2-pentanone (MIBK)	23.64	43.0	1513913	1120.09	UG/L	95
33)	cis-1,3-Dichloropropene	23.35	75.0	293541	135.52	UG/L	97
34)	Toluene-d8	24.64	98.0	543625	131.98	UG/L	84
35)	*Chlorobenzene-d5	27.06	117.0	157742	50.00	UG/L	94
36)	Toluene	24.77	91.0	560415	123.17	UG/L	99
37)	trans-1,3-Dichloropropene	24.17	75.0	225655	123.85	UG/L	90
38)	1,1,2-Trichloroethane	24.44	97.0	170249	130.64	UG/L	97
39)	2-Hexanone	25.28	43.0	1022449	1123.98	UG/L	96
40)	Tetrachloroethene	26.00	164.0	162037	126.75	UG/L	86
41)	Dibromochloromethane	25.30	129.0	302645	132.64	UG/L	91
42)	Chlorobenzene	27.10	112.0	406430	125.05	UG/L	85
43)	Ethylbenzene	27.43	106.0	195676	126.88	UG/L	95
44)	m&p-Xylene	27.74	106.0	465027	243.18	UG/L	95
45)	o-Xylene	28.35	106.0	216937	121.19	UG/L	97

QUANT REPORT

erator ID: JTS
utput File: ^B3923::D2
ata File: >B3923::D1
me: 150PPB AQ.
sc: 624/8240

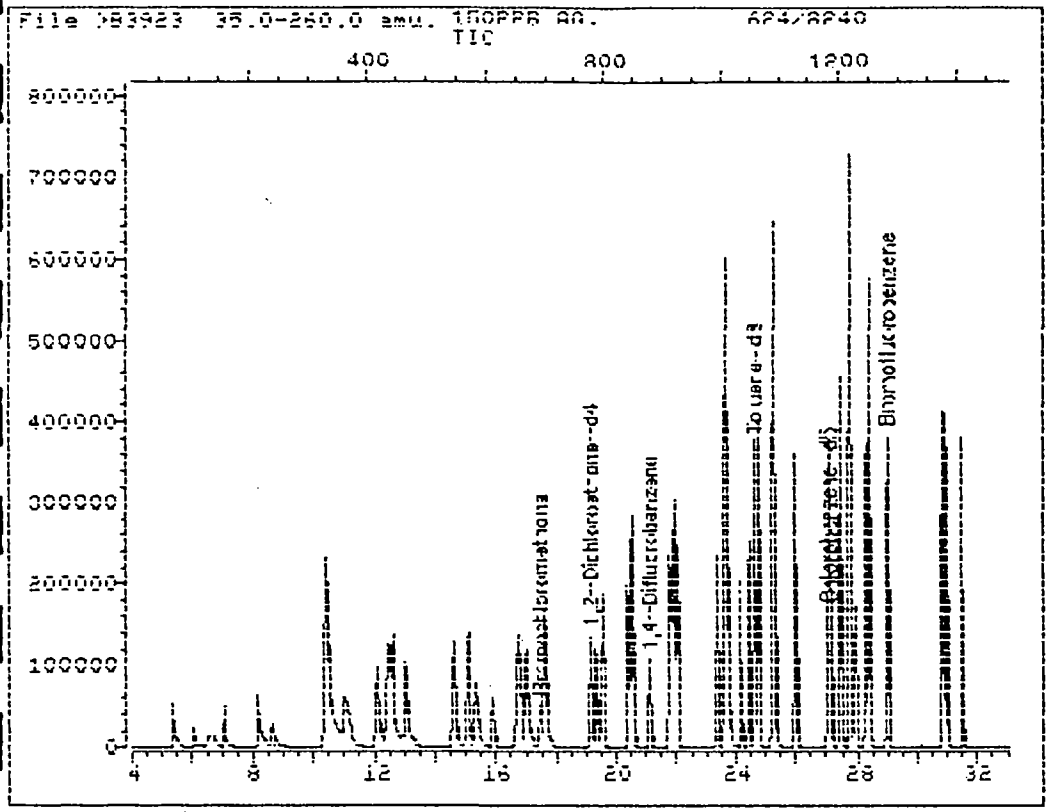
Quant Rev: 2
Quant Time: 950727 18:05
Injected at: 950727 17:32
Dilution Factor: 1.00000
Instrument ID: MS-B

File: IDVW3::SC
tle: 624/8240 Volatiles by MS
ast Calibration: 950706 13:41
Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	Styrene	28.23	104.0	381151	125.52	UG/L	92
47)	Bromoform	27.92	173.0	238582	145.50	UG/L	98
48)	1,1,2,2-Tetrachloroethane	28.37	83.0	277123	123.03	UG/L	96
49)	Bromofluorobenzene	28.96	95.0	285208	135.63	UG/L	93
50)	1,3-Dichlorobenzene	30.83	146.0	370870	134.08	UG/L	95
51)	1,4-Dichlorobenzene	30.93	146.0	260899	118.10	UG/L	94
52)	1,2-Dichlorobenzene	31.50	146.0	332978	125.52	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3923::D1 Quant Output File: ^B3923::D2
Name: 150PPB AQ. Instrument ID: MS-B
Misc: 624/8240

Id File: IDVW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

Operator ID: JIS
Quant Time : 950727 18:05
Injected at: 950727 17:32

QUANT REPORT

erator ID: JIS Quant Rev: 2 Quant Time: 950722 18:50
tput File: ^B3924::D2 Injected at: 950722 18:16
ata File: >B3924::D1 Dilution Factor: 1.00000
ame: 100PPB AQ. Instrument ID: MS-B
sc: 624/8240

D File: IDVW3::SC
tle: 624/8240 Volatiles by MS
ast Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	12.39	49.0	50816	50.00	UG/L	98
2)	Dichlorodifluoromethane CFC-12	6.00	85.0	38893	140.16	UG/L	94
3)	Chloromethane	6.49	50.0	111869	153.89	UG/L	92
4)	Vinyl chloride	6.97	62.0	97335	142.04	UG/L	99
5)	Bromomethane	8.09	94.0	145896	153.73	UG/L	99
6)	Chloroethane	8.56	64.0	133750	198.61	UG/L	98
7)	Trichlorofluoromethane-FREON11	10.33	101.0	223324	265.14	UG/L	96
9)	1,1-Dichloroethene	12.01	96.0	116756	129.87	UG/L	93
10)	Acetone	10.92	43.0	331822	923.32	UG/L	84
11)	Methylene Chloride	12.52	84.0	139139	87.30	UG/L	99
12)	Acrylonitrile	12.37	53.0	325964	996.58	UG/L	96
13)	Carbon Disulfide	12.99	76.0	362731	92.30	UG/L	99
14)	Methyl t-butyl ether	14.98	73.0	320402	95.09	UG/L	88
15)	trans-1,2-Dichloroethene	14.54	96.0	114918	95.15	UG/L	90
16)	Vinyl acetate	15.84	43.0	174961	101.02	UG/L	95
17)	1,1-Dichloroethane	15.28	63.0	218235	93.95	UG/L	96
18)	2-Butanone (MEK)	16.65	43.0	508413	925.76	UG/L	87
19)	cis-1,2-Dichloroethene	16.94	96.0	131882	99.42	UG/L	98
20)	Chloroform	17.56	83.0	283658	99.87	UG/L	96
21)	1,1,1-Trichloroethane	19.52	97.0	216176	98.42	UG/L	91
22)	Carbon tetrachloride	20.36	117.0	200151	99.06	UG/L	93
23)	*1,4-Difluorobenzene	21.08	114.0	207500	50.00	UG/L	99
24)	1,2-Dichloroethane-d4	19.09	65.0	169359	94.30	UG/L	90
25)	1,2-Dichloroethane	19.30	62.0	170864	86.83	UG/L	94
26)	Benzene	20.47	78.0	375137	84.98	UG/L	95
27)	Trichloroethene	21.90	95.0	142108	80.73	UG/L	87
28)	1,2-Dichloropropane	21.80	63.0	117941	81.33	UG/L	96
29)	Bromodichloromethane	22.00	83.0	230056	91.79	UG/L	94
30)	Dibromomethane	21.71	93.0	140463	90.42	UG/L	87
32)	4-Methyl-2-pentanone (MIBK)	23.62	43.0	1060317	833.19	UG/L	99
33)	cis-1,3-Dichloropropene	23.33	75.0	199525	93.66	UG/L	94
34)	Toluene-d8	24.64	98.0	385132	95.06	UG/L	87
35)	*Chlorobenzene-d5	27.04	117.0	163272	50.00	UG/L	93
36)	Toluene	24.75	91.0	392152	83.27	UG/L	99
37)	trans-1,3-Dichloropropene	24.15	75.0	149125	79.08	UG/L	88
38)	1,1,2-Trichloroethane	24.42	97.0	116887	86.66	UG/L	98
39)	2-Hexanone	25.22	43.0	239369	820.19	UG/L	95
40)	Tetrachloroethene	25.99	164.0	115230	87.08	UG/L	90
41)	Dibromochloromethane	25.28	129.0	211557	89.58	UG/L	90
42)	Chlorobenzene	27.10	112.0	290503	86.36	UG/L	86
43)	Ethylbenzene	27.43	106.0	137037	85.85	UG/L	97
44)	m&p-Xylene	27.74	106.0	330726	167.09	UG/L	99
45)	o-Xylene	28.35	106.0	155509	83.93	UG/L	97

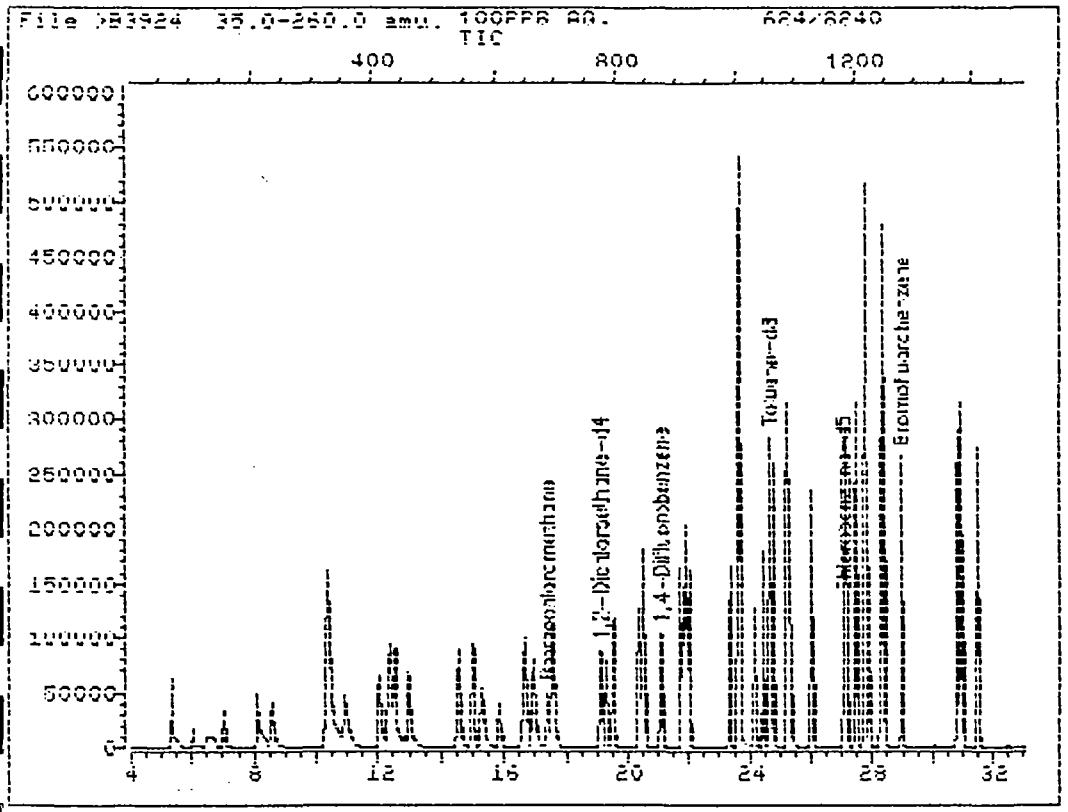
[redacted]acator ID: JIS Quant Rev: 7 Quant Time: 950722 18:58
[redacted]tput File: ^R5924::D2 Injected at: 950722 18:16
Data File: >R5924::D1 Dilution Factor: 1.000000
[redacted]ame: 100PPB AQ. Instrument ID: MS-8
[redacted]sc: 624/8240

ID File: IDQW5::SC
[redacted]tle: 624/8240 Volatiles by MS
[redacted]ast Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	M ion	Area	Conc	Units	q
[redacted]46)	Styrene	28.25	104.0	270084	85.95	UG/L	9[redacted]
47)	Bromoform	27.88	173.0	161601	95.21	UG/L	98
48)	1,1,2,2-Tetrachloroethane	28.35	83.0	199146	85.42	UG/L	96
[redacted]49)	Bromofluorobenzene	28.96	95.0	202125	92.86	UG/L	87
[redacted]50)	1,3-Dichlorobenzene	30.81	146.0	255783	88.43	UG/L	9[redacted]
51)	1,4-Dichlorobenzene	30.93	146.0	206308	90.25	UG/L	97
[redacted]52)	1,2-Dichlorobenzene	31.48	146.0	255873	85.90	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3924::D1
Name: 100PPB AQ.
Misc: 624/8240

Quant Output File: ^B3924::D2
Instrument ID: MS-B

Id File: DOOW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 95/07/06 14:41

Last Qcal Time: 95/07/25 09:09

Operator ID: JTS
Quant Time : 95/07/27 18:58
Injected at: 95/07/27 18:16

QUANT REPORT

Operator ID: JTS Quant Rev: 7 Quant Time: 950722 19:35
Output File: ^B3925::D2 Injected at: 950722 19:01
Data File: >B3925::D1 Dilution Factor: 1.00000
Name: 50PPB AQ. Instrument ID: MS-B
Misc: 624/8240

ID File: IDVW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	12.38	49.0	55549	50.00	UG/L	93
2)	Dichlorodifluoromethane CFC-12	6.01	85.0	22823	75.24	UG/L	95
3)	Chloromethane	6.48	50.0	57009	71.74	UG/L	91
4)	Vinyl chloride	6.99	62.0	51787	69.13	UG/L	99
5)	Bromomethane	8.08	94.0	107150	103.28	UG/L	95
6)	Chloroethane	8.55	64.0	71099	96.58	UG/L	98
7)	Trichlorofluoromethane-FREON11	10.35	101.0	416757	130.71	UG/L	96
9)	1,1-Dichloroethene	12.01	96.0	52532	53.45	UG/L	91
10)	Acetone	10.86	43.0	180323	458.94	UG/L	87
11)	Methylene Chloride	12.52	84.0	75601	43.39	UG/L	94
12)	Acrylonitrile	12.34	53.0	165598	463.15	UG/L	99
13)	Carbon Disulfide	13.01	76.0	195139	44.80	UG/L	98
14)	Methyl t-butyl ether	14.96	73.0	171176	46.47	UG/L	87
15)	trans-1,2-Dichloroethene	14.53	96.0	62276	47.17	UG/L	94
16)	Vinyl acetate	15.84	43.0	86964	45.96	UG/L	94
17)	1,1-Dichloroethane	15.27	63.0	117187	46.15	UG/L	99
18)	2-Butanone (MEK)	16.62	43.0	269043	448.15	UG/L	87
19)	cis-1,2-Dichloroethene	16.93	96.0	70640	48.71	UG/L	98
20)	Chloroform	17.56	83.0	151587	48.82	UG/L	94
21)	1,1,1-Trichloroethane	19.51	97.0	113173	47.14	UG/L	93
22)	Carbon tetrachloride	20.35	117.0	104433	47.28	UG/L	94
23)	*1,4-Difluorobenzene	21.09	114.0	215966	50.00	UG/L	98
24)	1,2-Dichloroethane-d4	19.08	65.0	85295	45.63	UG/L	84
25)	1,2-Dichloroethane	19.30	62.0	89036	43.47	UG/L	98
26)	Benzene	20.49	78.0	204351	44.48	UG/L	96
27)	Trichloroethene	21.89	95.0	78094	42.63	UG/L	84
28)	1,2-Dichloropropane	21.80	63.0	62906	41.68	UG/L	99
29)	Bromodichloromethane	21.99	83.0	120722	46.28	UG/L	94
30)	Dibromomethane	21.70	93.0	74610	46.14	UG/L	90
32)	4-Methyl-2-pentanone (MIBK)	23.59	43.0	550680	415.76	UG/L	97
33)	cis-1,3-Dichloropropene	23.32	75.0	101258	45.67	UG/L	94
34)	Toluene-d8	24.63	98.0	195534	46.37	UG/L	84
35)	*Chlorobenzene-d5	27.05	117.0	161899	50.00	UG/L	94
36)	Toluene	24.77	91.0	208988	44.75	UG/L	99
37)	trans-1,3-Dichloropropene	24.16	75.0	73296	39.20	UG/L	92
38)	1,1,2-Trichloroethane	24.42	97.0	59486	44.48	UG/L	94
39)	2-Hexanone	25.18	43.0	364881	408.20	UG/L	94
40)	Tetrachloroethene	26.00	164.0	58302	44.43	UG/L	86
41)	Dibromochloromethane	25.29	129.0	107531	45.92	UG/L	93
42)	Chlorobenzene	27.09	112.0	147585	44.24	UG/L	85
43)	Ethylbenzene	27.42	106.0	69554	43.94	UG/L	98
44)	m&p-Xylene	27.74	106.0	176889	90.13	UG/L	98
45)	o-Xylene	28.34	106.0	81462	44.34	UG/L	98

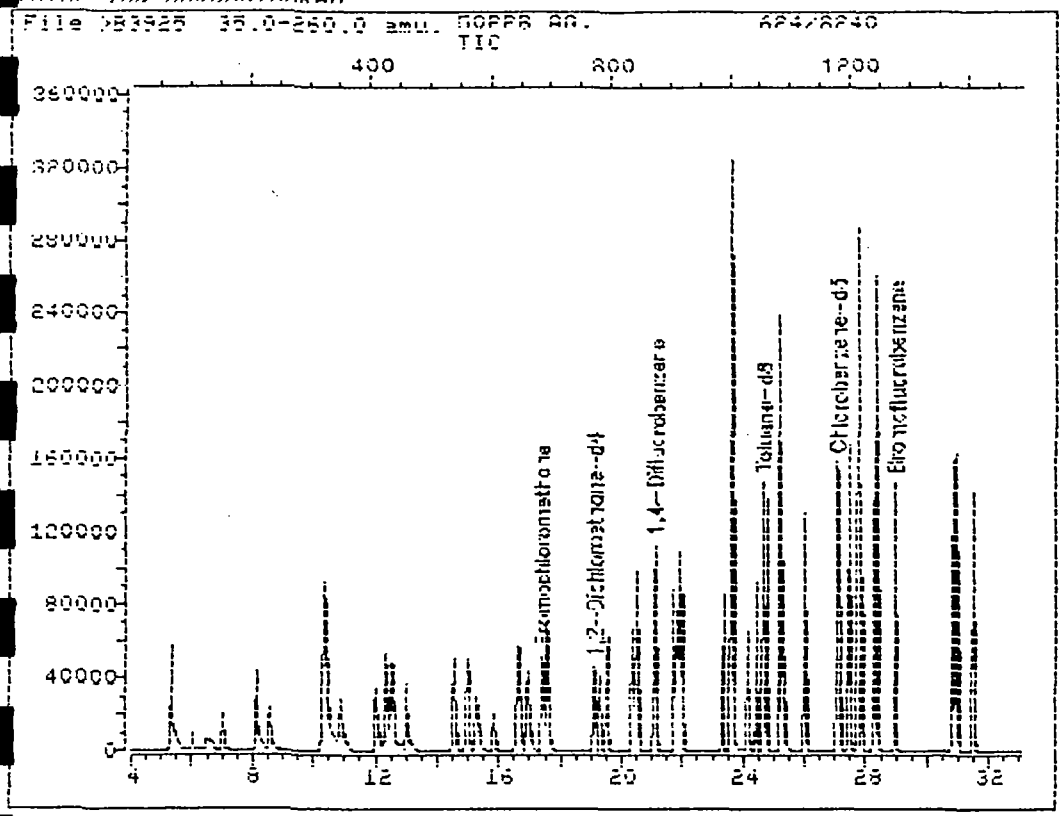
Operator ID: JJS Quant Rev: 2 Quant Time: 951122 19:55
Output File: ^R3925::D2 Injected at: 951122 19:01
Data File: >R3925::D1 Dilution Factor: 1.000000
Name: 50PPB AQ. Instrument ID: MS-R
Misc: 624/8240

CD File: DDUB3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 951116 13:41 Last Qcal Time: 951125 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	Q
46)	Styrene	28.23	104.0	159211	44.67	UG/L	92
47)	Bromoform	27.87	173.0	72753	46.20	UG/L	96
48)	1,1,2,2-Tetrachloroethane	28.54	83.0	105212	45.51	UG/L	95
49)	Bromofluorobenzene	28.95	95.0	103047	47.74	UG/L	98
50)	1,3-Dichlorobenzene	30.82	146.0	128212	45.16	UG/L	98
51)	1,4-Dichlorobenzene	30.92	146.0	104066	45.90	UG/L	98
52)	1,2-Dichlorobenzene	31.47	146.0	122814	45.10	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3925::D1
Name: >50PPB AQ.
Misc: 624/8240

Quant Output File: ^B3925::D2
Instrument ID: MS-B

Id File: DOQM$::SI
Title: 624/8240 Volatiles by MS
Last Calibration: 95/07/06 15:43
Last Qcal Time: 95/07/25 09:05

Operator ID: JTS
Quant Time : 95/07/27 19:35
Injected at: 95/07/27 19:01

QUANT REPORT

erator ID: JIS Quant Rev: 7 Quant Time: 950727 20:17
tput File: ^B3926::D2 Injected at: 950727 19:43
ata File: >B3926::D1 Dilution Factor: 1.00000
me: 20PPB AQ. Instrument ID: MS-B
sc: 624/8240

D File: IDVW3::SC
tle: 624/8240 Volatiles by MS
st Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	17.38	49.0	83587	50.00	UG/L	93
2)	Dichlorodifluoromethane CFC-12	5.99	85.0	10044	22.01	UG/L	92
3)	Chloromethane	6.48	50.0	22405	18.74	UG/L	94
4)	Vinyl chloride	6.97	62.0	21665	19.22	UG/L	97
5)	Bromomethane	8.08	94.0	44585	28.56	UG/L	96
6)	Chloroethane	8.55	64.0	28628	25.84	UG/L	93
7)	Trichlorofluoromethane-FREON11	10.33	101.0	165008	34.39	UG/L	94
9)	1,1-Dichloroethene	12.01	96.0	24485	16.56	UG/L	93
10)	Acetone	10.85	43.0	3439668	5817.74	UG/L	90
11)	Methylene Chloride	12.52	84.0	32462	12.38	UG/L	97
12)	Acrylonitrile	12.30	53.0	65595	121.92	UG/L	97
13)	Carbon Disulfide	12.98	76.0	73495	11.21	UG/L	99
14)	Methyl t-butyl ether	14.96	73.0	67652	12.21	UG/L	90
15)	trans-1,2-Dichloroethene	14.53	96.0	25083	12.63	UG/L	90
16)	Vinyl acetate	15.82	43.0	34739	12.20	UG/L	94
17)	1,1-Dichloroethane	15.25	63.0	47351	12.39	UG/L	99
18)	2-Butanone (MEK)	16.60	43.0	113536	125.68	UG/L	85
19)	cis-1,2-Dichloroethene	16.93	96.0	28925	13.26	UG/L	97
20)	Chloroform	17.56	83.0	62123	13.30	UG/L	96
21)	1,1,1-Trichloroethane	19.51	97.0	45976	12.73	UG/L	96
22)	Carbon tetrachloride	20.35	117.0	41775	12.57	UG/L	94
23)	*1,4-Difluorobenzene	21.09	114.0	212329	50.00	UG/L	98
24)	1,2-Dichloroethane-d4	19.08	65.0	34471	18.76	UG/L	87
25)	1,2-Dichloroethane	19.27	62.0	37081	18.42	UG/L	97
26)	Benzene	20.49	78.0	83322	18.45	UG/L	98
27)	Trichloroethene	21.89	95.0	33276	18.47	UG/L	86
28)	1,2-Dichloropropane	21.79	63.0	26207	17.66	UG/L	99
29)	Bromodichloromethane	21.99	83.0	47938	18.69	UG/L	95
30)	Dibromomethane	21.70	93.0	30621	19.26	UG/L	84
32)	4-Methyl-2-pentanone (MIBK)	23.59	43.0	237487	182.37	UG/L	98
33)	cis-1,3-Dichloropropene	23.32	75.0	39963	18.33	UG/L	97
34)	Toluene-d8	24.63	98.0	79875	19.27	UG/L	85
35)	*Chlorobenzene-d5	27.05	117.0	166145	50.00	UG/L	95
36)	Toluene	24.76	91.0	88137	18.39	UG/L	97
37)	trans-1,3-Dichloropropene	24.16	75.0	27865	14.52	UG/L	94
38)	1,1,2-Trichloroethane	24.41	97.0	24698	17.99	UG/L	96
39)	2-Hexanone	25.17	43.0	153877	167.75	UG/L	95
40)	Tetrachloroethene	26.00	164.0	24949	18.53	UG/L	86
41)	Dibromochloromethane	25.29	129.0	42185	17.55	UG/L	89
42)	Chlorobenzene	27.11	112.0	64334	18.79	UG/L	91
43)	Ethylbenzene	27.42	106.0	30716	18.91	UG/L	95
44)	m&p-Xylene	27.73	106.0	76278	37.87	UG/L	99
45)	o-Xylene	28.34	106.0	35429	18.79	UG/L	96

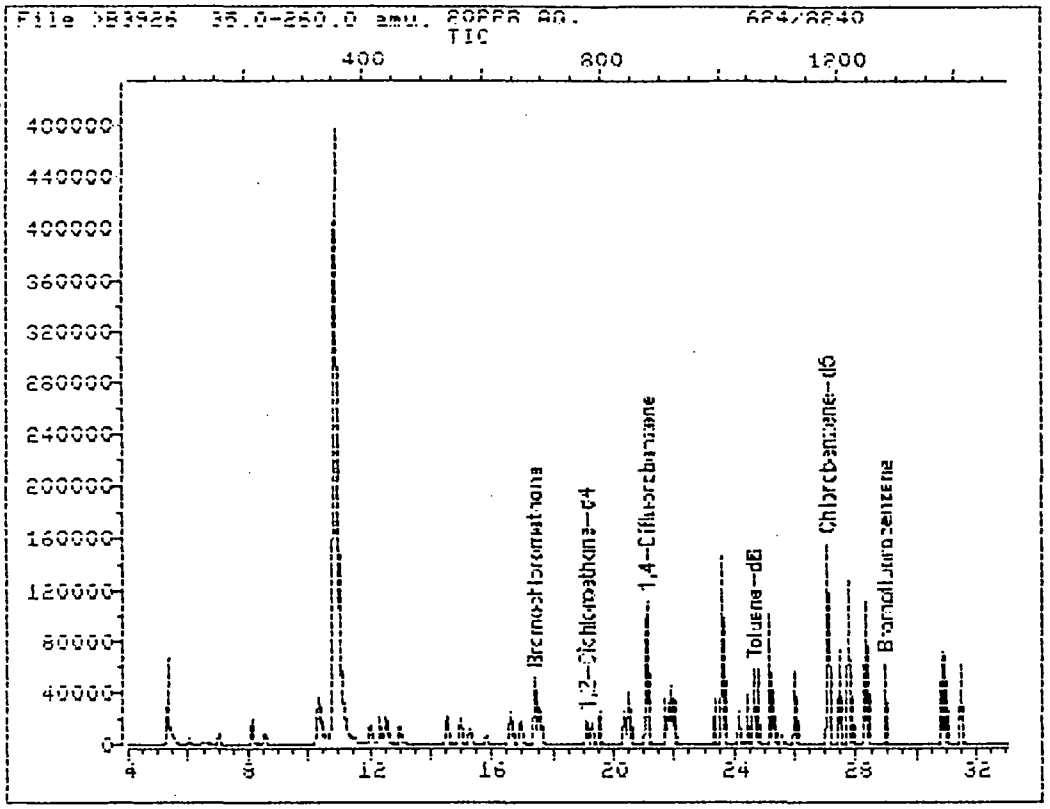
Operator ID: JIS Quant Rev: 2 Quant Time: 950727 20:17
Output File: ^B5926::D2 Injected at: 950727 19:45
Data File: ^B5926::D1 Dilution Factor: 1.000000
Name: 20PPB AQ.
Misc: 624/8240

LID File: LDUM3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	Q
46)	Styrene	28.24	104.0	60255	18.83	UG/L	94
47)	Bromoform	27.87	173.0	30763	17.81	UG/L	99
48)	1,1,2,2-Tetrachloroethane	28.54	83.0	45215	19.27	UG/L	97
49)	Bromofluorobenzene	28.95	95.0	43023	19.42	UG/L	93
50)	1,3-Dichlorobenzene	30.82	146.0	56355	19.34	UG/L	95
51)	1,4-Dichlorobenzene	30.92	146.0	43664	18.77	UG/L	98
52)	1,2-Dichlorobenzene	31.47	146.0	52686	18.83	UG/L	97

* Compound is (STD)

TOTAL ION CHROMATOGRAM



Data File: >B3926::D1
Name: 80PPB AQ.
Misc: 624/8240

Quant Output File: ^B3926::D2
Instrument ID: MS-B

Id File: DOW2::S1
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 14:41

Last Qual Time: 950725 09:05

Operator ID: JIS
Quant Time : 950727 08:17
Injected at: 950727 19:43

erator ID: JJS Quant Rev: / Quant Time: 951122 21:02
tput File: ^R5922::02 Injected at: 951122 20:28
ata File: ^R5922::01 Dilution Factor: 1.000000
me: 10PPB AQ. Instrument ID: MS-R
sc: 624/8240

ID File: DDW5::SC
tle: 624/8240 Volatiles by MS
ast Calibration: 951206 13:41 Last Qcal Time: 960225 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	Q
1)	*Bromochloromethane	17.58	49.0	84589	50.00	UG/L	97
2)	Dichlorodifluoromethane CFC-12	6.01	85.0	4678	10.13	UG/L	93
3)	Chloromethane	6.48	50.0	10564	8.23	UG/L	97
4)	Vinyl chloride	6.99	62.0	9745	8.54	UG/L	97
5)	Bromomethane	8.30	94.0	21522	13.62	UG/L	99
6)	Chloroethane	8.55	64.0	12948	11.55	UG/L	92
7)	Trichlorofluoromethane-FREON11	10.35	101.0	85193	17.14	UG/L	99
8)	1,1-Dichloroethene	12.01	96.0	11183	2.47	UG/L	92
10)	Acetone	10.83	43.0	92897	155.26	UG/L	85
11)	Methylene Chloride	12.51	84.0	17207	6.67	UG/L	98
12)	Acrylonitrile	12.30	53.0	329000	600.43	UG/L	98
13)	Carbon Disulfide	13.00	76.0	37984	5.23	UG/L	99
14)	Methyl t-butyl ether	14.96	73.0	68055	6.43	UG/L	93
15)	trans-1,2-Dichloroethene	14.53	96.0	13033	6.48	UG/L	88
16)	Vinyl acetate	15.84	43.0	17087	5.93	UG/L	97
17)	1,1-Dichloroethane	15.25	63.0	22459	5.81	UG/L	98
18)	2-Butanone (MEK)	16.60	43.0	59077	64.55	UG/L	84
19)	cis-1,2-Dichloroethene	16.93	96.0	14622	6.62	UG/L	99
20)	Chloroform	17.55	83.0	53095	7.00	UG/L	96
21)	1,1,1-Trichloroethane	19.51	97.0	23762	6.50	UG/L	94
22)	Carbon tetrachloride	20.37	117.0	21182	6.30	UG/L	94
23)	*1,4-Difluorobenzene	21.09	114.0	218064	50.00	UG/L	98
24)	1,2-Dichloroethane-d4	19.08	65.0	19054	10.10	UG/L	97
25)	1,2-Dichloroethane	19.27	62.0	19442	9.40	UG/L	95
26)	Benzene	20.48	78.0	44943	9.69	UG/L	95
27)	Trichloroethene	21.89	95.0	19506	10.44	UG/L	84
28)	1,2-Dichloropropane	21.79	63.0	14700	9.32	UG/L	95
29)	Bromodichloromethane	21.99	83.0	25046	9.51	UG/L	95
30)	Dibromomethane	21.72	93.0	16165M	9.90	UG/L	
32)	4-Methyl-2-pentanone (MIBK)	23.59	43.0	122668	91.72	UG/L	98
33)	cis-1,3-Dichloropropene	23.32	75.0	20700	9.02	UG/L	96
34)	Toluene-d8	24.63	98.0	43860	10.30	UG/L	84
35)	*Chlorobenzene-d5	22.05	117.0	165841	50.00	UG/L	92
36)	Toluene	24.26	91.0	46322	9.68	UG/L	99
37)	trans-1,3-Dichloropropene	24.16	75.0	14744	7.70	UG/L	93
38)	1,1,2-Trichloroethane	24.41	97.0	13218	9.65	UG/L	95
39)	2-Hexanone	25.17	43.0	80642	88.08	UG/L	97
40)	Tetrachloroethene	25.99	164.0	15045	9.78	UG/L	88
41)	Dibromochloromethane	25.29	129.0	21666	9.05	UG/L	89
42)	Chlorobenzene	27.11	112.0	53423	9.78	UG/L	95
43)	Ethylbenzene	27.42	106.0	15871	9.29	UG/L	94
44)	m&p-Xylene	27.73	106.0	40180	19.99	UG/L	99
45)	o-Xylene	28.34	106.0	19052	10.12	UG/L	98

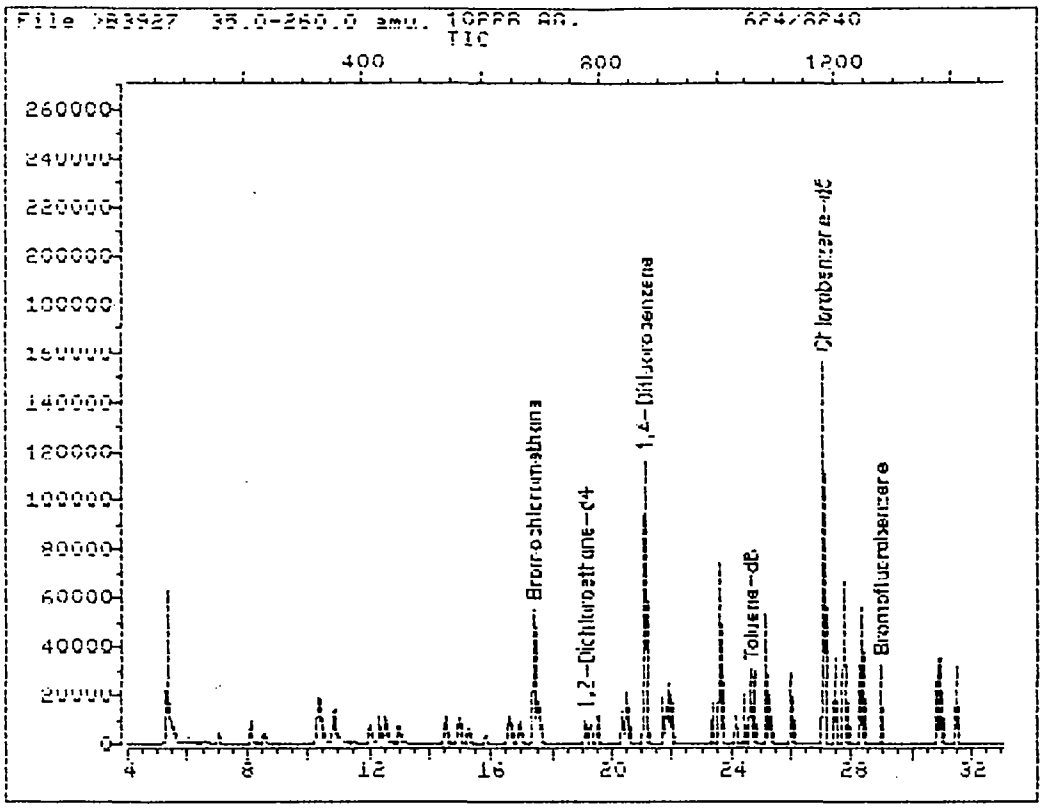
Operator ID: JJS Quant Rev: 7 Quant Time: 950722 21:02
Output File: ^B3922::02 Injected at: 950722 20:28
Data File: >B3922::01 Dilution Factor: 1.000000
Name: 10PPB AN. Instrument ID: MS-B
Misc: 624/8240

ID File: IDOW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	Styrene	28.24	104.0	31622	9.59	UG/L	93
47)	Bromoform	27.87	173.0	15039	8.72	UG/L	98
48)	1,1,2,2-Tetrachloroethane	28.14	83.0	23425	9.89	UG/L	95
49)	Bromofluorobenzene	28.94	95.0	22699	10.27	UG/L	96
50)	1,3-Dichlorobenzene	30.82	146.0	28575	9.83	UG/L	97
51)	1,4-Dichlorobenzene	30.92	146.0	23392	10.07	UG/L	97
52)	1,2-Dichlorobenzene	31.46	146.0	26164	9.98	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3927::D1 Quant Output File: ^B3927::D2
Name: 10PPB AQ. Instrument ID: MS-B
Misc: 624/8240

Id File: 10VW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950706 13:41 Last Qcal Time: 950725 09:05

Operator ID: JTS
Quant Time : 950727 21:02
Injected at: 950727 20:28

Continuing Calibration Check
BSL Compounds

Case No: | Calibration Date: 08/01/95

Contractor: PACE-Tampa,FL | Time: 10:01

Contract No: 674/8240/8260 | Laboratory ID: >B3966

Instrument ID: GC/MS B | Initial Calibration Date: 07/28/95

Minimum $\overline{RF}$ for SPEC is 0.3 | Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPEC	
Dichlorodifluoromethane CFC-12	.17799	.17928	3.63			(Conc=100.00)
Chloromethane	.44728	.46417	3.77		**	(Conc=100.00)
Vinyl chloride	.40730	.44125	8.33	*		(Conc=100.00)
Bromomethane	.71064	.83933	18.11			(Conc=100.00)
Chloroethane	.47002	.56295	19.77			(Conc=100.00)
Trichlorofluoromethane-FREON11	2.42084	2.12591	12.18			(Conc=150.00)
Acrolein	-	-	-			(Conc=500.00)
1,1-Dichloroethene	.92224	.92421	.21	*		
Acetone	.38465	.29561	23.15			(Conc=500.00)
Methylene Chloride	1.21966	1.12066	8.12			
Acrylonitrile	.26763	.25210	5.80			(Conc=500.00)
Carbon Disulfide	3.04888	2.94940	3.26			
Methyl t-butyl ether	2.70349	2.56529	5.11			
trans-1,2-Dichloroethene	.98387	.95267	3.17			
Vinyl acetate	1.42066	1.33623	5.94			
1,1-Dichloroethane	1.83295	1.77230	3.31		**	
2-Butanone (MEK)	.44092	.41808	5.18			(Conc=500.00)
cis-1,2-Dichloroethene	1.12749	1.10044	2.40			
Chloroform	2.42998	2.33406	3.95	*		
1,1,1-Trichloroethane	1.82507	1.79246	1.79			
Carbon tetrachloride	1.68289	1.71550	1.94			
1,2-Dichloroethane-d4	.40913	.40399	1.26			
1,2-Dichloroethane	.42235	.40574	3.93			
Benzene	.95307	.93560	1.83			
Trichloroethene	.37276	.33111	11.17			
1,2-Dichloropropane	.29729	.28506	4.12	*		
Bromodichloromethane	.55799	.56044	.44			
Dibromomethane	.34873	.34339	1.53			
2-Chloroethyl vinyl ether	-	-	-			
4-Methyl-2-pentanone (MIBK)	.26212	.25373	3.39			(Conc=500.00)
cis-1,3-Dichloropropene	.44286	.46280	4.50			
Toluene-d8	.92770	.94911	2.31			

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPEC - System Performance Check Compounds (**)

Continuing Calibration Check
8260 Compounds

[illegible] No: Calibration Date: 08/01/95

Contractor: PACE-Tampa,FL Time: 10:01

Contract No: 624/8240/8260 Laboratory ID: 283966

Instrument ID: GC/MS H Initial Calibration Date: 07/28/95

Minimum $\overline{RF}$ for SPCC is 0.3 Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
[illegible]ene	1.2799	1.2488	2.41	*	
trans-1,3-Dichloropropene	.4878	.4657	5.14		
1,1,2-Trichloroethane	.3711	.3667	1.29		
2-Hexanone	.2285	.2289	.19		(Conc=5000.000)
Tetrachloroethene	.3648	.3527	2.17		
Dibromochloromethane	.6491	.6666	2.68		
Chlorobenzene	.9276	.9056	2.36	**	
Ethylbenzene	.4486	.4291	4.41	*	
m&p-Xylene	.5447	.5333	2.09		(Conc=1000.000)
o-Xylene	.5099	.4966	2.46		
Styrene	.8643	.8487	1.81		
Bromoform	.4791	.5056	5.55	**	
1,1,2,2-Tetrachloroethane	.6489	.6514	.54	**	
Bromofluorobenzene	.6579	.6655	1.16		
1,3-Dichlorobenzene	.8129	.7799	4.07		
1,4-Dichlorobenzene	.6576	.6557	.29		
1,2-Dichlorobenzene	.7579	.7548	.41		

- Response Factor from daily standard file at 50.000 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

erator ID: JTS Quant Rev: 2 Quant Time: 950801 10:35
tput File: ^H3966::D1 Injected at: 950801 10:01
Data File: >H3966::D1 Dilution Factor: 1.00000
me: 50PPB CCVS Instrument ID: MS-H
sc: 624/8240/8260

ID File: IDVW3::SC
tle: 624/8240 Volatiles by MS
st Calibration: 950728 08:30 Last Qcal Time: 950728 09:21

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	12.41	49.0	61800	50.00	UG/L	93
2)	Dichlorodifluoromethane CFC-12	6.06	85.0	22159	103.63	UG/L	99
3)	Chloromethane	6.62	50.0	57365	103.22	UG/L	93
4)	Vinyl chloride	7.04	62.0	54538	108.33	UG/L	99
5)	Bromomethane	8.15	94.0	103741	118.11	UG/L	98
6)	Chloroethane	8.60	64.0	69581	119.77	UG/L	98
7)	Trichlorofluoromethane-FREON11	10.40	101.0	394143	131.73	UG/L	97
9)	1,1-Dichloroethene	12.06	96.0	57116	50.11	UG/L	91
10)	Acetone	10.89	43.0	182687	384.25	UG/L	84
11)	Methylene Chloride	12.57	84.0	69257	45.94	UG/L	97
12)	Acrylonitrile	12.37	53.0	155796	470.98	UG/L	95
13)	Carbon Disulfide	13.06	76.0	182273	48.37	UG/L	99
14)	Methyl t-butyl ether	14.99	73.0	158535	47.44	UG/L	88
15)	trans-1,2-Dichloroethene	14.58	96.0	58875	48.41	UG/L	94
16)	Vinyl acetate	15.87	43.0	82579	47.03	UG/L	95
17)	1,1-Dichloroethane	15.30	63.0	109528	48.35	UG/L	99
18)	2-Butanone (MEK)	16.65	43.0	258375	474.11	UG/L	87
19)	cis-1,2-Dichloroethene	16.96	96.0	68007	48.80	UG/L	94
20)	Chloroform	17.61	83.0	144245	48.03	UG/L	95
21)	1,1,1-Trichloroethane	19.52	97.0	110774	49.11	UG/L	91
22)	Carbon tetrachloride	20.38	117.0	106018	50.97	UG/L	96
23)	*1,4-Difluorobenzene	21.10	114.0	210188	50.00	UG/L	98
24)	1,2-Dichloroethane-d4	19.11	65.0	84914	49.37	UG/L	86
25)	1,2-Dichloroethane	19.31	62.0	85281	48.03	UG/L	95
26)	Benzene	20.50	78.0	196652	49.08	UG/L	96
27)	Trichloroethene	21.91	95.0	69596	44.41	UG/L	89
28)	1,2-Dichloropropane	21.81	63.0	59916	47.94	UG/L	97
29)	Bromodichloromethane	22.00	83.0	117798	50.22	UG/L	95
30)	Dibromomethane	21.71	93.0	72177	49.24	UG/L	88
32)	4-Methyl-2-pentanone (MIBK)	23.59	43.0	532252	483.04	UG/L	97
33)	cis-1,3-Dichloropropene	23.31	75.0	97275	52.25	UG/L	94
34)	Toluene-d8	24.62	98.0	199491	51.15	UG/L	86
35)	*Chlorobenzene-d5	27.03	117.0	159492	50.00	UG/L	94
36)	Toluene	24.74	91.0	199187	48.79	UG/L	97
37)	trans-1,3-Dichloropropene	24.13	75.0	73959	48.43	UG/L	88
38)	1,1,2-Trichloroethane	24.41	97.0	58419	49.36	UG/L	98
39)	2-Hexanone	25.15	43.0	365129	500.93	UG/L	94
40)	Tetrachloroethene	25.97	164.0	56950	48.94	UG/L	90
41)	Dibromochloromethane	25.27	129.0	106317	51.44	UG/L	93
42)	Chlorobenzene	27.08	112.0	144399	48.87	UG/L	91
43)	Ethylbenzene	27.40	106.0	67196	47.80	UG/L	97
44)	m&p-Xylene	27.71	106.0	170119	97.91	UG/L	97
45)	o-Xylene	28.32	106.0	79198	48.77	UG/L	97

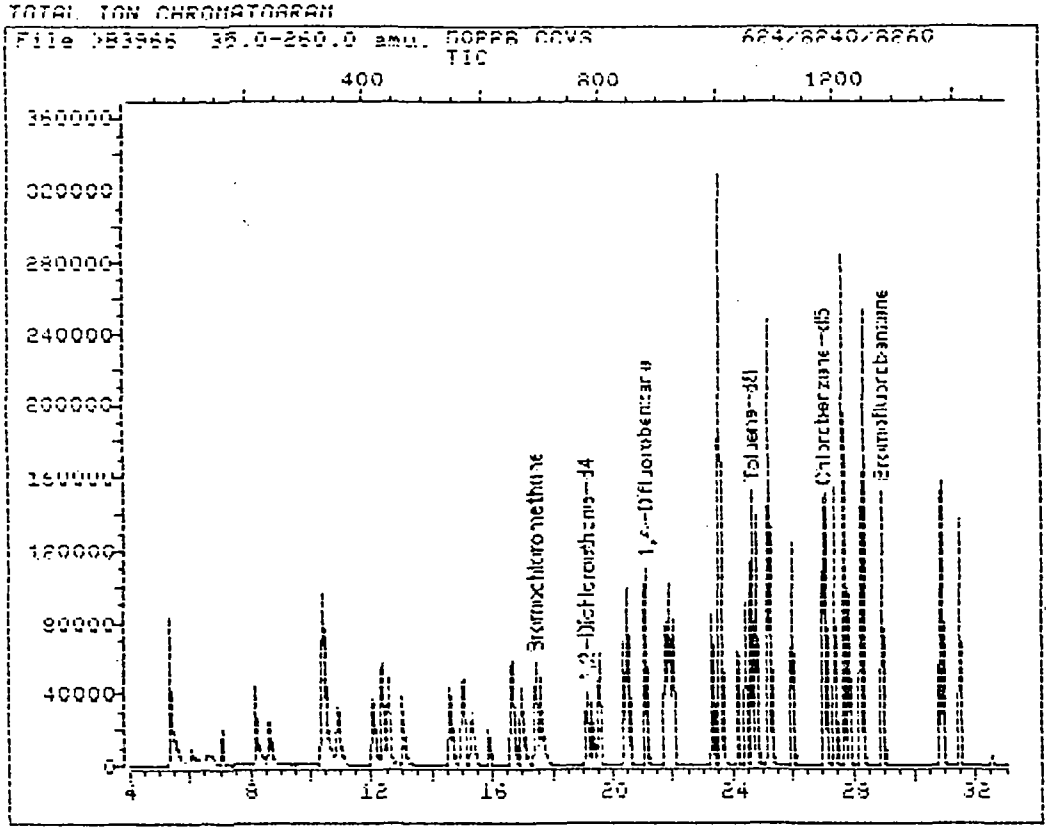
Operator ID: JJS Quant Rev: 7 Quant Time: 950811 10:35
Output File: ^B3966::D1 Injected at: 950811 10:01
Data File: >B3966::D1 Dilution Factor: 1.000000
Name: 5UPPR DCOS Instrument ID: MS-B
Mac: 624/8240/8260

ID File: DOW5::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950728 08:30 Last Qcal Time: 950728 09:21

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	Styrene	28.20	104.0	135282	49.02	UG/L	91
47)	Bromoform	27.85	173.0	81665	52.77	UG/L	94
48)	1,1,2,2-Tetrachloroethane	28.32	83.0	103894	50.22	UG/L	98
49)	Bromofluorobenzene	28.92	95.0	102933	50.58	UG/L	92
50)	1,3-Dichlorobenzene	30.80	146.0	124742	47.92	UG/L	97
51)	1,4-Dichlorobenzene	30.89	146.0	102598	50.44	UG/L	98
52)	1,2-Dichlorobenzene	31.44	146.0	119695	49.83	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3966::D1 Quant Output File: ^B3966::D1
Name: 50PPB CCVS Instrument ID: MS-B
Misc: 624/8240/8260

Id File: DOCW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 95NOV28 08:30 Last Qcal Time: 95NOV28 09:21

Operator ID: JTS
Quant Time : 95DEC01 10:39
Injected at: 95DEC01 10:01

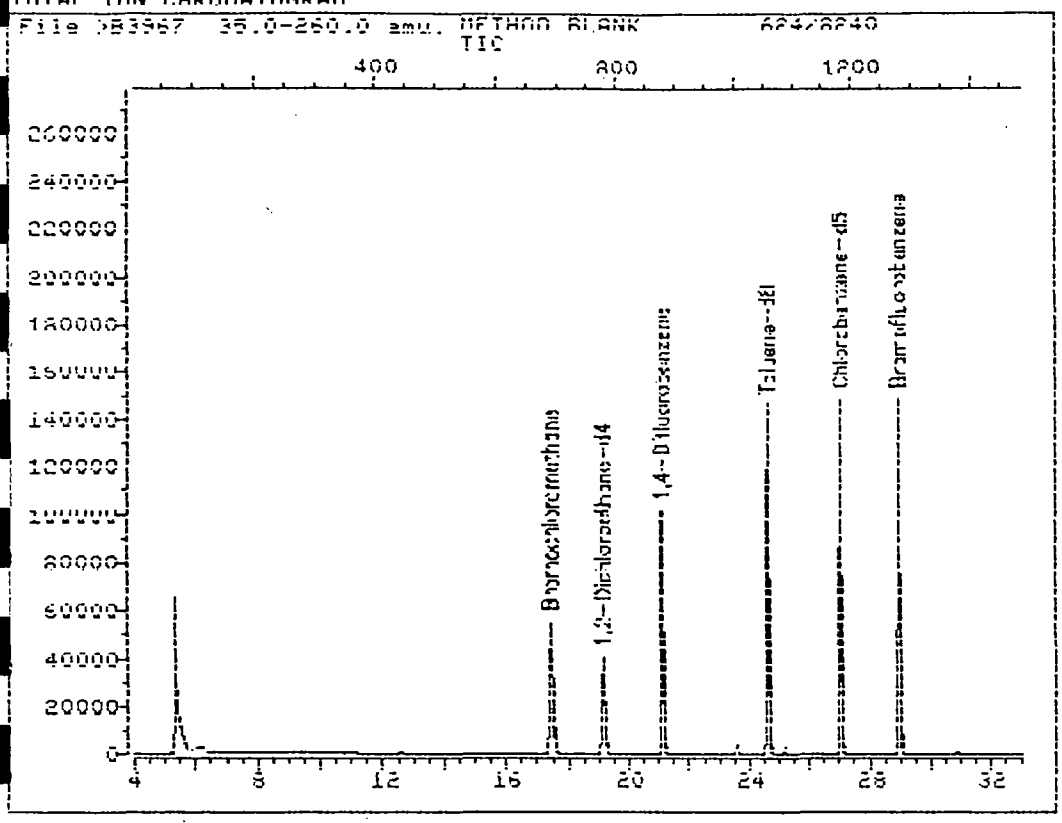
Operator ID: JIS Quant Rev: / Quant Time: 951101 13:29
Output File: ^B3967::D2 Injected at: 951101 11:55
Data File: >B3967::D1 Dilution Factor: 1.000000
Name: METHOD BLANK Instrument ID: MS-B
Misc: 624/8240

ID File: IDUM5::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950228 08:30 Last Qcal Time: 951101 11:01

	Compound		R.T.	Mion	Area	Conc	Units	q
8)	*Bromochloromethane		12.41	49.0	24495	50.000	UG/L	97
11)	Methylene Chloride		12.57	84.0	2136	1.19	UG/L	97
25)	*1,4-Difluorobenzene		21.08	114.0	208041	50.000	UG/L	99
4)	1,2-Dichloroethane-d4		19.11	65.0	86017	49.97	UG/L 100	82
22)	4-Methyl-2-pentanone	(MIBK)	23.58	43.0	6728	5.85	UG/L	97
34)	Toluene-d8		24.62	98.0	196124	52.06	UG/L 104	86
45)	*Chlorobenzene-d5		27.02	117.0	159161	50.000	UG/L	94
49)	Bromofluorobenzene		28.92	95.0	102972	50.71	UG/L 101	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3967::D1
Name: METHOD BLANK
Misc: 624/8240

Quant Output File: ^B3967::D2
Instrument ID: MS-B

Id File: IDVW>::SL
Title: 624/8240 Volatiles by MS
Last Calibration: 950728 08:30
Last Qcal Time: 950801 10:01

Operator ID: JTS
Quant Time : 950801 11:27
Injected at: 950801 10:55

Operator ID: JJS Quant Rev: / Quant Time: 9/10/01 7:54
Output File: C:\HP59772\10\ Injected at: 9/10/01 15:21
Data File: D:\HP59772\10\ Dilution Factor: 1.000000
Name: JJS Instrument ID: MS-H
Acq: HP5971-1

ID File: DOUW5::5D:
File: 624/HP5971 Volatiles by MS
Last Calibration: 9/11/98 08:58 Last Qual Time: 9/10/01 10:01

	Compound	R.T.	M ion	Area	Conc	Units	q
1)	*Bromochloromethane	12.52	49.0	52765	50.000	UG/L	92
2)	Dichlorodifluoromethane (CFC-12	6.000	85.0	18521	92.65	UG/L	99
3)	Chloromethane	6.68	50.0	55883	102.72	UG/L	92
4)	Vinyl chloride	6.98	62.0	52525	112.15	UG/L	92
5)	Bromomethane	8.02	94.0	10008725	124.15	UG/L	92
6)	Chloroethane	8.54	64.0	66782	124.22	UG/L	92
7)	Trichlorofluoromethane-FREON11	10.52	101.0	58494	159.09	UG/L	95
8)	1,1-Dichloroethene	12.000	96.0	55852	52.92	UG/L	95
10)	Acetone	10.82	43.0	129748	408.25	UG/L	84
11)	Methylene Chloride	12.50	84.0	25864	52.92	UG/L	92
12)	Acrylonitrile	12.51	53.0	166802	545.14	UG/L	91
13)	Carbon Disulfide	12.92	76.0	175565	50.52	UG/L	98
14)	Methyl t-butyl ether	14.95	73.0	162552	52.59	UG/L	88
15)	trans-1,2-Dichloroethene	14.52	96.0	52952	51.52	UG/L	95
16)	Vinyl acetate	15.81	43.0	86262	55.11	UG/L	92
17)	1,1-Dichloroethane	15.24	63.0	109492	52.25	UG/L	98
18)	2-Butanone (MEK)	16.59	43.0	208275	555.82	UG/L	82
19)	cis-1,2-Dichloroethene	16.92	96.0	66158	51.25	UG/L	92
20)	Chloroform	17.54	83.0	140816	50.69	UG/L	95
21)	1,1,1-Trichloroethane	19.50	97.0	110500	49.65	UG/L	95
22)	Carbon tetrachloride	20.54	117.0	92695	50.28	UG/L	92
23)	*1,4-Difluorobenzene	21.06	114.0	208784	50.00	UG/L	98
24)	1,2-Dichloroethane-d4	19.82	65.0	88112	55.29	UG/L	108 82
25)	1,2-Dichloroethane	19.98	62.0	85802	49.44	UG/L	98
26)	Benzene	20.46	78.0	182212	49.19	UG/L	95
27)	Trichloroethene	21.88	95.0	66200	44.69	UG/L	82
28)	1,2-Dichloropropane	21.28	63.0	59262	49.29	UG/L	92
29)	Bromodichloromethane	21.98	83.0	115905	50.99	UG/L	95
30)	Dibromomethane	21.69	93.0	27958	51.54	UG/L	82
32)	4-Methyl-2-pentanone (MIBK)	23.58	43.0	526491	549.54	UG/L	99
33)	cis-1,3-Dichloropropene	23.51	75.0	94289	53.41	UG/L	92
34)	Toluene-d8	24.62	98.0	191155	51.46	UG/L 107	84
35)	*Chlorobenzene-d5	27.04	117.0	155285	50.00	UG/L	92
36)	Toluene	24.25	91.0	199821	50.15	UG/L	98
37)	trans-1,3-Dichloropropene	24.15	75.0	77845	48.53	UG/L	92
38)	1,1,2-Trichloroethane	24.48	97.0	58653	50.26	UG/L	98
39)	2-Hexanone	25.12	43.0	412262	508.06	UG/L	92
40)	Tetrachloroethene	25.99	164.0	56385	49.65	UG/L	82
41)	Dibromochloromethane	25.98	129.0	108249	52.66	UG/L	92
42)	Chlorobenzene	27.18	112.0	144928	50.19	UG/L	92
43)	Ethylbenzene	27.41	106.0	62442	49.15	UG/L	92
44)	m&p-Xylene	27.72	106.0	127262	101.55	UG/L	96
45)	o-Xylene	28.55	106.0	51689	51.55	UG/L	92

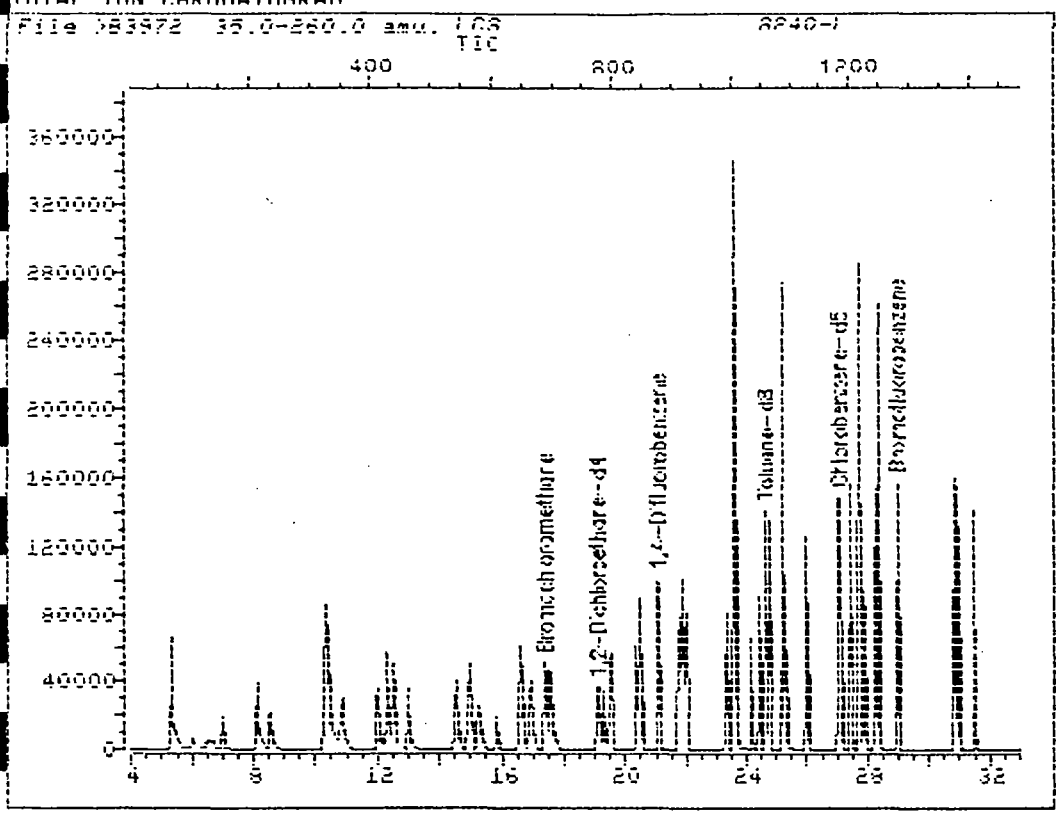
Operator ID: [illegible] Quant Rev: 2 Quant Time: 950801 15:54
Output File: ^B3922::D2 Injected at: 950801 15:21
Data File: >B3922::D2 Dilution Factor: 1.000000
Name: LCS Instrument ID: MS-B
Misc: 8240-1

ID File: IDVW3::SC
Title: 624/8240 Volatiles by MS
Last Calibration: 950728 08:30 Last Qcal Time: 950801 10:01

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	Styrene	28.23	104.0	138940	51.62	UG/L	95
47)	Bromoform	27.86	173.0	81613	54.70	UG/L	95
48)	1,1,2,2-Tetrachloroethane	28.33	83.0	112529	55.22	UG/L	92
49)	Bromofluorobenzene	28.94	95.0	104171	52.43	UG/L 104	99
50)	1,3-Dichlorobenzene	30.81	146.0	133638	52.85	UG/L	99
51)	1,4-Dichlorobenzene	30.91	146.0	100152	50.44	UG/L	96
52)	1,2-Dichlorobenzene	31.48	146.0	122132	52.09	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3972::D2 Quant Output File: ^B3972::D2
Name: LCS Instrument ID: MS-B
Misc: 8240-L

Id File: TDVM3::SI
Title: 624/8240 Volatiles by MS
Last Calibration: 950728 08:30 Last Qcal Time: 950801 10:01

Operator ID: JTS
Quant Time : 950801 15:54
Injected at: 950801 15:21

Operator ID: JJS Quant Rev: / Quant Time: 9/10/01 16:43
Output File: C:\HP59/5::DY Injected at: 9/10/01 16:06
Data File: D:\HP59/5::DY Dilution Factor: 1.000000
Name: 1050 Instrument ID: MS-B
Misc: 8260B-1

ID File: DOUW5::5C
Title: 624/8260B Volatiles by MS
Last Calibration: 9/11/28 08:58 Last Qcal Time: 9/10/01 10:01

	Compound	R.T.	Q ion	Area	Conc	Units	Q
1)	*Bromochloromethane	17.58	49.0	57449	50.000	UG/L	97
2)	Dichlorodifluoromethane (CFC-12	5.99	85.0	27256	137.13	UG/L	94
3)	Chloromethane	6.60	50.0	57852	112.55	UG/L	99
4)	Vinyl chloride	6.97	62.0	548000	112.10	UG/L	99
5)	Bromomethane	8.08	94.0	1060758	129.89	UG/L	96
6)	Chloroethane	8.55	64.0	68892	122.57	UG/L	98
7)	Trichlorofluoromethane-FREON11	10.55	101.0	59947	145.62	UG/L	97
8)	1,1-Dichloroethene	12.00	96.0	58992	55.67	UG/L	95
10)	Acetone	10.84	43.0	178977	403.58	UG/L	85
11)	Methylene Chloride	12.52	84.0	25955	54.28	UG/L	97
12)	Acrylonitrile	12.50	53.0	17251	559.84	UG/L	95
13)	Carbon Disulfide	12.99	76.0	180426	51.50	UG/L	99
14)	Methyl t-butyl ether	14.94	73.0	164859	55.07	UG/L	88
15)	trans-1,2-Dichloroethene	14.55	96.0	59042	52.25	UG/L	91
16)	Vinyl acetate	15.02	43.0	86419	52.94	UG/L	95
17)	1,1-Dichloroethane	15.25	63.0	110295	52.52	UG/L	98
18)	2-Butanone (MEK)	16.60	43.0	279569	551.45	UG/L	87
19)	cis-1,2-Dichloroethene	16.95	96.0	65872	50.85	UG/L	98
20)	Chloroform	17.56	83.0	141798	50.61	UG/L	96
21)	1,1,1-Trichloroethane	19.49	97.0	107084	51.02	UG/L	95
22)	Carbon tetrachloride	20.05	117.0	100459	51.94	UG/L	92
23)	*1,4-Difluorobenzene	21.08	114.0	200218	50.000	UG/L	99
24)	1,2-Dichloroethane-d4	19.08	65.0	85070	51.41	UG/L	10✓ 82
25)	1,2-Dichloroethane	19.28	62.0	84939	49.25	UG/L	99
26)	Benzene	20.42	78.0	193458	50.18	UG/L	95
27)	Trichloroethene	21.88	95.0	21105	47.16	UG/L	84
28)	1,2-Dichloropropane	21.80	63.0	60448	50.22	UG/L	96
29)	Bromodichloromethane	21.98	83.0	118752	52.62	UG/L	95
32)	4-Methyl-2-pentanone (MIBK)	23.58	43.0	588589	550.52	UG/L	97
33)	cis-1,3-Dichloropropene	23.30	75.0	98182	54.80	UG/L	95
34)	Toluene-d8	24.61	98.0	195761	52.18	UG/L	10✓ 85
35)	*Chlorobenzene-d5	27.04	117.0	163835	50.000	UG/L	95
36)	Toluene	24.25	91.0	210642	49.04	UG/L	95
37)	trans-1,3-Dichloropropene	24.14	75.0	75635	46.94	UG/L	89
38)	1,1,2-Trichloroethane	24.40	97.0	60102	49.44	UG/L	91
39)	2-Hexanone	25.16	43.0	416958	556.84	UG/L	94
40)	Tetrachloroethene	25.28	164.0	59625	49.92	UG/L	91
41)	Dibromochloromethane	25.28	129.0	111529	51.99	UG/L	95
42)	Chlorobenzene	27.10	112.0	154652	50.90	UG/L	93
43)	Ethylbenzene	27.45	106.0	71735	49.68	UG/L	99
44)	m&p-Xylene	27.72	106.0	180879	101.51	UG/L	96
45)	o-Xylene	28.35	106.0	84511	50.66	UG/L	97
46)	Styrene	28.25	104.0	145013	51.52	UG/L	92

QUANT REPORT

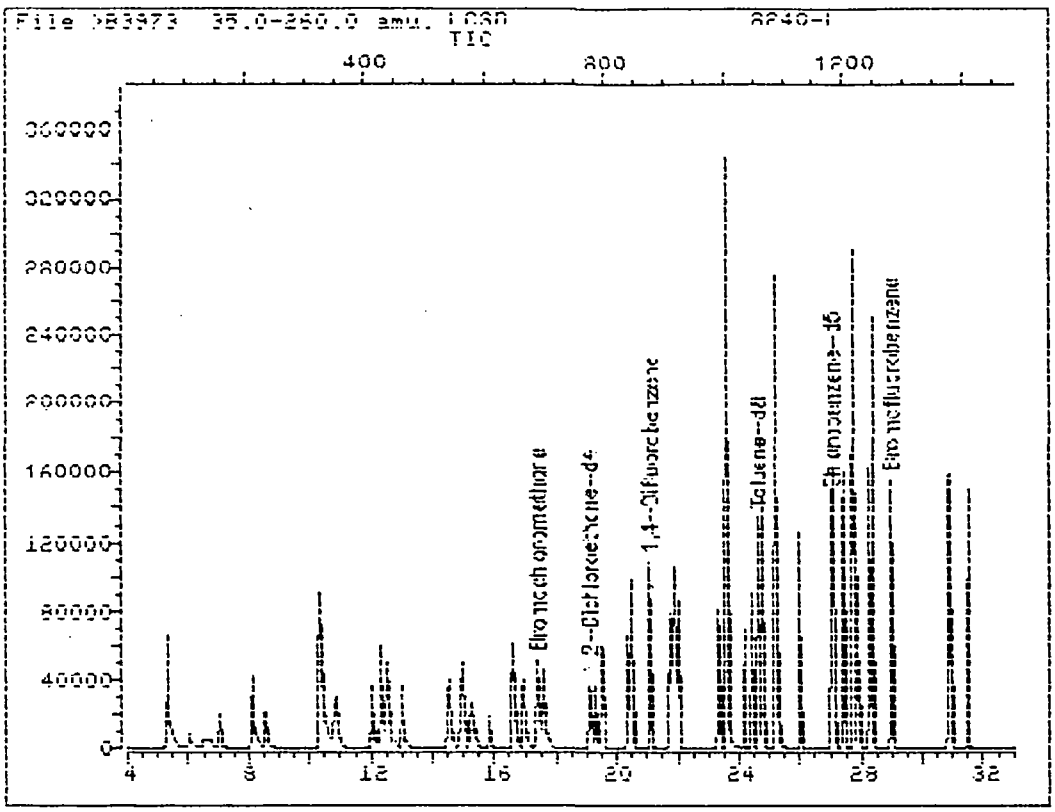
erator ID: JIS
Quant Rev: 2
Quant Time: 950801 16:40
tput File: ^B3973::D2
Injected at: 950801 16:06
Data File: >B3973::D2
Dilution Factor: 1.00000
ame: LCSD
Instrument ID: MS-B
sc: 8240-1

D File: IDVW3::SC
itle: 624/8240 Volatiles by MS
ast Calibration: 950728 08:30
Last Qcal Time: 950801 10:01

	Compound	R.T.	Q ion	Area	Conc	Units	q
47)	Bromoform	27.88	173.0	85852	54.68	UG/L	95
48)	1,1,2,2-Tetrachloroethane	28.33	83.0	113485	53.46	UG/L	97
49)	Bromofluorobenzene	28.93	95.0	106122	50.22	UG/L 10Y	92
50)	1,3-Dichlorobenzene	30.81	146.0	135628	50.97	UG/L	99
51)	1,4-Dichlorobenzene	30.93	146.0	108835	52.09	UG/L	96
52)	1,2-Dichlorobenzene	31.47	146.0	126360	51.21	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B3973::D2
Name: LCSD
Misc: 8240-1

Quant Output File: ^B3973::D2
Instrument ID: MS-B

Id File: IDVW3::SL
Title: 624/8240 Volatiles by MS
Last Calibration: 950728 08:30
Last Qcal Time: 950801 10:03

Operator ID: JTS
Quant Time : 950801 16:40
Injected at: 950801 16:06

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Pace, Inc. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	Method Blank	104	107	100		0
02	67103.7MS	107	107	107		0
03	67103.7MSD	107	104	107		0
04	LCS	107	104	108		0
05	LCSD	104	107	107		0
06	67103.7	104	107	104		0
07	67104.0	100	107	107		0
08	67098.7	104	107	100		0
09	67100.8	107	107	107		0
10	67099.0	107	107	107		0
11	67101.6	100	106	107		0
12	67107.4	107	104	107		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

PACE, Inc., Tampa, Florida

METALS SAMPLE DIGESTION LOG

000055

Page _____

Sample #	Date Digestion Began	Date Completed	Initial Vol. or Weight (g or ml)	Final Volume (ml)	Digestion Method #	Date Entered into LDMS	Dig. Batch #	Comments	Analyst Initials
67001.0 ~~67044~~ JMT	7/31	7/31	50 ml	50 ml	3020	7/31	F-547	KS	JMT
2.8									
3.6									
4.4									
LCS								1 ml SPK IV 19.7 PACE # 355-AA58	
MB									
65986.5	8/1	8/1	50 ml	50 ml	3010	8/1	F-549	VIRO	
87.3									
88.1									
89.0									
66363.3								C.O.O	
65.0									
68.4									
67019.2								CHROM	
67103.2								RFW EP-1	
								0.1 EA. Sb # J-Sb02002 MO # J-MO01086 2007 KS3 J-MEB 25051 2007 KS4 J-MEB 25033 T.5 ml B # 2-262B + 1 ml NA J-NA02003	
67099.0								MW-W	
98.2								MW-E	

WPPFORM:143

PACE, Inc., Tampa, Florida

000056

METALS SAMPLE DIGESTION LOG

Page _____

Sample #	Date Digestion Began	Date Completed	Initial Vol. or Weight (g or ml)	Final Volume (ml)	Digestion Method #	Date Entered into LDMS	Dig. Batch #	Comments	Analyst Initials
67100.8	8/1	8/1	50ml	50ml	3010	8/1	F-549	RFW MW-S	JMT
101.6								MW-N	
102.4								MW-WD	
104.0								TB	
67048.6								CES	
LCS								50ml/IV 19.7 PACE #355-AA61	
MB									
659865					3020		F-551	VIRO	
87.3									
88.1									
89.0									
66363.3								C.OO.	
65.0									
68.4									
67103.2								RFW EP-1	
								1ml/IV 19.7 PACE #355-AA58	
67099.0								MW-W	
67098.2								MW-E	

WPPFORM:143

PACE, Inc., Tampa, Florida

METALS SAMPLE DIGESTION LOG

Page 000057

Sample #	Date Digestion Began	Date Completed	Initial Vol. or Weight (g or ml)	Final Volume (ml)	Digestion Method #	Date Entered into LDMS	Dig. Batch #	Comments	Analyst Initials
67100.8	8/1	8/1	50ml	50ml	3020	8/1	F-551	RFW MW-S	JMT
101.6								MW-N	
102.4								MW-WD	
104.0								TB	
LCS								1 ml/spk II 19,7 PACE # 355-AA58	
MB									
65986.5					206.2		F-553	VIRD	
87.3									
88.1									
89.0									
66363.3								C.O.D	
65.0									
68.4									
67103.2								RFW EP-1	
								1 ml/spk II 19,7 PACE # 355-AA58	
67099.0								MW-W	
98.2								MW-E	
100.8								MW-S	

WPPFORM:143

PACE, Inc., Tampa, Florida

000058

METALS SAMPLE DIGESTION LOG

Page _____

Sample #	Date Digestion Began	Date Completed	Initial Vol. or Weight (g or ml)	Final Volume (ml)	Digestion Method #	Date Entered into LDMS	Dig. Batch #	Comments	Analyst Initials
67101.6	8/1	8/1	50ml	50ml	206.2	8/1	F-553	RFW MW-N	JMT
102.4								MW-WD	
104.0								TB	
LCS								1ml SPK IV 19,7 PACE #355-MA58	
MB									
65956.3	8/2	8/2	50ml	50ml	3010	8/2	F-555	ENV. COMP.	
MS								0.1ml EA Sb #I-SB02002R MO #I-MO011086	
MSD								2007 ICS3 I-MEB2505, 2007 ICS4	
67029.0								+1ml NA I-NA02003 I-MEB25033	
~~67091.5~~								VIRO	
30.3									
31.1									
32.0									
MS									
MSD									
33.8									
34.6									
35.4									
LCS								50ml IV 19,7 PACE #355-MA61	
MB									

WPPFORM:143

PACE, Inc., Tampa, Florida

000038

METALS SAMPLE DIGESTION LOG

Page _____

Sample #	Date Digestion Began	Date Completed	Initial Vol. or Weight (g or ml)	Final Volume (ml)	Digestion Method #	Date Entered into LDMS	Dig. Batch #	Comments	Analyst Initials
65986.5	8/3	8/3	50	50	3020	8/3	F572	Redig MISS	PLE
87.3									
88.1									
89.0								EBLK	
66363.3								COD	
65.0								EBLK	
68.4									
67098.2								RFWI	
98.2 MS								* PACE #3556 AA58 1ml 2ppm IV/9 IV/7	
98.2 MSD									
99.0									
67100.8									
01.6									
02.4									
03.2									
04.0								T.BLK	
MB									
LCS								*	

VARIAN ZEEMAN 400

PROGRAM 1	Pb 239.2 7421	QC ZEEMAN
BLANK	REPLICATE 1	
ABSORBANCE	CONCENTRATION	SAMPLER AUTOMIX
PEAK AREA	MAX.ABS. 1.40	BC ON

RINTING

SAMPLE LABELS

1. mb f-570	2. lcs tv=40	3. 65945.8
4. 65915.0	5. 65970.9	6. 65970 md
7. 65970 ms+40	8. 65970 msd	9. mb f-572
10. lcs tv=40	11. 67098.2	12. 67098 ms+40
13. 67098 msd	14. 67099.0	15. 67100.8
16. 67101.6	17. 67102.4	18. 67103.2
19. 67104.0	20. 65986.5	21. 65987.3
22. 65988.1	23. 65989.0	24. 66363.0
25. 66365.0	26. 66368.4	27.
28.	29.	30.
31.	32.	33.
34.	35.	36.
37.	38.	39.
40.	41.	42.
43.	44.	45.

F INCREMENT
1 LABELS

F CALIBRA-
5 TION

Varian SpectrAA 300/400 Zeeman QC Protocol Report

PACE, INC.
5460 BEAUMONT CENTER BLVD
TAMPA, FL. 33634

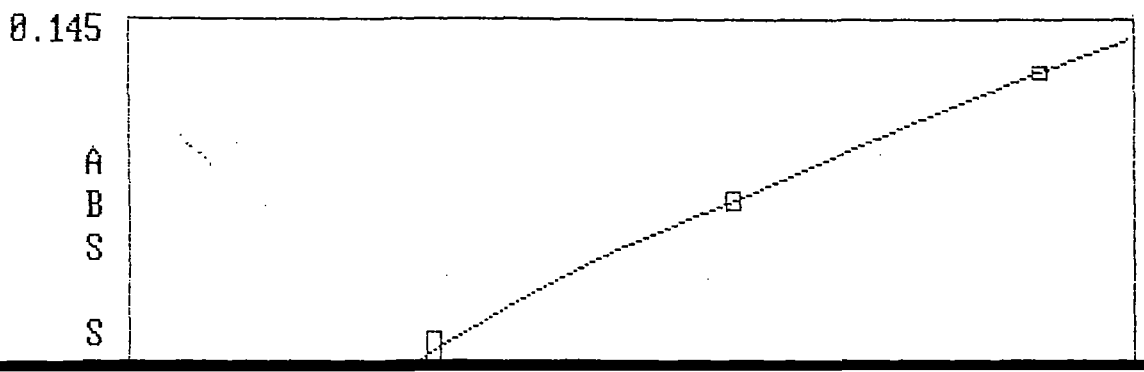
OPERATOR EMK
DATE 08/04/95
BATCH 1ppm PB AA2-01: 1:10 DF

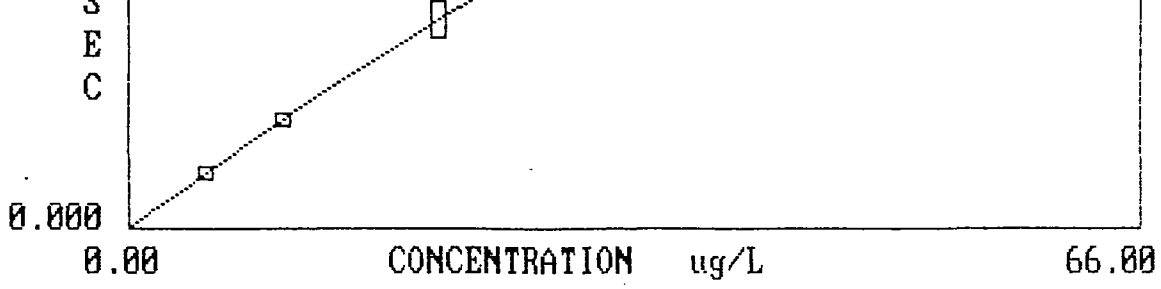
PROGRAM 1 Pb 239.2 (7421)

RECEIVED
AUG 0 7 1995

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS	
BLANK	0.00		-0.000	0.000	-0.001

QC				04Aug95	09:18
				CONCENTRATION LESS THAN IDL	
STANDARD 1	5.00	4.4	0.014	0.015	0.014
QC				04Aug95	09:22
STANDARD 2	10.00	3.7	0.029	0.029	0.028
QC				04Aug95	09:27
STANDARD 3	20.00	7.8	0.056	0.053	0.059
QC				04Aug95	09:32
STANDARD 4	40.00	1.4	0.097	0.096	0.098
QC				04Aug95	09:37
STANDARD 5	60.00	0.4	0.132	0.133	0.132
QC				04Aug95	09:42





SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
ICV TV=80 QC	47.83	1.8	0.111	0.113 0.110 04Aug95 09:47 %R = 95.7
ICB	-0.88	15.0	-0.003	-0.002 -0.003 04Aug95 09:52 ABS = -0.003 CONCENTRATION LESS THAN IDL
f-570 QC	-0.21	99.9	-0.001	-0.000 -0.001 04Aug95 09:56 CONCENTRATION LESS THAN IDL
CV 1 QC	47.35	1.3	0.111	0.112 0.110 04Aug95 10:01 %R = 94.7
CCB 1 QC	-0.68	0.0	-0.002	-0.002 -0.002 04Aug95 10:05 ABS = -0.002 CONCENTRATION LESS THAN IDL
cs tv=40 C	38.57	3.4	0.095	0.097 0.093 04Aug95 10:10
65945.8 C	0.47	15.7	0.001	0.001 0.001 04Aug95 10:15 CONCENTRATION LESS THAN IDL

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
65915.0 C	0.13	57.7	0.000	0.001 0.000 04Aug95 10:19 CONCENTRATION LESS THAN IDL
65970.9 C	-1.19	33.7	-0.003	-0.004 -0.003 04Aug95 10:24 CONCENTRATION LESS THAN IDL
5970 md C	-0.81	31.2	-0.002	-0.002 -0.003 04Aug95 10:28

				CONCENTRATION LESS THAN IDL
65970 ms+40 QC	43.69	0.8	0.104	0.104 0.105 04Aug95 10:32
65970 msd QC	43.58	2.0	0.104	0.102 0.105 04Aug95 10:37
mb f-572 QC	-0.73	16.5	-0.002	-0.002 -0.002 04Aug95 10:41 CONCENTRATION LESS THAN IDL
lcs tv=40 QC	42.24	0.8	0.101	0.101 0.102 04Aug95 10:46
67098.2 QC	7.76	4.1	0.022	0.022 0.023 04Aug95 10:50
CCV 2 QC	53.13	1.0	0.121	0.122 0.120 04Aug95 10:54 %R = 106.3
CCB 2 QC	-1.09	0.0	-0.003	-0.003 -0.003 04Aug95 10:59 ABS = -0.003 CONCENTRATION LESS THAN IDL
67098 ms+40 QC	52.99	0.7	0.120	0.121 0.120 04Aug95 11:04
67098 msd QC	51.90	1.5	0.119	0.120 0.117 04Aug95 11:08
67099.0 QC	11.94	0.4	0.034	0.034 0.034 04Aug95 11:12
67100.8 QC	20.57	0.9	0.058	0.057 0.058 04Aug95 11:17
67101.6 QC	6.93	1.4	0.020	0.020 0.020 04Aug95 11:21
67102.4 QC	6.68	8.7	0.019	0.020 0.018 04Aug95 11:26
67103.2 QC	2.30	4.2	0.007	0.007 0.006 04Aug95 11:30

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
67104.0 QC	-0.68	12.5	-0.002	-0.002 -0.002 04Aug95 11:35 CONCENTRATION LESS THAN IDL
65986.5 QC	57.14	0.3	0.127	0.128 0.127 04Aug95 11:40
65987.3 QC	21.19	0.5	0.059	0.059 0.059 04Aug95 11:44
CCV 3	48.26	0.8	0.112	0.112 0.113

CCV 3	48.26	0.8	0.112	0.112 0.113
QC				04Aug95 11:49
				%R = 96.5
CCB 3	-0.76	4.0	-0.002	-0.002 -0.002
QC				04Aug95 11:53
				ABS = -0.002
				CONCENTRATION LESS THAN IDL
5988.1	0.00	99.9	0.000	0.000 -0.000
QC				04Aug95 11:58
				CONCENTRATION LESS THAN IDL
5989.0	-0.58	31.9	-0.002	-0.001 -0.002
QC				04Aug95 12:03
				CONCENTRATION LESS THAN IDL
6363.0	-1.66	16.9	-0.005	-0.004 -0.005
QC				04Aug95 12:07
				CONCENTRATION LESS THAN IDL
6365.0	-0.50	0.0	-0.001	-0.001 -0.001
QC				04Aug95 12:12
				CONCENTRATION LESS THAN IDL
CCV 4	56.37	6.9	0.126	0.120 0.132
QC				04Aug95 12:16
				%R = 112.7
CCB 4	-0.80	4.6	-0.002	-0.002 -0.002
QC				04Aug95 12:21
				ABS = -0.002
				CONCENTRATION LESS THAN IDL
BLANK	0.00		-0.002	-0.002 -0.003
QC				04Aug95 12:26
				CONCENTRATION LESS THAN IDL
PRESLOPE 3	20.00	0.4	0.060	0.060 0.060
QC				04Aug95 12:31
CCV 5	51.27	1.8	0.124	0.125 0.122
QC				04Aug95 12:35
				%R = 102.5
CCB 5	-0.29	92.0	-0.001	-0.000 -0.001
QC				04Aug95 12:40
				ABS = -0.002
				CONCENTRATION LESS THAN IDL

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
6368.4	1.26	8.0	0.004	0.004 0.004
QC				04Aug95 12:44
				CONCENTRATION LESS THAN IDL
CCV 6	50.16	2.0	0.122	0.120 0.124
QC				04Aug95 12:49
				%R = 100.3
CCB 6	-0.21	9.3	-0.001	-0.001 -0.001
QC				04Aug95 12:53

ABS = -0.001
CONCENTRATION LESS THAN IDL

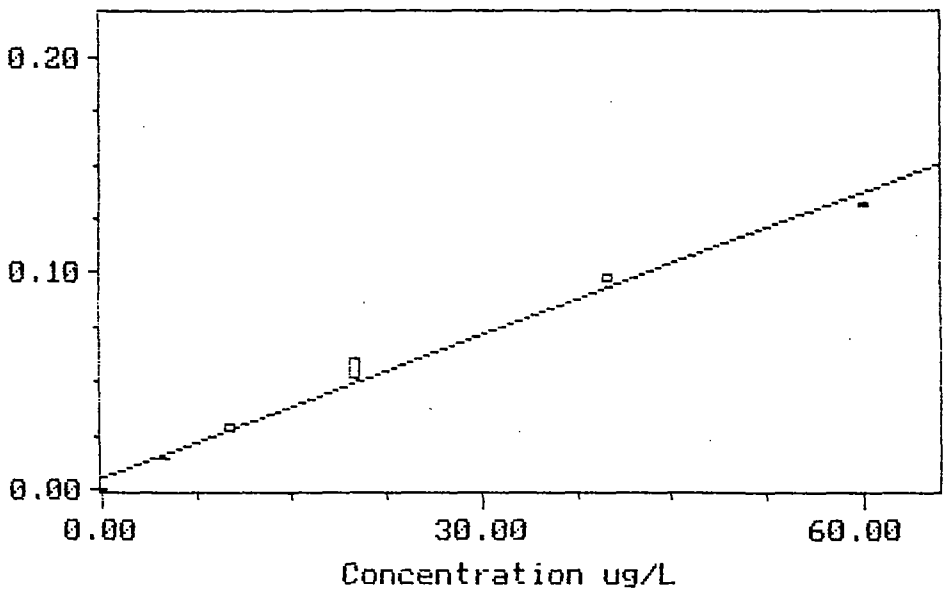
VST SpectrAA/PC Report, AUG- 4-1995 01:31:53 PM, Page 1/2

Operator EMK
Date 08/04/95
Batch 1ppm PB AA2-01: 1:10 DF

Program 1 Pb 239.2 7421

SAMPLE	CONC ug/L
BLANK	0.00
STANDARD 1	5.00
STANDARD 2	10.00
STANDARD 3	20.00
STANDARD 4	40.00
STANDARD 5	60.00

ABS Pb 239.2 7421



Conc Linear Fit
Slope Change -23.5%
Sens'ty -0.41 ug/L
r^2 0.9906
r 0.9953

SAMPLE	CONC ug/L
mb f-570	-2.68
lcs tv=40	40.81
65945.8	-1.80
65915.0	-2.25
65970.9	-3.97
65970 md	-3.46
65970 ms+40	44.94
65970 msd	44.85
mb f-572	-3.36
lcs tv=40	43.74
67098.2	7.72
67098 ms+40	52.33
67098 msd	51.50
67099.0	13.11
67100.8	23.78
67101.6	6.63

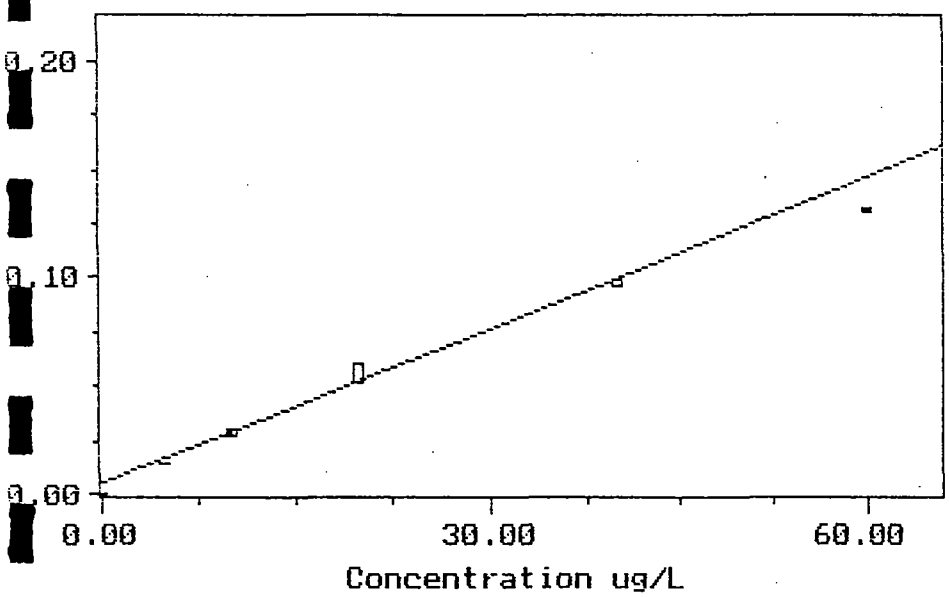
67101.6	8.83
67102.4	6.31
[redacted]103.2	0.59
[redacted]104.0	-3.30

[redacted]

[redacted]ST SpectrAA/PC Report, AUG- 4-1995 01:31:54 PM, Page 2/2

SAMPLE	CONC ug/L
[redacted]5986.5	55.52
65987.3	24.48
[redacted]5988.1	-2.42
[redacted]5989.0	-3.16
66363.0	-4.58
[redacted]6365.0	-3.07
[redacted]ANK	0.00
RESLOPE 3	20.00

[redacted]S Pb 239.2 7421



Conc Linear Fit
Slope Change -23.5%
Sens'ty -0.39 ug/L
r^2 0.9906
r 0.9953

[redacted]AMPLE	CONC ug/L
[redacted]5368.4	-0.61

[redacted]

VARIAN ZEEMAN 400

PROGRAM 3	Se 270.2 7740	QC ZEEMAN
BLANK	REPLICATE 1	
ABSORBANCE	CONCENTRATION	SAMPLER AUTOMIX
PEAK AREA	MAX.ABS. 1.20	BC ON

PRINTING

SAMPLE LABELS

1. mb f-553	2. lcs tv=40	3. 67098.2
4. 67099.0	5. 67100.8	6. 67101.6
7. 67102.4	8. 67103.2	9. 67103 ms+40
10. 67103 msd	11. 67104.0	12. 66363.3
13. 66365.0	14. 66368.4	15.
16.	17.	18.
19.	20.	21.
22.	23.	24.
25.	26.	27.
28.	29.	30.
31.	32.	33.
34.	35.	36.
37.	38.	39.
40.	41.	42.
43.	44.	45.

F INCREMENT
1 LABELS

F CALIBRATION
5 TION

Varian SpectrAA 300/400 Zeeman QC Protocol Report

PACE, INC.
5460 BEAUMONT CENTER BLVD
TAMPA, FL. 33634

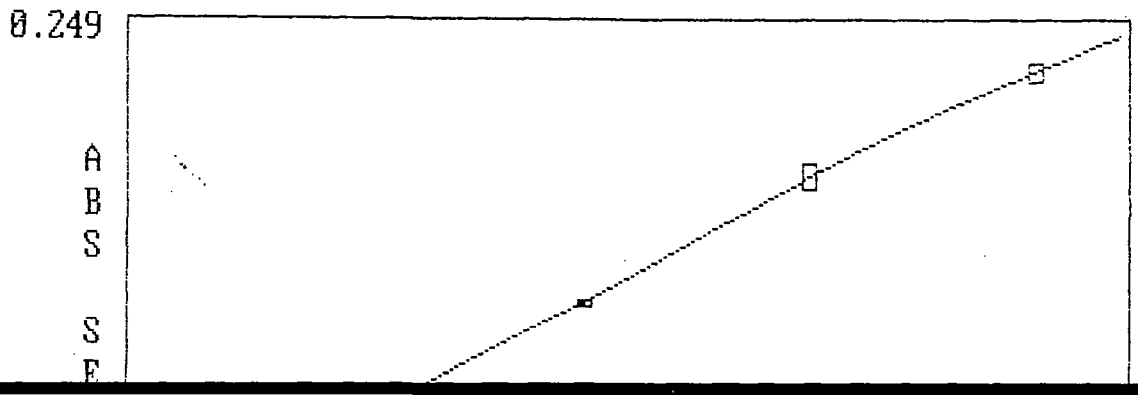
OPERATOR EMK
DATE 08/03/95
BATCH 1ppm AS/SE AA2-01: 1:10 DF

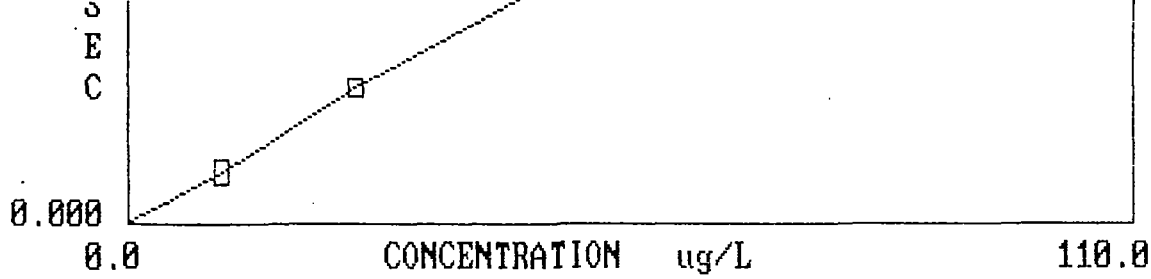
PROGRAM 3 Se 270.2 (7740)

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS	
BLANK	0.0		0.006	0.009	0.002

QC 03Aug95 16:40

				03Aug95	16:40
				CONCENTRATION LESS THAN IDL	
STANDARD 1	10.0	15.7	0.023	0.026	0.020
QC				03Aug95	16:45
STANDARD 2	25.0	3.4	0.064	0.063	0.066
QC				03Aug95	16:51
STANDARD 3	50.0	0.4	0.120	0.120	0.120
QC				03Aug95	16:56
STANDARD 4	75.0	2.3	0.179	0.176	0.182
QC				03Aug95	17:01
STANDARD 5	100.0	1.0	0.227	0.225	0.228
QC				03Aug95	17:06





SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
ICV TVE50 QC	50.1	1.4	0.120	0.119 0.122 03Aug95 17:11 %R = 100.3
ICB C	-0.9	42.4	-0.002	-0.001 -0.003 03Aug95 17:16 ABS = -0.001 CONCENTRATION LESS THAN IDL
b f-553 C	0.5	86.7	0.001	0.002 0.000 03Aug95 17:21 CONCENTRATION LESS THAN IDL
CV 1 QC	50.2	4.0	0.121	0.124 0.117 03Aug95 17:26 %R = 100.4
CB 1 QC	-1.0	80.3	-0.002	-0.001 -0.004 03Aug95 17:31 ABS = -0.001 CONCENTRATION LESS THAN IDL
lcs tv=40 C	42.3	0.3	0.104	0.104 0.103 03Aug95 17:36
67098.2 C	1.3	99.9	0.003	0.006 -0.000 03Aug95 17:41 CONCENTRATION LESS THAN IDL

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
67099.0 QC	3.3	7.4	0.008	0.007 0.008 03Aug95 17:46
67100.8 QC	-0.5	99.9	-0.001	-0.003 0.001 03Aug95 17:51 CONCENTRATION LESS THAN IDL
67101.6 QC	-0.1	99.9	-0.000	-0.003 0.003 03Aug95 17:55 CONCENTRATION LESS THAN IDL

67102.4	0.6	99.9	0.001	0.004 -0.001
QC				03Aug95 18:00
				CONCENTRATION LESS THAN IDL
67103.2	0.9	2.9	0.002	0.002 0.002
QC				03Aug95 18:05
				CONCENTRATION LESS THAN IDL
67103 ms+40	31.2	0.6	0.079	0.078 0.079
QC				03Aug95 18:10
67103 msd	28.9	2.6	0.073	0.075 0.072
QC				03Aug95 18:14
67104.0	-0.8	99.9	-0.002	-0.004 0.000
QC				03Aug95 18:19
				CONCENTRATION LESS THAN IDL
CCV 2	50.4	0.1	0.121	0.121 0.121
QC				03Aug95 18:24
				%R = 100.8
CCB 2	0.3	99.9	0.001	-0.002 0.003
QC				03Aug95 18:29
				ABS = 0.002
				CONCENTRATION LESS THAN IDL
66363.3	2.9	71.8	0.007	0.010 0.003
QC				03Aug95 18:34
				CONCENTRATION LESS THAN IDL
66365.0	1.2	48.4	0.003	0.002 0.004
QC				03Aug95 18:39
				CONCENTRATION LESS THAN IDL
66368.4	-0.6	28.2	-0.001	-0.002 -0.001
QC				03Aug95 18:43
				CONCENTRATION LESS THAN IDL
CCV 3	48.3	0.2	0.117	0.116 0.117
QC				03Aug95 18:48
				%R = 96.6
CCB 3	1.5	31.3	0.003	0.003 0.004
QC				03Aug95 18:53
				ABS = 0.005
				CONCENTRATION LESS THAN IDL

VST SpectrAA/PC Report, AUG- 4-1995 08:38:58 AM, Page 1/1

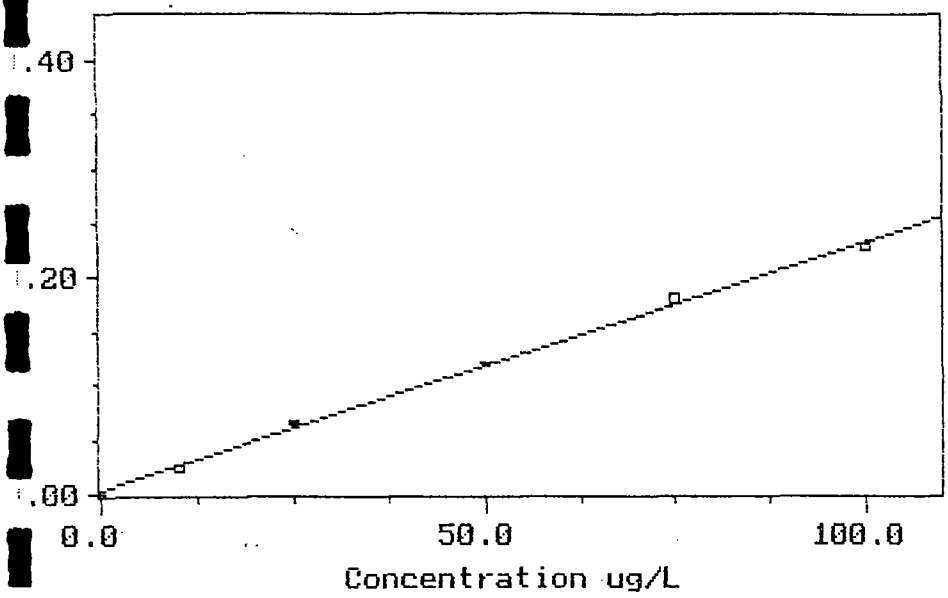
Operator EMK
Date 08/03/95
Batch 1ppm AS/SE AA2-01: 1:10 DF

Program 3 Se 270.2 7740

SAMPLE	CONC ug/L
BLANK	0.0
STANDARD 1	10.0
STANDARD 2	25.0
STANDARD 3	50.0

TANDARD 2	25.0
TANDARD 3	50.0
ANDARD 4	75.0
ANDARD 5	100.0

RS Se 270.2 7740



Conc Linear Fit
Slope Change -0.6%
Sens'ty 0.7 ug/L
r^2 0.9979
r 0.9989

AMPLE	CONC ug/L
b f-553	-0.8
s tv=40	44.0
7098.2	0.1
7099.0	2.1
7100.8	-1.7
7101.6	-1.3
7102.4	-0.7
7103.2	-0.4
7103 ms+40	33.1
7103 msd	30.7
7104.0	-2.0
6363.3	1.6
6365.0	-0.0
6368.4	-1.9

VARIAN ZEEMAN 400

PROGRAM 2	As 206.2 7060	QC ZEEMAN
BLANK	REPLICATE 1	
ABSORBANCE	CONCENTRATION	SAMPLER AUTOMIX
PEAK AREA	MAX.ABS. 0.95	BC ON

PRINTING

SAMPLE LABELS

1. mb f-553	2. lcs tv=40	3. 67098.2
4. 67099.0	5. 67100.8	6. 67101.6
7. 67102.4	8. 67103.2	9. 67103 ms+40
10. 67103 msd	11. 67104.0	12. 66363.3
13. 66365.0	14. 66368.4	15. 65986.5
16. 65987.3	17. 65988.1	18. 65989.0
19. id11 tv=5	20. id12	21. id13
22. id14	23. id15	24. id16
25. id17	26.	27.
28.	29.	30.
31.	32.	33.
34.	35.	36.
37.	38.	39.
40.	41.	42.
43.	44.	45.

F INCREMENT
1 LABELS

F CALIBRA-
5 TION

Varian SpectrAA 300/400 Zeeman
QC Protocol Report

PACE, INC.
5460 BEAUMONT CENTER BLVD
TAMPA, FL. 33634

OPERATOR	EMK
DATE	08/03/95
BATCH	1ppm AS/SE AA2-01: 1:10 DF

PROGRAM 2: As 206.2 (7060)

PROGRAM 2 As 206.2 7060 QC ZEEMAN
BLANK REPLICATE 1
ABSORBANCE CONCENTRATION SAMPLER AUTOMIX
PEAK AREA MAX.ABS. 0.95 BC ON

AUTOMATIC RUN PAUSED PRINTING

SAMPLE LABELS

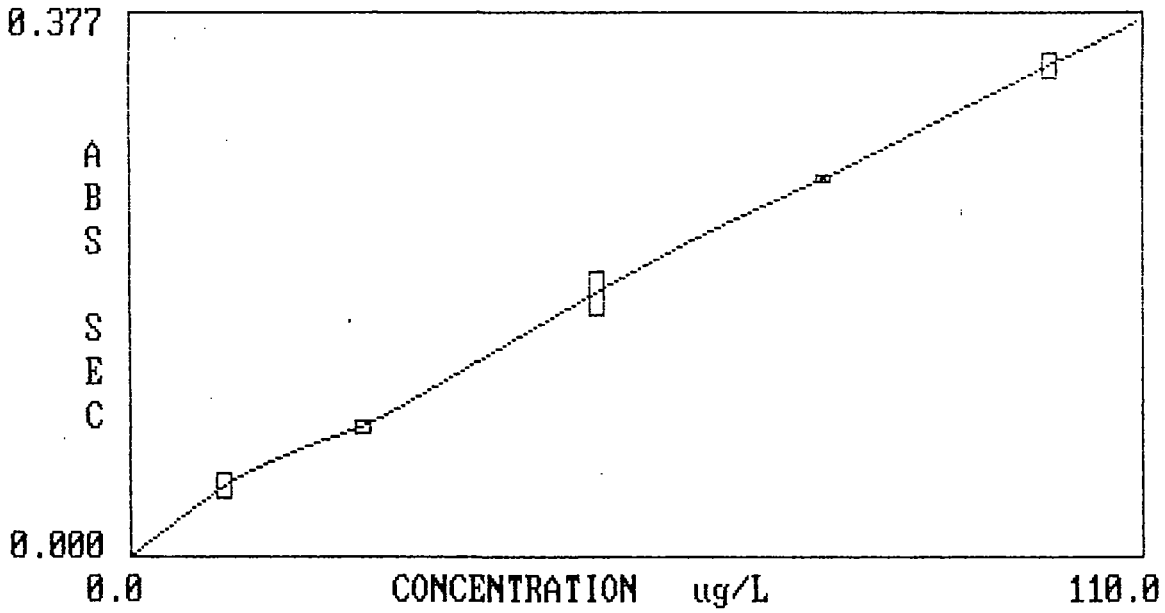
1. mb f-553	2. lcs tv=40	3. 67098.2
4. 67099.0	5. 67100.8	6. 67101.6
7. 67102.4	8. 67103.2	9. 67103 ms+40
10. 67103 msd	11. 67104.0	12. 66363.3
13. 66365.0	14. 66368.4	15. 65986.5
16. 65987.3	17. 65988.1	18. 65989.0
19. mb f-545	20. lcs tv=40	21. 65945.8
22. 65945 ms+40	23. 65945msd	24.
25.	26. _	27.
28.	29.	30.
31.	32.	33.
34.	35.	36.
37.	38.	39.
40.	41.	42.
43.	44.	45.

F INCREMENT
1 LABELS

E CALIBRA-
5 TION

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS	
BLANK QC	0.0		0.012	0.015	0.010
				03Aug95	10:08
				CONCENTRATION LESS THAN IDL	
STANDARD 1 QC	10.0	12.6	0.048	0.052	0.044
				03Aug95	10:13
STANDARD 2 QC	25.0	1.3	0.090	0.091	0.089
				03Aug95	10:19
STANDARD 3 QC	50.0	6.7	0.184	0.175	0.192
				03Aug95	10:24

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS	
STANDARD 4	75.0	0.0	0.263	0.263	0.263
				03Aug95	10:29
STANDARD 5	100.0	1.9	0.342	0.338	0.347
				03Aug95	10:34



CCV TV=50	50.1	0.3	0.184	0.184	0.184
				03Aug95	10:39
				%R =	100.2
CCB QC	0.7	99.9	0.003	0.006	0.000
				03Aug95	10:45
				ABS =	0.006
				CONCENTRATION LESS THAN IDL	
mb f-553	0.1	99.9	0.001	0.003	-0.002
				03Aug95	10:49
				CONCENTRATION LESS THAN IDL	
CCV 1	46.3	8.4	0.169	0.180	0.159
				03Aug95	10:54
				%R =	92.6
CCB 1	-0.6	20.8	-0.003	-0.002	-0.003
				03Aug95	10:59
				ABS =	0.000

CONCENTRATION LESS THAN IDL

SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS
lcs tv=40	38.5	8.1	0.140	0.148 0.132
QC				03Aug95 11:04
67098.2	10.0	3.2	0.048	0.047 0.049
QC				03Aug95 11:09
67099.0	7.1	5.4	0.034	0.033 0.035
QC				03Aug95 11:14
67100.8	3.4	39.6	0.016	0.021 0.012
QC				03Aug95 11:19
67101.6	3.0	41.7	0.014	0.019 0.010
QC				03Aug95 11:24
67102.4	8.4	0.3	0.040	0.040 0.040
QC				03Aug95 11:29
67103.2	10.6	28.1	0.050	0.040 0.060
QC				03Aug95 11:34
				%RSD GREATER THAN LIMIT
67103.2	9.3	10.7	0.045	0.041 0.048
QC				03Aug95 11:38
67103 ms+40	52.9	4.6	0.194	0.187 0.200
QC				03Aug95 11:43
67103 msd	54.3	4.0	0.199	0.193 0.204
QC				03Aug95 11:48
CCV 2	47.2	0.8	0.173	0.174 0.172
QC				03Aug95 11:53
				%R = 94.5
CCB 2	0.9	58.1	0.004	0.006 0.003
QC				03Aug95 11:58
				ABS = 0.008
				CONCENTRATION LESS THAN IDL
67104.0	0.0	99.9	0.000	0.002 -0.002
QC				03Aug95 12:03
				CONCENTRATION LESS THAN IDL
66363.3	-0.8	99.9	-0.004	0.009 -0.016
QC				03Aug95 12:08
				CONCENTRATION LESS THAN IDL
66365.0	-0.6	99.9	-0.003	-0.001 -0.006
QC				03Aug95 12:12
				CONCENTRATION LESS THAN IDL
66368.4	-0.5	99.9	-0.002	-0.007 0.002
QC				03Aug95 12:17
				CONCENTRATION LESS THAN IDL
65986.5	31.6	3.8	0.114	0.117 0.111

55986.5	31.6	3.8	0.114	0.117	0.111
QC				03Aug95	12:22

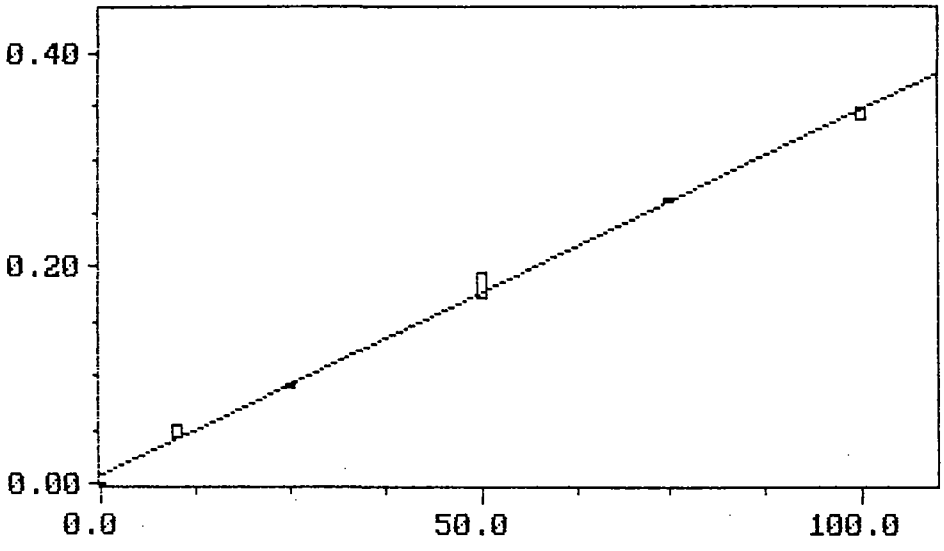
SAMPLE	CONC ug/L	%RSD	MEAN ABS	READINGS	
55987.3	6.1	26.6	0.029	0.024	0.035
QC				03Aug95	12:27
55988.1	-0.6	99.9	-0.003	-0.010	0.004
QC				03Aug95	12:32
				CONCENTRATION LESS THAN IDL	
55989.0	-0.4	99.9	-0.002	-0.012	0.009
QC				03Aug95	12:37
				CONCENTRATION LESS THAN IDL	
mb f-545	0.7	99.9	0.003	0.009	-0.002
C				03Aug95	12:42
				CONCENTRATION LESS THAN IDL	
lcs tv=40	40.7	3.1	0.148	0.152	0.145
C				03Aug95	12:47
CCV 3	52.4	8.0	0.192	0.203	0.181
C				03Aug95	12:52
				%R =	104.8
CCB 3	0.0	99.9	0.000	0.005	-0.005
C				03Aug95	12:57
				ABS =	0.003
				CONCENTRATION LESS THAN IDL	
55945.8	2.4	99.9	0.011	0.002	0.021
QC				03Aug95	13:02
55945 ms+40	47.2	1.1	0.173	0.172	0.174
QC				03Aug95	13:07
55945msd	46.9	0.5	0.172	0.173	0.171
QC				03Aug95	13:12
CCV 4	51.0	1.2	0.187	0.189	0.186
C				03Aug95	13:17
				%R =	102.0
CCB 4	-0.8	12.7	-0.004	-0.004	-0.003
C				03Aug95	13:22
				ABS =	-0.001
				CONCENTRATION LESS THAN IDL	

Operator EMK
Date 08/03/95
Batch 1ppm AS/SE AA2-01: 1:10 DF

Program 2 As 206.2 7060

SAMPLE	CONC ug/L
BLANK	0.0
STANDARD 1	10.0
STANDARD 2	25.0
STANDARD 3	50.0
STANDARD 4	75.0
STANDARD 5	100.0

ABS As 206.2 7060



Conc Linear Fit
Slope Change -29.4%
Sens'ty -0.9 ug/L
r^2 0.9981
r 0.9990

SAMPLE	CONC ug/L
mb f-553	-2.0
lcs tv=40	39.0
67098.2	11.9
67099.0	7.8
67100.8	2.6
67101.6	2.0
67102.4	9.7
67103.2	10.9
67103 ms+40	54.9
67103 msd	56.4
67104.0	-2.2
66363.3	-3.3
66365.0	-3.1
66368.4	-2.9
65986.5	31.4
65987.3	6.4
65988.1	-3.1
65989.0	-2.7
mb f-545	-1.2

SAMPLE	CONC ug/L
lcs tv=40	41.5
65945.8	1.1

5945.8	1.1
5945 ms+40	48.8
5945msd	48.5

8/2/95

PERKIN-ELMER PII

Method Name: run2std

Comment: EPA: 200.7 6010 MATRIX: GW/WW/SW DW SOIL/SLUDGE OIL

Read Delay : 40 sec Replicates : 2 Format name : store

Analysis Number	AS Posn	Sample ID	Sequence Name	Dilution	Weight / Volume
1	1	blank	all		
2	2	wcal standard	all		
3	3	standard	all		
4	4	wcal standard	stnd1		
5	4	standard	stnd1		
6	6	stnd1	all		
7	7	stnd2	stnd1		
8	8	icv	elem		
9	9	icb	elem		
10	10	ics-a	ics	1:25	
11	11	ics-ab	elem		
12	0	di rinse	elem		
13	13	MB F-549	elem		
14	14	LCS	elem		
15	15	67098.2	elem1 AG BA CD CO CR PB		
16	16	67099.0	elem1		
17	17	67100.8	elem1		
18	18	67101.6	elem1		
19	19	67102.4	elem1		
20	20	67103.2	elem		
21	21	67103.2MS	elem		
22	22	67103.2MSD	elem		
23	23	ccv	elem		
24	24	ccb	elem		
25	25	67104.0	elem1		
26	26	65986.5	elem2 CR CD MN		
27	27	65987.3	elem2		

28	28	65988.1	elem2
29	29	65989.0	elem2
30	30	66363.3	elem AC B BA FE MN SB BE CD CR CU NI AG
31	31	66365.0	elem
32	32	66368.4	elem
33	33	67019.2	elem AG CD CR CU MN NO NIPB ZN
34	34	67048.6	ag
35	35	ics-ab	elem
36	0	di rinse	elem
37	37	ccv	elem
38	38	ccb	elem

Interlock - RF safety RF not ready

08/02/95 16:14

blank	rep	1	As1	em	28.5	
	rep	1	Se1	em	16.9	
	rep	1	Mo1	em	9.1	
	rep	1	Cr1	em	10.9	
	rep	1	Sb1	em	16.1	
	rep	1	Zn1	em	11.7	
	rep	1	Cd1	em	9.8	
	rep	1	Pb1	em	15.5	
	rep	1	Co1	em	16.1	
	rep	1	Ni1	em	13.4	
	rep	1	Fe1	em	-1.0	window edge
	rep	1	B1	em	19.8	
	rep	1	Mn1	em	20.4	
	rep	1	Mg1	em	3.1	
	rep	1	Be1	em	7.0	
	rep	1	Cu1	em	63.4	
	rep	1	Ag1	em	5.9	
	rep	1	Ca1	em	18.9	
	rep	1	Al1	em	24.4	
	rep	1	Ba1	em	15.3	
	rep	2	As1	em	2.3	window edge
	rep	2	Se1	em	11.4	
	rep	2	Mo1	em	30.6	
	rep	2	Cr1	em	15.9	
	rep	2	Sb1	em	13.0	
	rep	2	Zn1	em	4.7	
	rep	2	Cd1	em	-1.0	window edge
	rep	2	Pb1	em	41.8	
	rep	2	Co1	em	12.8	
	rep	2	Ni1	em	8.1	
	rep	2	Fe1	em	8.5	
	rep	2	B1	em	20.9	
	rep	2	Mn1	em	11.3	window edge
	rep	2	Mg1	em	3.0	
	rep	2	Be1	em	6.2	
	rep	2	Cu1	em	62.4	
	rep	2	Ag1	em	-3.0	window edge
	rep	2	Ca1	em	21.2	
	rep	2	Al1	em	21.1	

	rep	2	Al1	em	21.1			
	rep	2	Ba1	em	4.6			

blank
08/02/95 16:20

As1	av	15.40	sd	18.465	%cv	119.89
Se1	av	14.17	sd	3.888	%cv	27.44
Mo1	av	19.88	sd	15.194	%cv	76.42
Cr1	av	13.37	sd	3.514	%cv	26.29
Sb1	av	14.53	sd	2.199	%cv	15.14
Zn1	av	8.21	sd	4.915	%cv	59.85
Cd1	av	4.44	sd	7.648	%cv	172.40
Pb1	av	28.68	sd	18.591	%cv	64.81
Co1	av	14.45	sd	2.369	%cv	16.40
Ni1	av	10.76	sd	3.708	%cv	34.47
Fe1	av	3.74	sd	6.689	%cv	179.08
B1	av	20.38	sd	0.778	%cv	3.82
Mn1	av	15.86	sd	6.481	%cv	40.86
Mg1	av	3.07	sd	0.084	%cv	2.74
Be1	av	6.60	sd	0.600	%cv	9.09
Cu1	av	62.91	sd	0.718	%cv	1.14
Ag1	av	1.46	sd	6.295	%cv	431.43
Ca1	av	20.05	sd	1.623	%cv	8.09
Al1	av	22.73	sd	2.305	%cv	10.14
Ba1	av	9.94	sd	7.568	%cv	76.11

08/02/95 16:28

wcal standard	rep	1	As1	em	1304.6	conc	10.0000
	rep	1	Se1	em	575.6	conc	10.0000
	rep	1	Mo1	em	28.4	conc	10.0000
	rep	1	Cr1	em	1475.0	conc	2.0000
	rep	1	Sb1	em	1051.3	conc	10.0000
	rep	1	Zn1	em	8959.4	conc	5.0000
	rep	1	Cd1	em	6365.7	conc	5.0000
	rep	1	Pb1	em	1959.7	conc	10.0000
	rep	1	Co1	em	5360.0	conc	5.0000
	rep	1	Ni1	em	3658.7	conc	5.0000
	rep	1	Fe1	em	23500.8	conc	10.0000
	rep	1	B1	em	34.5	conc	10.0000
	rep	1	Mn1	em	95281.9	conc	5.0000
	rep	1	Mg1	em	262651.2	conc	50.0000
	rep	1	Be1	em	1617.7	conc	0.5000
	rep	1	Cu1	em	17366.6	conc	2.5000
	rep	1	Ag1	em	5304.0	conc	2.5000
	rep	1	Ca1	em	106355.1	conc	50.0000
	rep	1	Al1	em	15017.4	conc	20.0000
	rep	1	Ba1	em	199873.4	conc	20.0000
	rep	2	As1	em	1389.7	conc	10.0000
	rep	2	Se1	em	1408.9	conc	10.0000
	rep	2	Mo1	em	8.8	conc	10.0000
	rep	2	Cr1	em	1507.6	conc	2.0000
	rep	2	Sb1	em	1088.3	conc	10.0000
	rep	2	Zn1	em	9317.3	conc	5.0000
	rep	2	Cd1	em	6390.5	conc	5.0000
	rep	2	Pb1	em	1963.8	conc	10.0000
	rep	2	Co1	em	5534.0	conc	5.0000
	rep	2	Ni1	em	3852.3	conc	5.0000
	rep	2	Fe1	em	23761.8	conc	10.0000
	rep	2	B1	em	38.8	conc	10.0000
	rep	2	Mn1	em	98387.4	conc	5.0000
	rep	2	Mg1	em	278414.6	conc	50.0000

```
08/02/95 16:34
     As1          av    1347.11                sd     60.183 %cv    4.47 conc 10.0000
     Se1          av     992.24                sd    589.189 %cv   59.38 conc 10.0000
     Mo1          av      18.62                sd     13.841 %cv   74.33 conc 10.0000
     Cr1          av    1491.32                sd     23.077 %cv    1.55 conc  2.0000
     Sb1          av    1069.77                sd     26.159 %cv    2.45 conc 10.0000
     Zn1          av    9138.35                sd    253.007 %cv    2.77 conc  5.0000
     Cd1          av    6378.10
08/02/95 16:39
wcal standard     rep   2  Be1          em      1675.6 conc 0.5000


08/02/95 17:13
blank             rep   1  As1          em        1.8
                  rep   1  Se1          em        2.7
                  rep   1  Mo1          em        2.3

                  rep   1  Cr1          em        2.5
                  rep   1  Sb1          em        1.7
                  rep   1  Zn1          em        0.1
                  rep   1  Cd1          em        2.6
                  rep   1  Pb1          em        1.8                    window edge
                  rep   1  Co1          em        1.8
                  rep   1  Ni1          em       -0.6                    window edge
                  rep   1  Fe1          em        1.2
                  rep   1  B1           em        2.0
                  rep   1  Mn1          em        2.8
                  rep   1  Mg1          em        0.1
                  rep   1  Be1          em        2.7
                  rep   1  Cu1          em        3.3
08/02/95 17:17
blank             rep   1  Ag1          em        1.5
08/02/95 17:26
Sample 001        rep   1  As1          em        0.9
                  rep   1  Se1          em        1.5
08/02/95 17:26
Sample 001        rep   1  Mo1          em        2.3

Interlock - RF overload



Interlock - RF safety RF not ready

Interlock - RF overload
08/02/95 18:04
Sample 004        rep   1  As1          em     1289.4
                  rep   1  Se1          em      362.4
                  rep   1  Mo1          em       16.6
                  rep   1  Cr1          em      891.6
08/02/95 18:05
Sample 004        rep   1  Sb1          em       54.6
08/02/95 18:07
Sample 001                 Fe1          em       -0.0                    window edge
08/02/95 18:13
Sample 003                 Fe1          em      116.9
                           Fe1          em    21291.9
Sample 003
08/02/95 18:14
     Fe1          av   10704.41                sd 14972.980 %cv 139.88
```

```
08/02/95 18:16
Sample 001                  Ca1          em      39218.4
08/02/95 18:19
blank            rep   1   As1          em         43.3
                 rep   1   Se1          em         11.7
                 rep   1   Mo1          em         27.2
                 rep   1   Cr1          em         11.5
                 rep   1   Sb1          em         12.6
                 rep   1   Zn1          em          6.0                 window edge
                 rep   1   Cd1          em          4.6
                 rep   1   Pb1          em          8.7
                 rep   1   Co1          em         15.5
                 rep   1   Ni1          em          8.7                 window edge
                 rep   1   Fe1          em          9.5
                 rep   1   B1           em         14.2
                 rep   1   Mn1          em          6.3                 window edge
                 rep   1   Mg1          em          5.8
                 rep   1   Be1          em          5.2
                 rep   1   Cu1          em         42.7
                 rep   1   Ag1          em          4.0                 window edge
                 rep   1   Ca1          em         48.3
                 rep   1   Al1          em          6.3                 window edge
                 rep   1   Ba1          em         12.4
                 rep   2   As1          em         24.9
                 rep   2   Se1          em        -54.1                 window edge
                 rep   2   Mo1          em         22.7
                 rep   2   Cr1          em          5.7                 window edge
                 rep   2   Sb1          em          3.3
                 rep   2   Zn1          em          7.5
                 rep   2   Cd1          em          2.0
                 rep   2   Pb1          em         19.3                 window edge
                 rep   2   Co1          em          9.0
                 rep   2   Ni1          em          7.5
                 rep   2   Fe1          em         23.0
                 rep   2   B1           em         10.6
                 rep   2   Mn1          em         24.6
                 rep   2   Mg1          em          4.5
                 rep   2   Be1          em          5.7

                 rep   2   Cu1          em         56.8
                 rep   2   Ag1          em         26.9
                 rep   2   Ca1          em         49.4
                 rep   2   Al1          em         22.6
                 rep   2   Ba1          em          5.3
blank
56.79
"Ba1"              0.00      0.000        8.8       5.02 0 0
    sd      1.864 %cv  56.80
    Pb1        av      13.97              sd      7.516 %cv  53.79
    Co1        av      12.25              sd      4.646 %cv  37.92
    Ni1        av       8.09              sd      0.846 %cv  10.45
    Fe1        av      16.27              sd      9.553 %cv  58.72
    B1         av      12.39              sd      2.503 %cv  20.21
    Mn1        av      15.44              sd     12.964 %cv  83.94
    Mg1 56.79
"Ba1"              0.00      0.000        8.8       5.02 0 0
56.79

08/02/95 18:33
wcal standard    rep   1   As1          em       1255.1 conc 10.0000
```

rep	1	Se1	em	229.8	conc	10.0000	window edge	
rep	1	Mo1	em	23.8	conc	10.0000		
rep	1	Cr1	em	1492.2	conc	2.0000		
rep	1	Sb1	em	1006.6	conc	10.0000		
rep	1	Zn1	em	9117.6	conc	5.0000		
rep	1	Cd1	em	6423.1	conc	5.0000		
rep	1	Pb1	em	1918.5	conc	10.0000		
rep	1	Co1	em	5391.2	conc	5.0000		
rep	1	Ni1	em	3654.9	conc	5.0000		
rep	1	Fe1	em	23880.8	conc	10.0000		
rep	1	B1	em	32.8	conc	10.0000		
rep	1	Mn1	em	91177.5	conc	5.0000	window edge	
rep	1	Mg1	em	266223.3	conc	50.0000		
rep	1	Be1	em	1591.1	conc	0.5000		
rep	1	Cu1	em	17453.0	conc	2.5000		
rep	1	Ag1	em	5409.1	conc	2.5000		
rep	1	Ca1	em	104955.5	conc	50.0000		
rep	1	Al1	em	14721.4	conc	20.0000		
rep	1	Ba1	em	189662.0	conc	20.0000		
rep	2	As1	em	1253.4	conc	10.0000		
rep	2	Se1	em	1366.6	conc	10.0000		
rep	2	Mo1	em	16.4	conc	10.0000		
rep	2	Cr1	em	1592.6	conc	2.0000		
rep	2	Sb1	em	1062.8	conc	10.0000		
rep	2	Zn1	em	9181.6	conc	5.0000		
rep	2	Cd1	em	6509.3	conc	5.0000		
rep	2	Pb1	em	2055.4	conc	10.0000		
rep	2	Co1	em	5521.6	conc	5.0000		
rep	2	Ni1	em	3956.8	conc	5.0000		
rep	2	Fe1	em	23838.9	conc	10.0000		
rep	2	B1	em	35.9	conc	10.0000		
rep	2	Mn1	em	101350.2	conc	5.0000		
rep	2	Mg1	em	295169.1	conc	50.0000		
rep	2	Be1	em	1739.2	conc	0.5000		
rep	2	Cu1	em	17269.3	conc	2.5000		
rep	2	Ag1	em	5796.9	conc	2.5000		
rep	2	Ca1	em	107685.5	conc	50.0000		
rep	2	Al1	em	15065.5	conc	20.0000		
rep	2	Ba1	em	198497.7	conc	20.0000		

wcal standard
08/02/95 18:39

As1	av	1254.27	sd	1.194	%cv	0.10	conc	10.0000
Se1	av	798.20	sd	803.894	%cv	100.71	conc	10.0000
Mo1	av	20.07	sd	5.206	%cv	25.93	conc	10.0000
Cr1	av	1542.38	sd	70.952	%cv	4.60	conc	2.0000
Sb1	av	1034.71	sd	39.777	%cv	3.84	conc	10.0000
Zn1	av	9149.58	sd	45.249	%cv	0.49	conc	5.0000
Cd1	av	6466.18	sd	60.945	%cv	0.94	conc	5.0000
Pb1	av	1986.94	sd	96.848	%cv	4.87	conc	10.0000
Co1	av	5456.41	sd	92.190	%cv	1.69	conc	5.0000
Ni1	av	3805.86	sd	213.522	%cv	5.61	conc	5.0000
Fe1	av	23859.87	sd	29.582	%cv	0.12	conc	10.0000
B1	av	34.39	sd	2.198	%cv	6.39	conc	10.0000
Mn1	av	96263.87	sd	7193.187	%cv	7.47	conc	5.0000
Mg1	av	280696.19	sd	20467.801	%cv	7.29	conc	50.0000
Be1	av	1665.15	sd	104.746	%cv	6.29	conc	0.5000
Cu1	av	17361.15	sd	129.867	%cv	0.75	conc	2.5000
Ag1	av	5603.00	sd	274.278	%cv	4.90	conc	2.5000
Ca1	av	106320.53	sd	1930.390	%cv	1.82	conc	50.0000
Al1	av	14893.48	sd	243.331	%cv	1.63	conc	20.0000
Ba1	av	194070.86	sd	6247.705	%cv	3.22	conc	20.0000

```
    Ba1          av 194079.86                 sd  6247.785 %cv    3.22 conc 20.0000

08/02/95 18:47
standard        rep   1  As1          em       1360.7 conc 10.0000
                rep   1  Se1          em       1306.3 conc 10.0000
                rep   1  Mo1          em          3.7 conc 10.0000  window edge
                rep   1  Cr1          em       1595.1 conc 2.0000
                rep   1  Sb1          em       1064.2 conc 10.0000
                rep   1  Zn1          em       9223.9 conc 5.0000
                rep   1  Cd1          em       6919.7 conc 5.0000
                rep   1  Pb1          em       2224.0 conc 10.0000
                rep   1  Co1          em       5727.6 conc 5.0000
                rep   1  Ni1          em       3934.0 conc 5.0000
                rep   1  Fe1          em      24866.5 conc 10.0000
                rep   1  B1           em         33.5 conc 10.0000
                rep   1  Mn1          em     101313.9 conc 5.0000
                rep   1  Mg1          em     276682.0 conc 50.0000
                rep   1  Be1          em       1621.2 conc 0.5000
                rep   1  Cu1          em      17819.5 conc 2.5000
                rep   1  Ag1          em       5641.8 conc 2.5000
                rep   1  Ca1          em     107239.1 conc 50.0000
                rep   1  Al1          em      15038.8 conc 20.0000
                rep   1  Ba1          em     192115.4 conc 20.0000
                rep   2  As1          em       1417.5 conc 10.0000
                rep   2  Se1          em       1360.6 conc 10.0000
                rep   2  Mo1          em         38.1 conc 10.0000
                rep   2  Cr1          em       1643.7 conc 2.0000
                rep   2  Sb1          em       1115.7 conc 10.0000
                rep   2  Zn1          em       9898.8 conc 5.0000
                rep   2  Cd1          em       7175.7 conc 5.0000
                rep   2  Pb1          em       2162.7 conc 10.0000
                rep   2  Co1          em       5784.9 conc 5.0000
                rep   2  Ni1          em       3967.1 conc 5.0000
                rep   2  Fe1          em      24922.3 conc 10.0000
                rep   2  B1           em         37.6 conc 10.0000
                rep   2  Mn1          em     101368.2 conc 5.0000
                rep   2  Mg1          em     292515.8 conc 50.0000
                rep   2  Be1          em       1717.9 conc 0.5000
                rep   2  Cu1          em      17568.3 conc 2.5000

                rep   2  Ag1          em       5489.6 conc 2.5000
                rep   2  Ca1          em     105047.8 conc 50.0000
                rep   2  Al1          em      14551.9 conc 20.0000
                rep   2  Ba1          em     194522.8 conc 20.0000
standard
 0.88 conc 20.0000
"Ba1"        193319.09 1702.3264  193319.1   1702.33 1 0
 0.88 conc 20.0000
"Ba1"        193319.09 1702.3264  193319.1   1702.33 1 0
      av 284598.90                 sd 11196.173 %cv   3.93 conc 50.0000
    Be1          av 1669.5311                 sd  68.38487 %cv   4.10 conc  0.5000
    Cu1          av 17693.888                 sd 177.58876 %cv   1.00 conc  2.5000
    Ag1          av 5565.6992                 sd 107.66909 %cv   1.93 conc  2.5000
    Ca1          av 106143.48                 sd 1549.4753 %cv   1.46 conc 50.0000
    Al1          av 14795.371                 sd 344.32715 %cv   2.33 conc 20.0000
    Ba1          av 193319.09                 sd 1702.3264 %cv   0.88 conc 20.0000

08/02/95 19:01
wcal standard   rep   1  Mo1          em         66.3 conc 10.0000  window edge
                rep   1  B1           em       9876.2 conc 10.0000
                rep   2  Mo1          em       8035.7 conc 10.0000
```

```
                rep   2   B1          em      10760.5 conc 10.0000
wcal standard
08/02/95 19:02
    Mo1         av 4051.0242                sd 5635.2133 %cv 139.11 conc 10.0000
    B1          av 10318.376                sd 625.29572 %cv   6.06 conc 10.0000

08/02/95 19:04
standard        rep   1   Mo1         em       7902.6 conc 10.0000
                rep   1   B1          em      10047.6 conc 10.0000
                rep   2   Mo1         em       8015.3 conc 10.0000
                rep   2   B1          em      10145.3 conc 10.0000
standard
08/02/95 19:05
    Mo1         av 7958.9565                sd  79.73526 %cv   1.00 conc 10.0000
    B1          av 10096.461                sd  69.09275 %cv   0.68 conc 10.0000

08/02/95 19:08
stnd1           rep   1   As1         conc     9.9386 mg/l
                rep   1   Se1         conc     9.3642 mg/l
                rep   1   Mo1         conc     0.0198 mg/l
                rep   1   Cr1         conc     1.9944 mg/l
                rep   1   Sb1         conc    10.0376 mg/l
                rep   1   Zn1         conc     4.7888 mg/l
                rep   1   Cd1         conc     4.8914 mg/l
                rep   1   Pb1         conc     9.2601 mg/l
                rep   1   Co1         conc     4.9266 mg/l
                rep   1   Ni1         conc     4.9219 mg/l
                rep   1   Fe1         conc    10.2585 mg/l
                rep   1   B1          conc     0.0906 mg/l
                rep   1   Mn1         conc     4.8077 mg/l
                rep   1   Mg1         conc    50.1419 mg/l
                rep   1   Be1         conc     0.5080 mg/l
                rep   1   Cu1         conc     2.3887 mg/l
                rep   1   Ag1         conc     2.4195 mg/l
                rep   1   Ca1         conc    50.5228 mg/l
                rep   1   Al1         conc    20.4543 mg/l
                rep   1   Ba1         conc    20.5424 mg/l
                rep   2   As1         conc    10.0815 mg/l
                rep   2   Se1         conc     9.1817 mg/l


                rep   2   Mo1         conc    -0.0261 mg/l
                rep   2   Cr1         conc     1.9685 mg/l
                rep   2   Sb1         conc    10.1791 mg/l
                rep   2   Zn1         conc     4.9994 mg/l
                rep   2   Cd1         conc     4.9709 mg/l
                rep   2   Pb1         conc     9.1877 mg/l
                rep   2   Co1         conc     5.0358 mg/l
                rep   2   Ni1         conc     4.9611 mg/l
                rep   2   Fe1         conc     9.9331 mg/l
                rep   2   B1          conc     0.0622 mg/l
                rep   2   Mn1         conc     4.6814 mg/l
                rep   2   Mg1         conc    49.1932 mg/l
                rep   2   Be1         conc     0.4638 mg/l
                rep   2   Cu1         conc     2.4042 mg/l
                rep   2   Ag1         conc     2.3382 mg/l
                rep   2   Ca1         conc    48.9769 mg/l
                rep   2   Al1         conc    20.4502 mg/l
                rep   2   Ba1         conc    20.3420 mg/l
stnd1
 0.69
 0.69
 0.69
```

0.69
0.69

08/02/95 19:21

stnd2	rep	1	Mo1	conc	9.2974	mg/l
	rep	1	B1	conc	10.0495	mg/l
	rep	2	Mo1	conc	9.7992	mg/l
	rep	2	B1	conc	9.8607	mg/l

stnd2
08/02/95 19:22

Mo1	av	9.5483	mg/l	sd	0.35480	%cv	3.72
B1	av	9.9551	mg/l	sd	0.13354	%cv	1.34

08/02/95 19:24

icv	rep	1	As1	conc	2.8877	mg/l
	rep	1	Se1	conc	2.8996	mg/l
	rep	1	Mo1	conc	3.0177	mg/l
	rep	1	Cr1	conc	2.9794	mg/l
	rep	1	Sb1	conc	2.9075	mg/l
	rep	1	Zn1	conc	3.0013	mg/l
	rep	1	Cd1	conc	2.9496	mg/l
	rep	1	Pb1	conc	2.7095	mg/l
	rep	1	Co1	conc	2.9831	mg/l
	rep	1	Ni1	conc	2.9948	mg/l
	rep	1	Fe1	conc	3.0447	mg/l
	rep	1	B1	conc	3.1414	mg/l
	rep	1	Mn1	conc	3.0599	mg/l
	rep	1	Be1	conc	2.9042	mg/l
	rep	1	Cu1	conc	3.0940	mg/l
	rep	1	Ag1	conc	2.8554	mg/l
	rep	1	Al1	conc	2.9193	mg/l
	rep	1	Ba1	conc	2.9550	mg/l
	rep	2	As1	conc	2.7940	mg/l
	rep	2	Se1	conc	3.0480	mg/l
	rep	2	Mo1	conc	3.0950	mg/l
	rep	2	Cr1	conc	3.0355	mg/l
	rep	2	Sb1	conc	3.0397	mg/l
	rep	2	Zn1	conc	2.8387	mg/l
	rep	2	Cd1	conc	2.9638	mg/l
	rep	2	Pb1	conc	2.7987	mg/l
	rep	2	Co1	conc	2.9703	mg/l
	rep	2	Ni1	conc	3.1064	mg/l
	rep	2	Fe1	conc	2.9940	mg/l
	rep	2	B1	conc	3.0671	mg/l
	rep	2	Mn1	conc	3.0613	mg/l
	rep	2	Be1	conc	2.9270	mg/l
	rep	2	Cu1	conc	3.0364	mg/l
	rep	2	Ag1	conc	2.9611	mg/l
	rep	2	Al1	conc	3.0143	mg/l
	rep	2	Ba1	conc	2.8170	mg/l

icv N=3
08/02/95 19:30

As1	av	2.8408	mg/l	sd	0.06624	%cv	2.33
Se1	av	2.9738	mg/l	sd	0.10496	%cv	3.53
Mo1	av	3.0563	mg/l	sd	0.05464	%cv	1.79
Cr1	av	3.0074	mg/l	sd	0.03969	%cv	1.32
Sb1	av	2.9736	mg/l	sd	0.09347	%cv	3.14
Zn1	av	2.9200	mg/l	sd	0.11498	%cv	3.94
Cd1	av	2.9567	mg/l	sd	0.01000	%cv	0.34
Pb1	av	2.7541	mg/l	sd	0.06307	%cv	2.29

Ni1	av	3.0506 mg/l	sd	0.00902	%cv	0.30
Fe1	av	3.0194 mg/l	sd	0.07887	%cv	2.59
B1	av	3.1043 mg/l	sd	0.03581	%cv	1.19
Mn1	av	3.0606 mg/l	sd	0.05253	%cv	1.69
Be1 60	0.09762	27903.5	943.53	2.0		

08/02/95 19:37
icb

rep	1	As1	conc	-0.0638 mg/l	
rep	1	Se1	conc	0.3149 mg/l	
rep	1	Mo1	conc	-0.0008 mg/l	
rep	1	Cr1	conc	-0.0027 mg/l	
rep	1	Sb1	conc	0.0105 mg/l	
rep	1	Zn1	conc	0.0028 mg/l	
rep	1	Cd1	conc	0.0020 mg/l	
rep	1	Pb1	conc	0.0718 mg/l	
rep	1	Co1	conc	0.0070 mg/l	
rep	1	Ni1	conc	-0.0069 mg/l	
rep	1	Fe1	conc	-0.0050 mg/l	window edge
rep	1	B1	conc	0.0533 mg/l	
rep	1	Mn1	conc	0.0000 mg/l	window edge
rep	1	Be1	conc	0.0009 mg/l	
rep	1	Cu1	conc	-0.0011 mg/l	
rep	1	Ag1	conc	0.0068 mg/l	
rep	1	Al1	conc	0.0229 mg/l	
rep	1	Ba1	conc	0.0004 mg/l	
rep	2	As1	conc	0.0222 mg/l	
rep	2	Se1	conc	0.0856 mg/l	window edge
rep	2	Mo1	conc	-0.0386 mg/l	window edge
rep	2	Cr1	conc	0.0123 mg/l	
rep	2	Sb1	conc	0.1024 mg/l	
rep	2	Zn1	conc	-0.0004 mg/l	
rep	2	Cd1	conc	0.0032 mg/l	
rep	2	Pb1	conc	0.0118 mg/l	
rep	2	Co1	conc	-0.0020 mg/l	
rep	2	Ni1	conc	0.0203 mg/l	
rep	2	Fe1	conc	0.0019 mg/l	
rep	2	B1	conc	0.0400 mg/l	
rep	2	Mn1	conc	-0.0002 mg/l	
rep	2	Be1	conc	0.0007 mg/l	
rep	2	Cu1	conc	0.0045 mg/l	
rep	2	Ag1	conc	0.0014 mg/l	
rep	2	Al1	conc	0.0386 mg/l	
rep	2	Ba1	conc	-0.0010 mg/l	window edge

icb
08/02/95 19:42

As1	av	-0.0208 mg/l	sd	0.06086 %cv	292.68
Se1	av	0.2002 mg/l	sd	0.16213 %cv	80.98
Mo1	av	-0.0197 mg/l	sd	0.02677 %cv	135.76
Cr1	av	0.0048 mg/l	sd	0.01064 %cv	222.44
Sb1	av	0.0564 mg/l	sd	0.06497 %cv	115.10
Zn1	av	0.0012 mg/l	sd	0.00225 %cv	193.20
Cd1	av	0.0026 mg/l	sd	0.00081 %cv	31.40
Pb1	av	0.0418 mg/l	sd	0.04242 %cv	101.44
Co1	av	0.0025 mg/l	sd	0.00636 %cv	258.25
Ni1	av	0.0067 mg/l	sd	0.01924 %cv	286.77
Fe1	av	-0.0016 mg/l	sd	0.00493 %cv	316.30
B1	av	0.0466 mg/l	sd	0.00936 %cv	20.07
Mn1	av	-0.0001 mg/l	sd	0.00013 %cv	167.24
Be1	av	0.0008 mg/l	sd	0.00011 %cv	13.85
Cu1	av	0.0017 mg/l	sd	[illegible]	

Cu1	av	0.0017	mg/l	sd	0.00390	%cv	228.54
Ag1	av	0.0041	mg/l	sd	0.00380	%cv	92.89
Al1	av	0.0307	mg/l	sd	0.01107	%cv	36.00
Ba1	av	-0.0003	mg/l	sd	0.00099	%cv	353.88

08/02/95 19:50

ics-a	rep	1	Fe1	conc	201.2217	mg/l
	rep	1	Mg1	conc	465.8511	mg/l
	rep	1	Ca1	conc	522.1750	mg/l
	rep	1	Al1	conc	482.6413	mg/l
	rep	2	Fe1	conc	196.7005	mg/l
	rep	2	Mg1	conc	482.9264	mg/l
	rep	2	Ca1	conc	496.3612	mg/l
	rep	2	Al1	conc	504.7996	mg/l

ics-a

data 10	10	"ics-a"	4				
"Fe1" TV= 200		198.9611	3.19697	19815.4	318.14	2	0
"Mg1"	500	474.3888	12.07403	108011.6	2748.95	2	0
"Ca1"	↓	509.2681	18.25308	43273.3	1549.24	2	0
"Al1"		493.7205	15.66831	14609.7	463.18	2	0

493.7205 mg/l sd 15.66831 %cv 3.17

08/02/95 19:54

ics-ab	rep	1	As1 TV= 5	conc	4.5681	mg/l	
	rep	1	Se1 2.5	conc	2.4345	mg/l	
	rep	1	Mo1 —	conc	-0.1411	mg/l	window edge
	rep	1	Cr1 1.5	conc	1.2970	mg/l	
	rep	1	Sb1 —	conc	-0.1074	mg/l	
	rep	1	Zn1 1.5	conc	1.3259	mg/l	
	rep	1	Cd1 1.5	conc	1.2785	mg/l	
	rep	1	Pb1 5	conc	4.7918	mg/l	
	rep	1	Co1 1.5	conc	1.2650	mg/l	
	rep	1	Ni1 1.5	conc	1.3179	mg/l	
	rep	1	Fe1 —	conc	180.9764	mg/l	
	rep	1	B1 —	conc	0.3634	mg/l	
	rep	1	Mn1 1	conc	0.9006	mg/l	
	rep	1	Be1 0.5	conc	0.4377	mg/l	
	rep	1	Cu1 1.5	conc	1.3454	mg/l	
	rep	1	Ag1 1.5	conc	1.3974	mg/l	
	rep	1	Al1 —	conc	500.6530	mg/l	
	rep	1	Ba1 1.5	conc	1.3854	mg/l	
	rep	2	As1	conc	4.5882	mg/l	
	rep	2	Se1	conc	2.3885	mg/l	
	rep	2	Mo1	conc	-0.0805	mg/l	
	rep	2	Cr1	conc	1.3447	mg/l	
	rep	2	Sb1	conc	0.0176	mg/l	
	rep	2	Zn1	conc	1.3293	mg/l	
	rep	2	Cd1	conc	1.3439	mg/l	
	rep	2	Pb1	conc	4.5560	mg/l	
	rep	2	Co1	conc	1.3059	mg/l	
	rep	2	Ni1	conc	1.3385	mg/l	
	rep	2	Fe1	conc	183.0724	mg/l	
	rep	2	B1	conc	0.3625	mg/l	
	rep	2	Mn1	conc	0.8650	mg/l	
	rep	2	Be1	conc	0.4305	mg/l	
	rep	2	Cu1	conc	1.3894	mg/l	
	rep	2	Ag1	conc	1.4194	mg/l	
	rep	2	Al1	conc	482.8688	mg/l	
	rep	2	Ba1	conc	1.3207	mg/l	

ics-ab

av 0.4341 mg/l sd 0.00505 %cv 1.16

Cu1	av	1.3674 mg/l	sd	0.03111 %cv	2.28	
Ag1	av	1.4084 mg/l	sd	0.01556 %cv	1.10	
Al1	av	491.7609 mg/l	sd	12.57533 %cv	2.56	
Ba1	av	1.3530 mg/l	sd	0.04574 %cv	3.38	
sd	0.04624 %cv	3.53				
Pb1	av	4.6739 mg/l	sd	0.16678 %cv	3.57	
Co1	av	1.2854 mg/l	sd	0.02886 %cv	2.24	
Ni1	av	1.3282 mg/l	sd	0.01458 %cv	1.10	
Fe1	av	182.0244 mg/l	sd	1.48211 %cv	0.81	
B1	av	0.3630 mg/l	sd	0.00061 %cv	0.17	
Mn1	av	0.8828 mg/l	sd	0.02516 %cv	2.85	
Be1	av	0.4341 mg/l	sd	0.00505 %cv	1.16	
Cu1	av	1.3674 mg/l	sd	0.03111 %cv	2.28	
Ag1	av	1.4084 mg/l	sd	0.01556 %cv	1.10	
Al1	av	491.7609 mg/l	sd	12.57533 %cv	2.56	
Ba1	av	1.3530 mg/l	sd	0.04574 %cv	3.38	

08/02/95 20:07

di rinse	rep	1	As1	conc	-0.1093 mg/l	
	rep	1	Se1	conc	0.3080 mg/l	
	rep	1	Mo1	conc	-0.0140 mg/l	
	rep	1	Cr1	conc	0.0047 mg/l	
	rep	1	Sb1	conc	0.0502 mg/l	
	rep	1	Zn1	conc	-0.0002 mg/l	
	rep	1	Cd1	conc	0.0032 mg/l	
	rep	1	Pb1	conc	-0.0050 mg/l	
	rep	1	Co1	conc	-0.0027 mg/l	
	rep	1	Ni1	conc	0.0045 mg/l	
	rep	1	Fe1	conc	0.0192 mg/l	
	rep	1	B1	conc	0.0202 mg/l	
	rep	1	Mn1	conc	0.0003 mg/l	
	rep	1	Be1	conc	0.0007 mg/l	
	rep	1	Cu1	conc	0.0035 mg/l	
	rep	1	Ag1	conc	0.0024 mg/l	
	rep	1	Al1	conc	0.0350 mg/l	
	rep	1	Ba1	conc	0.0009 mg/l	
	rep	2	As1	conc	-0.0285 mg/l	
	rep	2	Se1	conc	0.3605 mg/l	
	rep	2	Mo1	conc	0.0038 mg/l	
	rep	2	Cr1	conc	0.0083 mg/l	window edge
	rep	2	Sb1	conc	0.0734 mg/l	
	rep	2	Zn1	conc	-0.0007 mg/l	
	rep	2	Cd1	conc	0.0063 mg/l	
	rep	2	Pb1	conc	0.0173 mg/l	
	rep	2	Co1	conc	-0.0015 mg/l	window edge
	rep	2	Ni1	conc	-0.0007 mg/l	
	rep	2	Fe1	conc	0.0033 mg/l	
	rep	2	B1	conc	0.0146 mg/l	
	rep	2	Mn1	conc	0.0003 mg/l	
	rep	2	Be1	conc	0.0008 mg/l	
	rep	2	Cu1	conc	0.0026 mg/l	
	rep	2	Ag1	conc	0.0045 mg/l	
	rep	2	Al1	conc	0.0464 mg/l	
	rep	2	Ba1	conc	0.0017 mg/l	

di rinse

13	0.00055	21.6	5.32	2	0
13	0.00055	21.6	5.32	2	0

av 0.0008 mg/l sd 0.00003 %cv 3.93

Cu1	av	0.0030 mg/l	sd	0.00064 %cv	20.88	
Ag1	av	0.0034 mg/l	sd	0.00154 %cv	44.61	

Ag1	av	0.0034	mg/l	sd	0.00154	%cv	44.61
Al1	av	0.0407	mg/l	sd	0.00808	%cv	19.86
Ba1	av	0.0013	mg/l	sd	0.00055	%cv	41.64

08/02/95 20:19

MB F-549	rep	1	As1	conc	-0.2097 mg/l	window edge
	rep	1	Se1	conc	0.2830 mg/l	
	rep	1	Mo1	conc	-0.0104 mg/l	
	rep	1	Cr1	conc	0.0060 mg/l	
	rep	1	Sb1	conc	0.0400 mg/l	
	rep	1	Zn1	conc	0.0019 mg/l	
	rep	1	Cd1	conc	0.0046 mg/l	
	rep	1	Pb1	conc	0.0764 mg/l	
	rep	1	Co1	conc	-0.0059 mg/l	
	rep	1	Ni1	conc	-0.0036 mg/l	
	rep	1	Fe1	conc	0.0044 mg/l	
	rep	1	B1	conc	0.0664 mg/l	
	rep	1	Mn1	conc	0.0001 mg/l	
	rep	1	Be1	conc	0.0006 mg/l	
	rep	1	Cu1	conc	0.0054 mg/l	
	rep	1	Ag1	conc	0.0004 mg/l	
	rep	1	Al1	conc	0.0272 mg/l	
	rep	1	Ba1	conc	0.0001 mg/l	
	rep	2	As1	conc	-0.0316 mg/l	
	rep	2	Se1	conc	0.2741 mg/l	
	rep	2	Mo1	conc	0.0018 mg/l	
	rep	2	Cr1	conc	0.0184 mg/l	
	rep	2	Sb1	conc	0.0569 mg/l	
	rep	2	Zn1	conc	0.0004 mg/l	
	rep	2	Cd1	conc	-0.0029 mg/l	window edge
	rep	2	Pb1	conc	0.0524 mg/l	
	rep	2	Co1	conc	0.0008 mg/l	
	rep	2	Ni1	conc	0.0064 mg/l	
	rep	2	Fe1	conc	0.0044 mg/l	
	rep	2	B1	conc	0.0736 mg/l	
	rep	2	Mn1	conc	0.0003 mg/l	
	rep	2	Be1	conc	0.0007 mg/l	
	rep	2	Cu1	conc	0.0050 mg/l	
	rep	2	Ag1	conc	0.0068 mg/l	
	rep	2	Al1	conc	0.0125 mg/l	
	rep	2	Ba1	conc	0.0002 mg/l	

MB F-549
08/02/95 20:24

As1	av	-0.1206	mg/l	sd	0.12595	%cv 104.40
Se1	av	0.2785	mg/l	sd	0.00628	%cv 2.25
Mo1	av	-0.0043	mg/l	sd	0.00863	%cv 201.06
Cr1	av	0.0122	mg/l	sd	0.00879	%cv 72.14
Sb1	av	0.0484	mg/l	sd	0.01197	%cv 24.71
Zn1	av	0.0012	mg/l	sd	0.00106	%cv 91.55
Cd1	av	0.0009	mg/l	sd	0.00527	%cv 611.66
Pb1	av	0.0644	mg/l	sd	0.01695	%cv 26.32
Co1	av	-0.0026	mg/l	sd	0.00474	%cv 182.97
Ni1	av	0.0014	mg/l	sd	0.00706	%cv 495.61
Fe1	av	0.0044	mg/l	sd	0.00003	%cv 0.59
B1	av	0.0700	mg/l	sd	0.00503	%cv 7.19
Mn1	av	0.0002	mg/l	sd	0.00008	%cv 39.75
Be1	av	0.0006	mg/l	sd	0.00002	%cv 3.11
Cu1	av	0.0052	mg/l	sd	0.00027	%cv 5.12
Ag1	av	0.0036	mg/l	sd	0.00454	%cv 126.70
Al1	av	0.0199	mg/l	sd	0.01041	%cv 52.44

Ba1 av 0.0001 mg/l sd 0.00013 %cv 87.11

08/02/95 20:32

LCS	rep	1	As1	conc	0.7367 mg/l
	rep	1	Se1	conc	1.2571 mg/l
	rep	1	Mo1	conc	0.8698 mg/l
	rep	1	Cr1	conc	0.9011 mg/l
	rep	1	Sb1	conc	0.9661 mg/l
	rep	1	Zn1	conc	0.8726 mg/l
	rep	1	Cd1	conc	0.9041 mg/l
	rep	1	Pb1	conc	0.8218 mg/l
	rep	1	Co1	conc	0.8692 mg/l
	rep	1	Ni1	conc	0.8943 mg/l
	rep	1	Fe1	conc	0.8920 mg/l
	rep	1	B1 TV=10	conc	10.4687 mg/l
	rep	1	Mn1	conc	0.9141 mg/l
	rep	1	Be1	conc	0.9089 mg/l
	rep	1	Cu1	conc	0.9443 mg/l
	rep	1	Ag1	conc	0.8970 mg/l
	rep	1	Al1	conc	1.0189 mg/l
	rep	1	Ba1	conc	0.9107 mg/l
	rep	2	As1	conc	0.7244 mg/l
	rep	2	Se1	conc	0.9748 mg/l
	rep	2	Mo1	conc	0.8996 mg/l
	rep	2	Cr1	conc	0.9538 mg/l
	rep	2	Sb1	conc	0.8741 mg/l
	rep	2	Zn1	conc	0.9114 mg/l
	rep	2	Cd1	conc	0.9292 mg/l
	rep	2	Pb1	conc	0.8665 mg/l
	rep	2	Co1	conc	0.9427 mg/l
	rep	2	Ni1	conc	0.9677 mg/l
	rep	2	Fe1	conc	0.9116 mg/l
	rep	2	B1	conc	10.5752 mg/l
	rep	2	Mn1	conc	0.9349 mg/l
	rep	2	Be1	conc	0.9385 mg/l
	rep	2	Cu1	conc	0.9352 mg/l
	rep	2	Ag1	conc	0.9599 mg/l
	rep	2	Al1	conc	1.0460 mg/l
	rep	2	Ba1	conc	0.9767 mg/l

LCS TV=1

av 0.9237 mg/l sd 0.02090 %cv 2.26

Cu1	av	0.9398 mg/l	sd	0.00640 %cv	0.68
Ag1	av	0.9285 mg/l	sd	0.04451 %cv	4.79
Al1	av	1.0324 mg/l	sd	0.01920 %cv	1.86
Ba1	av	0.9437 mg/l	sd	0.04662 %cv	4.94

"Ag1"	0.9285	0.04451	2076.7	98.82	2 0
"Al1"	1.0324	0.01920	777.5	14.19	2 0
"Ba1"	0.94	av	0.9237 mg/l	sd	0.02090 %cv 2.26

Cu1	av	0.9398 mg/l	sd	0.00640 %cv	0.68
Ag1	av	0.9285 mg/l	sd	0.04451 %cv	4.79
Al1	av	1.0324 mg/l	sd	0.01920 %cv	1.86
Ba1	av	0.9437 mg/l	sd	0.04662 %cv	4.94

"Ag1"	0.9285	0.04451	2076.7	98.82	2 0
"Al1"	1.0324	0.01920	777.5	14.19	2 0
"Ba1"	0.94	av	0.9237 mg/l	sd	0.02090 %cv 2.26

Cu1	av	0.9398 mg/l	sd	0.00640 %cv	0.68
Ag1	av	0.9285 mg/l	sd	0.04451 %cv	4.79

Ag1	av	0.9285	mg/l	sd	0.04451	%cv	4.79
Al1	av	1.0324	mg/l	sd	0.01920	%cv	1.86
Ba1	av	0.9437	mg/l	sd	0.04662	%cv	4.94

08/02/95 20:44

67098.2	rep	1	As1	conc	-0.0151	mg/l	
	rep	1	Se1	conc	0.2441	mg/l	
	rep	1	Cr1	conc	0.0235	mg/l	
	rep	1	Cd1	conc	-0.0015	mg/l	window edge
	rep	1	Pb1	conc	-0.0506	mg/l	window edge
	rep	1	Co1	conc	-0.0062	mg/l	
	rep	1	Ag1	conc	-0.0031	mg/l	
	rep	1	Ba1	conc	0.0512	mg/l	
	rep	2	As1	conc	-0.0439	mg/l	
	rep	2	Se1	conc	0.2460	mg/l	
	rep	2	Cr1	conc	0.0176	mg/l	
	rep	2	Cd1	conc	0.0003	mg/l	
	rep	2	Pb1	conc	0.0167	mg/l	
	rep	2	Co1	conc	-0.0039	mg/l	
	rep	2	Ag1	conc	0.0007	mg/l	
	rep	2	Ba1	conc	0.0497	mg/l	

67098.2
08/02/95 20:47

As1	av	-0.0295	mg/l	sd	0.02038	%cv 69.09
Se1	av	0.2450	mg/l	sd	0.00130	%cv 0.53
Cr1	av	0.0206	mg/l	sd	0.00416	%cv 20.23
Cd1	av	-0.0006	mg/l	sd	0.00126	%cv 208.81
Pb1	av	-0.0169	mg/l	sd	0.04759	%cv 281.00
Co1	av	-0.0051	mg/l	sd	0.00160	%cv 31.62
Ag1	av	-0.0013	mg/l	sd	0.00268	%cv 231.09
Ba1	av	0.0505	mg/l	sd	0.00105	%cv 2.09

08/02/95 20:51

67099.0	rep	1	As1	conc	-0.1945	mg/l	window edge
	rep	1	Se1	conc	0.2393	mg/l	
	rep	1	Cr1	conc	0.0157	mg/l	
	rep	1	Cd1	conc	0.0050	mg/l	
	rep	1	Pb1	conc	0.0795	mg/l	
	rep	1	Co1	conc	0.0033	mg/l	
	rep	1	Ag1	conc	0.0009	mg/l	
	rep	1	Ba1	conc	0.0822	mg/l	
	rep	2	As1	conc	-0.0831	mg/l	
	rep	2	Se1	conc	0.1569	mg/l	
	rep	2	Cr1	conc	0.0259	mg/l	
	rep	2	Cd1	conc	0.0028	mg/l	
	rep	2	Pb1	conc	0.0374	mg/l	
	rep	2	Co1	conc	-0.0020	mg/l	
	rep	2	Ag1	conc	-0.0015	mg/l	
	rep	2	Ba1	conc	0.0834	mg/l	

67099.0
08/02/95 20:53

As1	av	-0.1388	mg/l	sd	0.07873	%cv 56.73
Se1	av	0.1981	mg/l	sd	0.05828	%cv 29.42
Cr1	av	0.0208	mg/l	sd	0.00722	%cv 34.72
Cd1	av	0.0039	mg/l	sd	0.00153	%cv 38.98
Pb1	av	0.0585	mg/l	sd	0.02975	%cv 50.87
Co1	av	0.0007	mg/l	sd	0.00380	%cv 579.88
Ag1	av	-0.0003	mg/l	sd	0.00167	%cv 608.34
Ba1	av	0.0828	mg/l	sd	0.00087	%cv 1.06

08/02/95 20:57

67100.8	rep	1	As1	conc	-0.0675	mg/l	
	rep	1	Se1	conc	0.3276	mg/l	
	rep	1	Cr1	conc	0.0129	mg/l	
	rep	1	Cd1	conc	0.0024	mg/l	
	rep	1	Pb1	conc	0.0494	mg/l	
	rep	1	Co1	conc	-0.0014	mg/l	
	rep	1	Ag1	conc	0.0001	mg/l	
	rep	1	Ba1	conc	0.0658	mg/l	
	rep	2	As1	conc	-0.0207	mg/l	
	rep	2	Se1	conc	0.3285	mg/l	
	rep	2	Cr1	conc	0.0033	mg/l	
	rep	2	Cd1	conc	0.0016	mg/l	
	rep	2	Pb1	conc	0.1099	mg/l	
	rep	2	Co1	conc	-0.0014	mg/l	
	rep	2	Ag1	conc	0.0022	mg/l	
	rep	2	Ba1	conc	0.0684	mg/l	

67100.8

sd	0.00146	%cv	130.64				
Ba1	av	0.0671	mg/l	sd	0.00183	%cv	2.72
sd	0.00146	%cv	130.64				
Ba1	av	0.0671	mg/l	sd	0.00183	%cv	2.72

08/02/95 21:04

67101.6	rep	1	As1	conc	-0.0349	mg/l	
	rep	1	Se1	conc	0.1856	mg/l	
	rep	1	Cr1	conc	0.0122	mg/l	
	rep	1	Cd1	conc	-0.0019	mg/l	
	rep	1	Pb1	conc	0.0715	mg/l	
	rep	1	Co1	conc	-0.0072	mg/l	window edge
	rep	1	Ag1	conc	-0.0012	mg/l	
	rep	1	Ba1	conc	0.0680	mg/l	
	rep	2	As1	conc	-0.1025	mg/l	
	rep	2	Se1	conc	0.2083	mg/l	
	rep	2	Cr1	conc	0.0091	mg/l	
	rep	2	Cd1	conc	0.0025	mg/l	
	rep	2	Pb1	conc	0.0363	mg/l	
	rep	2	Co1	conc	0.0052	mg/l	
	rep	2	Ag1	conc	-0.0029	mg/l	
	rep	2	Ba1	conc	0.0703	mg/l	

67101.6

08/02/95 21:06

As1	av	-0.0687	mg/l	sd	0.04781	%cv	69.60
Se1	av	0.1969	mg/l	sd	0.01606	%cv	8.15
Cr1	av	0.0107	mg/l	sd	0.00218	%cv	20.46
Cd1	av	0.0003	mg/l	sd	0.00311	%cv	1183.6
Pb1	av	0.0539	mg/l	sd	0.02494	%cv	46.26
Co1	av	-0.0010	mg/l	sd	0.00876	%cv	846.08
Ag1	av	-0.0021	mg/l	sd	0.00122	%cv	58.92
Ba1	av	0.0692	mg/l	sd	0.00165	%cv	2.39

08/02/95 21:11

67102.4	rep	1	As1	conc	-0.0790	mg/l	
	rep	1	Se1	conc	-0.0136	mg/l	window edge
	rep	1	Cr1	conc	0.0189	mg/l	
	rep	1	Cd1	conc	0.0011	mg/l	
	rep	1	Pb1	conc	-0.0452	mg/l	
	rep	1	Co1	conc	-0.0029	mg/l	
	rep	1	Ag1	conc	-0.0074	mg/l	window edge
	rep	1	Ba1	conc	0.0583	mg/l	
	rep	2	As1	conc	-0.0317	mg/l	

	rep	2	As1	conc	-0.0817 mg/l
	rep	2	Se1	conc	0.3106 mg/l
	rep	2	Cr1	conc	0.0052 mg/l
	rep	2	Cd1	conc	0.0016 mg/l
	rep	2	Pb1	conc	0.0392 mg/l
	rep	2	Co1	conc	0.0021 mg/l
	rep	2	Ag1	conc	0.0036 mg/l
	rep	2	Ba1	conc	0.0579 mg/l

67102.4
08/02/95 21:13

As1	av	-0.0804 mg/l	sd	0.00187 %cv	2.33
Se1	av	0.1485 mg/l	sd	0.22929 %cv	154.40
Cr1	av	0.0120 mg/l	sd	0.00969 %cv	80.67
Cd1	av	0.0014 mg/l	sd	0.00035 %cv	25.71
Pb1	av	-0.0030 mg/l	sd	0.05968 %cv	2015.8
Co1	av	-0.0004 mg/l	sd	0.00350 %cv	916.80
Ag1	av	-0.0019 mg/l	sd	0.00778 %cv	411.92
Ba1	av	0.0581 mg/l	sd	0.00024 %cv	0.42

08/02/95 21:17

67103.2	rep	1	As1	conc	-0.0101 mg/l
	rep	1	Se1	conc	0.2137 mg/l
	rep	1	Mo1	conc	0.0035 mg/l
	rep	1	Cr1	conc	0.0068 mg/l
	rep	1	Sb1	conc	-0.0209 mg/l
	rep	1	Zn1	conc	0.0614 mg/l
	rep	1	Cd1	conc	0.0019 mg/l
	rep	1	Pb1	conc	0.0675 mg/l
	rep	1	Co1	conc	0.0037 mg/l
	rep	1	Ni1	conc	0.0014 mg/l
	rep	1	Fe1	conc	0.6269 mg/l
	rep	1	B1	conc	0.1468 mg/l
	rep	1	Mn1	conc	0.0259 mg/l
	rep	1	Be1	conc	0.0008 mg/l
	rep	1	Cu1	conc	0.0131 mg/l
	rep	1	Ag1	conc	-0.0019 mg/l
	rep	1	Al1	conc	0.5892 mg/l
	rep	1	Ba1	conc	0.0141 mg/l
	rep	2	As1	conc	-0.0538 mg/l
	rep	2	Se1	conc	0.2621 mg/l
	rep	2	Mo1	conc	0.0031 mg/l
	rep	2	Cr1	conc	0.0055 mg/l
	rep	2	Sb1	conc	0.0883 mg/l
	rep	2	Zn1	conc	0.0612 mg/l
	rep	2	Cd1	conc	0.0040 mg/l
	rep	2	Pb1	conc	0.0367 mg/l
	rep	2	Co1	conc	0.0002 mg/l
	rep	2	Ni1	conc	-0.0101 mg/l
	rep	2	Fe1	conc	0.6343 mg/l
	rep	2	B1	conc	0.1465 mg/l
	rep	2	Mn1	conc	0.0259 mg/l
	rep	2	Be1	conc	0.0006 mg/l
	rep	2	Cu1	conc	0.0076 mg/l
	rep	2	Ag1	conc	0.0003 mg/l
	rep	2	Al1	conc	0.5637 mg/l
	rep	2	Ba1	conc	0.0145 mg/l

67103.2
08/02/95 21:23

As1	av	-0.0319 mg/l	sd	0.03095 %cv	96.90
Se1	av	0.2379 mg/l	sd	0.03420 %cv	14.38

Mo1	av	0.0033 mg/l		sd	0.00029 %cv	8.78
Cr1	av	0.0062 mg/l		sd	0.00089 %cv	14.46
Sb1	av	0.0337 mg/l		sd	0.07717 %cv	229.04
Zn1	av	0.0613 mg/l		sd	0.00017 %cv	0.27
Cd1	av	0.0029 mg/l		sd	0.00146 %cv	50.07
Pb1	av	0.0521 mg/l		sd	0.02176 %cv	41.77
Co1	av	0.0020 mg/l		sd	0.00243 %cv	123.97
Ni1	av	-0.0044 mg/l		sd	0.00816 %cv	186.80
Fe1	av	0.6306 mg/l		sd	0.00523 %cv	0.83
B1	av	0.1466 mg/l		sd	0.00015 %cv	0.10
Mn1	av	0.0259 mg/l		sd	0.00004 %cv	0.14
Be1 43	0.00034	147.1	3.31 2 0			

08/02/95 21:30

67103.2MS	rep	1	As1 2	conc	1.9646	mg/l
	rep	1	Se1 1	conc	1.2139	mg/l
	rep	1	Mo1 2	conc	1.9822	mg/l
	rep	1	Cr1 0.6	conc	0.5855	mg/l
	rep	1	Sb1 2	conc	2.1267	mg/l
	rep	1	Zn1 0.6	conc	0.6341	mg/l
	rep	1	Cd1 0.6	conc	0.5923	mg/l
	rep	1	Pb1 2	conc	1.8617	mg/l
	rep	1	Co1 0.6	conc	0.5798	mg/l
	rep	1	Ni1 0.6	conc	0.5871	mg/l
	rep	1	Fe1 25	conc	24.8741	mg/l
	rep	1	B1 10	conc	9.7171	mg/l
	rep	1	Mn1 0.4	conc	0.4143	mg/l
	rep	1	Be1 0.2	conc	0.1924	mg/l
	rep	1	Cu1 0.6	conc	0.6338	mg/l
	rep	1	Ag1 0.6	conc	0.5807	mg/l
	rep	1	Al1 6	conc	6.7101	mg/l
	rep	1	Ba1 0.6	conc	0.5921	mg/l
	rep	2	As1	conc	1.9562	mg/l
	rep	2	Se1	conc	1.0954	mg/l
	rep	2	Mo1	conc	2.0014	mg/l
	rep	2	Cr1	conc	0.5748	mg/l
	rep	2	Sb1	conc	2.0619	mg/l
	rep	2	Zn1	conc	0.6452	mg/l
	rep	2	Cd1	conc	0.5756	mg/l
	rep	2	Pb1	conc	1.8608	mg/l
	rep	2	Co1	conc	0.5836	mg/l
	rep	2	Ni1	conc	0.5707	mg/l
	rep	2	Fe1	conc	25.7601	mg/l
	rep	2	B1	conc	10.4129	mg/l
	rep	2	Mn1	conc	0.4097	mg/l
	rep	2	Be1	conc	0.2000	mg/l
	rep	2	Cu1	conc	0.6178	mg/l
	rep	2	Ag1	conc	0.5968	mg/l
	rep	2	Al1	conc	6.6168	mg/l
	rep	2	Ba1	conc	0.6380	mg/l

67103.2MS

sd	0.01183 %cv	2.03				
Pb1	av	1.8612 mg/l		sd	0.00067 %cv	0.04
Co1	av	0.5817 mg/l		sd	0.00266 %cv	0.46
Ni1	av	0.5789 mg/l		sd	0.01154 %cv	1.99
Fe1	av	25.3171 mg/l		sd	0.62648 %cv	2.47
B1	av	10.0650 mg/l		sd	0.49202 %cv	4.89
Mn1	av	0.4120 mg/l		sd	0.00322 %cv	0.78
Be1	sd	0.01183 %cv	2.03			
Pb1	av	1.8612 mg/l		sd	0.00067 %cv	0.04
Co1	av	0.5817 mg/l		sd	0.00266 %cv	0.46

Co1	av	0.5817	mg/l	sd	0.00266	%cv 0.46
Ni1	av	0.5789	mg/l	sd	0.01154	%cv 1.99
Fe1	av	25.3171	mg/l	sd	0.62648	%cv 2.47
B1	av	10.0650	mg/l	sd	0.49202	%cv 4.89
Mn1	av	0.4120	mg/l	sd	0.00322	%cv 0.78
Be1	av	0.1962	mg/l	sd	0.00536	%cv 2.73
Cu1	av	0.6258	mg/l	sd	0.01131	%cv 1.81
Ag1	av	0.5888	mg/l	sd	0.01140	%cv 1.94
Al1	av	6.6634	mg/l	sd	0.06601	%cv 0.99
Ba1	av	0.6150	mg/l	sd	0.03245	%cv 5.28

08/02/95 21:43

7103.2MSD	rep	1	As1	conc	1.8681	mg/l
	rep	1	Se1	conc	1.0778	mg/l
	rep	1	Mo1	conc	1.9356	mg/l
	rep	1	Cr1	conc	0.5555	mg/l
	rep	1	Sb1	conc	1.9713	mg/l
	rep	1	Zn1	conc	0.6639	mg/l
	rep	1	Cd1	conc	0.5752	mg/l
	rep	1	Pb1	conc	1.8411	mg/l
	rep	1	Co1	conc	0.5796	mg/l
	rep	1	Ni1	conc	0.5805	mg/l
	rep	1	Fe1	conc	24.9099	mg/l
	rep	1	B1	conc	10.2594	mg/l
	rep	1	Mn1	conc	0.4096	mg/l
	rep	1	Be1	conc	0.2011	mg/l
	rep	1	Cu1	conc	0.6184	mg/l
	rep	1	Ag1	conc	0.5671	mg/l
	rep	1	Al1	conc	6.7895	mg/l
	rep	1	Ba1	conc	0.6139	mg/l
	rep	2	As1	conc	2.0749	mg/l
	rep	2	Se1	conc	1.2632	mg/l
	rep	2	Mo1	conc	2.0599	mg/l
	rep	2	Cr1	conc	0.5780	mg/l
	rep	2	Sb1	conc	1.9131	mg/l
	rep	2	Zn1	conc	0.6472	mg/l
	rep	2	Cd1	conc	0.5923	mg/l
	rep	2	Pb1	conc	1.8666	mg/l
	rep	2	Co1	conc	0.5974	mg/l
	rep	2	Ni1	conc	0.5991	mg/l
	rep	2	Fe1	conc	25.0886	mg/l
	rep	2	B1	conc	9.9186	mg/l
	rep	2	Mn1	conc	0.4203	mg/l
	rep	2	Be1	conc	0.2036	mg/l
	rep	2	Cu1	conc	0.5437	mg/l
	rep	2	Ag1	conc	0.6017	mg/l
	rep	2	Al1	conc	6.6264	mg/l
	rep	2	Ba1	conc	0.6286	mg/l

7103.2MSD

12	0.01040	6013.4	100.56	2	0	
12	0.01040	6013.4	100.56	2	0	
av	0.2023	mg/l	sd	0.00175	%cv	0.86
Cu1	av	0.5811	mg/l	sd	0.05281	%cv 9.09
Ag1	av	0.5844	mg/l	sd	0.02444	%cv 4.18
Al1	av	6.7079	mg/l	sd	0.11536	%cv 1.72
Ba1	av	0.6212	mg/l	sd	0.01040	%cv 1.67

08/02/95 21:56

ccv	rep	1	As1	conc	3.0917	mg/l
	rep	1	Se1	conc	2.9551	mg/l

	rep	1	Mo1	conc	3.1339	mg/l
	rep	1	Cr1	conc	3.0346	mg/l
	rep	1	Sb1	conc	2.9888	mg/l
	rep	1	Zn1	conc	2.9586	mg/l
	rep	1	Cd1	conc	3.0534	mg/l
	rep	1	Pb1	conc	2.9599	mg/l
	rep	1	Co1	conc	3.1544	mg/l
	rep	1	Ni1	conc	3.0129	mg/l
	rep	1	Fe1	conc	3.0389	mg/l
	rep	1	B1	conc	3.4102	mg/l
	rep	1	Mn1	conc	3.0945	mg/l
	rep	1	Be1	conc	3.0373	mg/l
	rep	1	Cu1	conc	2.9792	mg/l
	rep	1	Ag1	conc	2.8863	mg/l
	rep	1	Al1	conc	3.0904	mg/l
	rep	1	Ba1	conc	3.0317	mg/l
	rep	2	As1	conc	3.0013	mg/l
	rep	2	Se1	conc	3.1548	mg/l
	rep	2	Mo1	conc	3.0934	mg/l
	rep	2	Cr1	conc	3.2107	mg/l
	rep	2	Sb1	conc	3.1618	mg/l
	rep	2	Zn1	conc	3.1087	mg/l
	rep	2	Cd1	conc	3.0894	mg/l
	rep	2	Pb1	conc	2.7988	mg/l
	rep	2	Co1	conc	3.0091	mg/l
	rep	2	Ni1	conc	2.9979	mg/l
	rep	2	Fe1	conc	3.0804	mg/l
	rep	2	B1	conc	3.2418	mg/l
	rep	2	Mn1	conc	3.0831	mg/l
	rep	2	Be1	conc	3.0127	mg/l
	rep	2	Cu1	conc	3.0538	mg/l
	rep	2	Ag1	conc	2.8636	mg/l
	rep	2	Al1	conc	3.0245	mg/l
	rep	2	Ba1	conc	2.9754	mg/l

ccv
08/02/95 22:01

As1	av	3.0465	mg/l	sd	0.06391	%cv 2.10
Se1	av	3.0550	mg/l	sd	0.14123	%cv 4.62
Mo1	av	3.1136	mg/l	sd	0.02866	%cv 0.92
Cr1	av	3.1227	mg/l	sd	0.12458	%cv 3.99
Sb1	av	3.0753	mg/l	sd	0.12228	%cv 3.98
Zn1	av	3.0337	mg/l	sd	0.10613	%cv 3.50
Cd1	av	3.0714	mg/l	sd	0.02546	%cv 0.83
Pb1	av	2.8794	mg/l	sd	0.11393	%cv 3.96
Co1	av	3.0818	mg/l	sd	0.10274	%cv 3.33
Ni1	av	3.0054	mg/l	sd	0.01065	%cv 0.35
Fe1	av	3.0597	mg/l	sd	0.02939	%cv 0.96
B1	av	3.3260	mg/l	sd	0.11907	%cv 3.58
Mn1	av	3.0888	mg/l	sd	0.00802	%cv 0.26
Be1	av	3.0250	mg/l	sd	0.01741	%cv 0.58
Cu1	av	3.0165	mg/l	sd	0.05273	%cv 1.75
Ag1	av	2.8749	mg/l	sd	0.01605	%cv 0.56
Al1	av	3.0575	mg/l	sd	0.04660	%cv 1.52
Ba1	av	3.0036	mg/l	sd	0.03981	%cv 1.33

08/02/95 22:08

ccb	rep	1	As1	conc	-0.1048 mg/l
	rep	1	Se1	conc	0.3098 mg/l
	rep	1	Mo1	conc	-0.0223 mg/l
	rep	1	Cr1	conc	0.0183 mg/l
	rep	1	Sb1	conc	0.0414 mg/l

	rep	1	Sb1	conc	0.0414 mg/l	
	rep	1	Zn1	conc	0.0034 mg/l	
	rep	1	Cd1	conc	0.0013 mg/l	
	rep	1	Pb1	conc	-0.0705 mg/l	
	rep	1	Co1	conc	-0.0023 mg/l	
	rep	1	Ni1	conc	0.0073 mg/l	
	rep	1	Fe1	conc	-0.0025 mg/l	
	rep	1	B1	conc	0.1347 mg/l	
	rep	1	Mn1	conc	-0.0001 mg/l	
	rep	1	Be1	conc	0.0009 mg/l	
	rep	1	Cu1	conc	0.0043 mg/l	
	rep	1	Ag1	conc	0.0249 mg/l	
	rep	1	Al1	conc	0.0159 mg/l	
	rep	1	Ba1	conc	0.0006 mg/l	
	rep	2	As1	conc	-0.2955 mg/l	window edge
	rep	2	Se1	conc	0.2554 mg/l	
	rep	2	Mo1	conc	-0.0003 mg/l	
	rep	2	Cr1	conc	0.0043 mg/l	
	rep	2	Sb1	conc	0.0444 mg/l	
	rep	2	Zn1	conc	-0.0003 mg/l	
	rep	2	Cd1	conc	0.0008 mg/l	
	rep	2	Pb1	conc	0.0081 mg/l	
	rep	2	Co1	conc	-0.0001 mg/l	
	rep	2	Ni1	conc	-0.0084 mg/l	
	rep	2	Fe1	conc	-0.0000 mg/l	
	rep	2	B1	conc	0.1109 mg/l	
	rep	2	Mn1	conc	0.0011 mg/l	
	rep	2	Be1	conc	0.0009 mg/l	
	rep	2	Cu1	conc	0.0060 mg/l	
	rep	2	Ag1	conc	0.0284 mg/l	
	rep	2	Al1	conc	0.0221 mg/l	
	rep	2	Ba1	conc	0.0008 mg/l	

ccb

	av	0.0009 mg/l		sd	0.00001	%cv	0.76
Cu1	av	0.0051 mg/l		sd	0.00123	%cv	23.93
Ag1	av	0.0266 mg/l		sd	0.00246	%cv	9.24
Al1	av	0.0190 mg/l		sd	0.00436	%cv	22.93
Ba1	av	0.0007 mg/l		sd	0.00014	%cv	19.34

"Ag1"	0.0266	0.00246	74.5	5.46	2	0	
"Al1"	0.0190	0.00436	28.5	3.22	2	0	
"Ba1"	0.00	av	0.0009 mg/l	sd	0.00001	%cv	0.76

Cu1	av	0.0051 mg/l	sd	0.00123	%cv	23.93
Ag1	av	0.0266 mg/l	sd	0.00246	%cv	9.24
Al1	av	0.0190 mg/l	sd	0.00436	%cv	22.93
Ba1	av	0.0007 mg/l	sd	0.00014	%cv	19.34

"Ag1"	0.0266	0.00246	74.5	5.46	2	0	
"Al1"	0.0190	0.00436	28.5	3.22	2	0	
"Ba1"	0.00	av	0.0009 mg/l	sd	0.00001	%cv	0.76

Cu1	av	0.0051 mg/l	sd	0.00123	%cv	23.93
Ag1	av	0.0266 mg/l	sd	0.00246	%cv	9.24
Al1	av	0.0190 mg/l	sd	0.00436	%cv	22.93
Ba1	av	0.0007 mg/l	sd	0.00014	%cv	19.34

08/02/95 22:21

67104.0	rep	1	As1	conc	-0.3625 mg/l	window edge
	rep	1	Se1	conc	0.3520 mg/l	

```
                rep   1  Cr1          conc     0.0073 mg/l
                rep   1  Cd1          conc     0.0043 mg/l
                rep   1  Pb1          conc     0.0528 mg/l
                rep   1  Co1          conc    -0.0047 mg/l
                rep   1  Ag1          conc     0.1468 mg/l
                rep   1  Ba1          conc     0.0010 mg/l
                rep   2  As1          conc    -0.0064 mg/l
                rep   2  Se1          conc     0.3876 mg/l
                rep   2  Cr1          conc     0.0036 mg/l
                rep   2  Cd1          conc    -0.0003 mg/l
                rep   2  Pb1          conc     0.0629 mg/l
                rep   2  Co1          conc     0.0065 mg/l
                rep   2  Ag1          conc     0.0324 mg/l
                rep   2  Ba1          conc     0.0013 mg/l
67104.0
08/02/95 22:23
    As1         av   -0.1844 mg/l          sd    0.25181 %cv 136.55
    Se1         av    0.3698 mg/l          sd    0.02519 %cv   6.81
    Cr1         av    0.0055 mg/l          sd    0.00260 %cv  47.37
    Cd1         av    0.0020 mg/l          sd    0.00326 %cv 162.29
    Pb1         av    0.0578 mg/l          sd    0.00714 %cv  12.35
    Co1         av    0.0009 mg/l          sd    0.00797 %cv 892.48
    Ag1         av    0.0896 mg/l          sd    0.08089 %cv  90.26
    Ba1         av    0.0012 mg/l          sd    0.00020 %cv  17.13

08/02/95 22:28
65986.5         rep   1  Cr1          conc     0.2231 mg/l
                rep   1  Cd1          conc     0.0036 mg/l
                rep   1  Mn1          conc     0.1279 mg/l
                rep   2  Cr1          conc     0.2305 mg/l
                rep   2  Cd1          conc    -0.0085 mg/l          window edge
                rep   2  Mn1          conc     0.1261 mg/l
65986.5
08/02/95 22:29
    Cr1         av    0.2268 mg/l          sd    0.00519 %cv   2.29
    Cd1         av   -0.0024 mg/l          sd    0.00856 %cv 354.27
    Mn1         av    0.1270 mg/l          sd    0.00127 %cv   1.00

08/02/95 22:32



65987.3         rep   1  Cr1          conc     0.1523 mg/l
                rep   1  Cd1          conc     0.0070 mg/l
                rep   1  Mn1          conc     0.1031 mg/l
                rep   2  Cr1          conc     0.1582 mg/l
                rep   2  Cd1          conc     0.0068 mg/l
                rep   2  Mn1          conc     0.0995 mg/l
65987.3
08/02/95 22:32
    Cr1         av    0.1553 mg/l          sd    0.00418 %cv   2.69
    Cd1         av    0.0069 mg/l          sd    0.00014 %cv   2.05
    Mn1         av    0.1013 mg/l          sd    0.00260 %cv   2.57

08/02/95 22:35
65988.1         rep   1  Cr1          conc    -0.0109 mg/l          window edge
                rep   1  Cd1          conc     0.0029 mg/l
                rep   1  Mn1          conc     0.0207 mg/l
                rep   2  Cr1          conc     0.0069 mg/l
                rep   2  Cd1          conc     0.0052 mg/l
                rep   2  Mn1          conc     0.0199 mg/l
65989.1
08/02/95 22:36
    Cr1         av   -0.0020 mg/l          sd    0.01356 %cv 636.70
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Cr1	av	-0.0020	mg/l		sd	0.01256	%cv	636.70
Cd1	av	0.0041	mg/l		sd	0.00163	%cv	39.80
Mn1	av	0.0203	mg/l		sd	0.00060	%cv	2.96

08/02/95 22:39

65989.0	rep	1	Cr1	conc	0.0058 mg/l	
	rep	1	Cd1	conc	0.0018 mg/l	window edge
	rep	1	Mn1	conc	0.0003 mg/l	
	rep	2	Cr1	conc	0.0072 mg/l	
	rep	2	Cd1	conc	0.0002 mg/l	window edge
	rep	2	Mn1	conc	0.0009 mg/l	

65989.0

08/02/95 22:40

Cr1	av	0.0065	mg/l		sd	0.00102	%cv	15.63
Cd1	av	0.0010	mg/l		sd	0.00112	%cv	107.48
Mn1	av	0.0006	mg/l		sd	0.00041	%cv	71.85

08/02/95 22:43

66363.3	rep	1	As1	conc	0.0067 mg/l	
	rep	1	Se1	conc	0.3335 mg/l	
	rep	1	Mo1	conc	-0.0245 mg/l	window edge
	rep	1	Cr1	conc	0.0081 mg/l	
	rep	1	Sb1	conc	0.0521 mg/l	
	rep	1	Zn1	conc	0.0296 mg/l	
	rep	1	Cd1	conc	0.0028 mg/l	
	rep	1	Pb1	conc	0.0348 mg/l	
	rep	1	Co1	conc	-0.0067 mg/l	window edge
	rep	1	Ni1	conc	0.0080 mg/l	
	rep	1	Fe1	conc	0.0500 mg/l	
	rep	1	B1	conc	0.1637 mg/l	
	rep	1	Mn1	conc	0.0059 mg/l	
	rep	1	Be1	conc	0.0007 mg/l	
	rep	1	Cu1	conc	0.0099 mg/l	
	rep	1	Ag1	conc	0.0026 mg/l	
	rep	1	Al1	conc	0.7647 mg/l	
	rep	1	Ba1	conc	0.0090 mg/l	
	rep	2	As1	conc	-0.1017 mg/l	
	rep	2	Se1	conc	0.3639 mg/l	
	rep	2	Mo1	conc	-0.0024 mg/l	
	rep	2	Cr1	conc	0.0028 mg/l	
	rep	2	Sb1	conc	0.0213 mg/l	
	rep	2	Zn1	conc	0.0276 mg/l	
	rep	2	Cd1	conc	0.0052 mg/l	
	rep	2	Pb1	conc	0.0789 mg/l	
	rep	2	Co1	conc	-0.0028 mg/l	
	rep	2	Ni1	conc	0.0119 mg/l	
	rep	2	Fe1	conc	0.0522 mg/l	
	rep	2	B1	conc	0.1590 mg/l	
	rep	2	Mn1	conc	0.0067 mg/l	
	rep	2	Be1	conc	0.0006 mg/l	
	rep	2	Cu1	conc	0.0098 mg/l	
	rep	2	Ag1	conc	0.0045 mg/l	
	rep	2	Al1	conc	0.8176 mg/l	
	rep	2	Ba1	conc	0.0097 mg/l	

66363.3

08/02/95 22:49

As1	av	-0.0475	mg/l		sd	0.07664	%cv	161.38
Se1	av	0.3487	mg/l		sd	0.02147	%cv	6.16
Mo1	av	-0.0135	mg/l		sd	0.01560	%cv	115.86
Cr1	av	0.0055	mg/l		sd	0.00376	%cv	68.90

Zn1	av	0.0286	mg/l	sd	0.00138	%cv 4.83
Cd1	av	0.0040	mg/l	sd	0.00168	%cv 41.97
Pb1	av	0.0568	mg/l	sd	0.03117	%cv 54.85
Co1	av	-0.0048	mg/l	sd	0.00278	%cv 58.28
Ni1	av	0.0099	mg/l	sd	0.00275	%cv 27.68
Fe1	av	0.0511	mg/l	sd	0.00152	%cv 2.98
B1	av	0.1614	mg/l	sd	0.00332	%cv 2.06
Mn1	av	0.0063	mg/l	sd	0.00056	%cv 8.96

Be1 94 0.00050 99.4 4.79 2 0

08/02/95 22:56

66365.0	rep	1	As1	conc	-0.1217	mg/l
	rep	1	Se1	conc	0.2508	mg/l
	rep	1	Mo1	conc	-0.0075	mg/l
	rep	1	Cr1	conc	0.0005	mg/l
	rep	1	Sb1	conc	0.0326	mg/l
	rep	1	Zn1	conc	0.0084	mg/l
	rep	1	Cd1	conc	-0.0024	mg/l window edge
	rep	1	Pb1	conc	0.0861	mg/l
	rep	1	Co1	conc	-0.0039	mg/l
	rep	1	Ni1	conc	-0.0000	mg/l
	rep	1	Fe1	conc	0.0035	mg/l
	rep	1	B1	conc	0.0932	mg/l
	rep	1	Mn1	conc	0.0020	mg/l
	rep	1	Be1	conc	0.0008	mg/l
	rep	1	Cu1	conc	0.0043	mg/l
	rep	1	Ag1	conc	0.0011	mg/l
	rep	1	Al1	conc	0.0287	mg/l
	rep	1	Ba1	conc	0.0007	mg/l
	rep	2	As1	conc	-0.1211	mg/l
	rep	2	Se1	conc	0.1425	mg/l
	rep	2	Mo1	conc	0.0027	mg/l
	rep	2	Cr1	conc	0.0026	mg/l
	rep	2	Sb1	conc	-0.0336	mg/l window edge
	rep	2	Zn1	conc	0.0077	mg/l
	rep	2	Cd1	conc	0.0023	mg/l
	rep	2	Pb1	conc	0.0674	mg/l
	rep	2	Co1	conc	0.0005	mg/l
	rep	2	Ni1	conc	0.0079	mg/l
	rep	2	Fe1	conc	0.0006	mg/l
	rep	2	B1	conc	0.0875	mg/l
	rep	2	Mn1	conc	-0.0001	mg/l
	rep	2	Be1	conc	0.0007	mg/l
	rep	2	Cu1	conc	0.0017	mg/l
	rep	2	Ag1	conc	0.0114	mg/l
	rep	2	Al1	conc	-0.0053	mg/l
	rep	2	Ba1	conc	0.0006	mg/l

66365.0

06 0.00008 15.1 0.76 2 0

06 0.00008 15.1 0.76 2 0

av	0.0008	mg/l	sd	0.00010	%cv	13.88
Cu1	av	0.0030	mg/l	sd	0.00185	%cv 61.12
Ag1	av	0.0063	mg/l	sd	0.00726	%cv 115.65
Al1	av	0.0117	mg/l	sd	0.02404	%cv 205.96
Ba1	av	0.0006	mg/l	sd	0.00008	%cv 12.09

08/02/95 23:09

66368.4	rep	1	As1	conc	-0.0480	mg/l
	rep	1	Se1	conc	0.1679	mg/l
	rep	1	Mo1	conc	-0.0027	mg/l

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                rep   1  Mo1          conc    -0.0027 mg/l
                rep   1  Cr1          conc     0.0013 mg/l
                rep   1  Sb1          conc    -0.0065 mg/l
                rep   1  Zn1          conc     0.1939 mg/l
                rep   1  Cd1          conc     0.0048 mg/l
                rep   1  Pb1          conc     0.0719 mg/l
                rep   1  Co1          conc     0.0004 mg/l
                rep   1  Ni1          conc    -0.0175 mg/l          window edge
                rep   1  Fe1          conc     0.3610 mg/l
                rep   1  B1           conc     0.1445 mg/l
                rep   1  Mn1          conc     0.0170 mg/l
                rep   1  Be1          conc     0.0006 mg/l
                rep   1  Cu1          conc     0.0426 mg/l
                rep   1  Ag1          conc     0.0062 mg/l
                rep   1  Al1          conc     0.1264 mg/l
                rep   1  Ba1          conc     0.0398 mg/l
                rep   2  As1          conc    -0.1554 mg/l
                rep   2  Se1          conc     0.4674 mg/l
                rep   2  Mo1          conc    -0.0029 mg/l
                rep   2  Cr1          conc     0.0033 mg/l
                rep   2  Sb1          conc     0.0007 mg/l
                rep   2  Zn1          conc     0.2043 mg/l
                rep   2  Cd1          conc     0.0016 mg/l          window edge
                rep   2  Pb1          conc     0.0849 mg/l
                rep   2  Co1          conc     0.0045 mg/l
                rep   2  Ni1          conc    -0.0020 mg/l
                rep   2  Fe1          conc     0.3755 mg/l
                rep   2  B1           conc     0.1440 mg/l
                rep   2  Mn1          conc     0.0171 mg/l
                rep   2  Be1          conc     0.0007 mg/l
                rep   2  Cu1          conc     0.0441 mg/l
                rep   2  Ag1          conc    -0.0043 mg/l
                rep   2  Al1          conc     0.1098 mg/l
                rep   2  Ba1          conc     0.0386 mg/l
66368.4
 92   0.00083      387.4        8.04 2 0
92    0.00083      387.4        8.04 2 0
        av     0.0006 mg/l          sd    0.00011 %cv  17.31
    Cu1         av     0.0433 mg/l          sd    0.00108 %cv    2.49




    Ag1         av     0.0009 mg/l          sd    0.00745 %cv 802.06
    Al1         av     0.1181 mg/l          sd    0.01169 %cv   9.90
    Ba1         av     0.0392 mg/l          sd    0.00083 %cv   2.12

 08/02/95 23:22
67019.2         rep   1  As1          conc    -0.1103 mg/l
                rep   1  Se1          conc     0.2363 mg/l
                rep   1  Mo1          conc     0.3202 mg/l
                rep   1  Cr1          conc     0.0108 mg/l
                rep   1  Sb1          conc    -0.0499 mg/l
                rep   1  Zn1          conc     0.1878 mg/l
                rep   1  Cd1          conc    -0.0027 mg/l          window edge
                rep   1  Pb1          conc     0.0788 mg/l
                rep   1  Co1          conc     0.0072 mg/l
                rep   1  Ni1          conc     0.0568 mg/l
                rep   1  Fe1          conc     0.7480 mg/l
                rep   1  B1           conc     0.3714 mg/l
                rep   1  Mn1          conc     0.0300 mg/l
                rep   1  Be1          conc     0.0013 mg/l
                rep   1  Cu1          conc     0.2783 mg/l
                rep   1  Ag1          conc     0.0137 mg/l
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                rep   1   Al1        conc    0.2820 mg/l
                rep   1   Ba1        conc    0.0383 mg/l
                rep   2   As1        conc   -0.0766 mg/l
                rep   2   Se1        conc    0.2238 mg/l
                rep   2   Mo1        conc    0.3199 mg/l
                rep   2   Cr1        conc    0.0157 mg/l
                rep   2   Sb1        conc    0.0386 mg/l
                rep   2   Zn1        conc    0.1784 mg/l
                rep   2   Cd1        conc    0.0020 mg/l
                rep   2   Pb1        conc    0.0627 mg/l
                rep   2   Co1        conc    0.0024 mg/l
                rep   2   Ni1        conc    0.0398 mg/l
                rep   2   Fe1        conc    0.6554 mg/l
                rep   2   B1         conc    0.3853 mg/l
                rep   2   Mn1        conc    0.0288 mg/l
                rep   2   Be1        conc    0.0011 mg/l
                rep   2   Cu1        conc    0.2648 mg/l
                rep   2   Ag1        conc    0.0204 mg/l
                rep   2   Al1        conc    0.1864 mg/l
                rep   2   Ba1        conc    0.0354 mg/l
67019.2
08/02/95 23:27
    As1         av    -0.0935 mg/l        sd    0.02383 %cv   25.49
    Se1         av     0.2300 mg/l        sd    0.00889 %cv    3.87
    Mo1         av     0.3200 mg/l        sd    0.00025 %cv    0.08
    Cr1         av     0.0133 mg/l        sd    0.00343 %cv   25.87
    Sb1         av    -0.0057 mg/l        sd    0.06257 %cv 1102.1
    Zn1         av     0.1831 mg/l        sd    0.00659 %cv    3.60
    Cd1         av    -0.0004 mg/l          av     0.0012 mg/l        sd    0.00012
%cv   10.36
    Cu1         av     0.2715 mg/l        sd    0.00954 %cv    3.52
    Ag1         av     0.0170 mg/l        sd    0.00478 %cv   28.07
    Al1         av     0.2342 mg/l        sd    0.06756 %cv   28.85
    Ba1         av     0.0369 mg/l        sd    0.00204 %cv    5.54

"Ag1"            0.0170    0.00478      53.3      10.62 2 0
"Al1"            0.2342    0.06756     187.5      49.93 2 0
"Ba1"            0.03        av     0.0012 mg/l        sd    0.00012 %cv   10.36



    Cu1         av     0.2715 mg/l        sd    0.00954 %cv    3.52
    Ag1         av     0.0170 mg/l        sd    0.00478 %cv   28.07
    Al1         av     0.2342 mg/l        sd    0.06756 %cv   28.85
    Ba1         av     0.0369 mg/l        sd    0.00204 %cv    5.54

08/02/95 23:35
67048.6         rep   1   Ag1        conc    0.0936 mg/l
                rep   2   Ag1        conc    0.0936 mg/l
67048.6
08/02/95 23:35
    Ag1         av     0.0936 mg/l        sd    0.00001 %cv    0.01

08/02/95 23:37
ics-ab          rep   1   As1        conc    4.7485 mg/l
                rep   1   Se1        conc    2.4224 mg/l
                rep   1   Mo1        conc   -0.0686 mg/l          window edge
                rep   1   Cr1        conc    1.3099 mg/l
                rep   1   Sb1        conc    0.0191 mg/l
                rep   1   Zn1        conc    1.4335 mg/l
                rep   1   Cd1        conc    1.3330 mg/l
                rep   1   Pb1        conc    5.1741 mg/l
                rep   1   Co1        conc    1.3234 mg/l
```

	rep	1	Ni1	conc	1.3765 mg/l
	rep	1	Fe1	conc	175.0944 mg/l
	rep	1	B1	conc	0.3778 mg/l
	rep	1	Mn1	conc	0.8781 mg/l
	rep	1	Be1	conc	0.4262 mg/l
	rep	1	Cu1	conc	1.4368 mg/l
	rep	1	Ag1	conc	1.4007 mg/l
	rep	1	Al1	conc	486.4116 mg/l
	rep	1	Ba1	conc	1.4203 mg/l
	rep	2	As1	conc	4.5505 mg/l
	rep	2	Se1	conc	2.1805 mg/l
	rep	2	Mo1	conc	-0.0413 mg/l
	rep	2	Cr1	conc	1.3629 mg/l
	rep	2	Sb1	conc	-0.0963 mg/l
	rep	2	Zn1	conc	1.3199 mg/l
	rep	2	Cd1	conc	1.2650 mg/l
	rep	2	Pb1	conc	4.7676 mg/l
	rep	2	Co1	conc	1.2858 mg/l
	rep	2	Ni1	conc	1.3536 mg/l
	rep	2	Fe1	conc	189.1751 mg/l
	rep	2	B1	conc	0.3619 mg/l
	rep	2	Mn1	conc	0.8804 mg/l
	rep	2	Be1	conc	0.4433 mg/l
	rep	2	Cu1	conc	1.3506 mg/l
	rep	2	Ag1	conc	1.3232 mg/l
	rep	2	Al1	conc	495.5505 mg/l
	rep	2	Ba1	conc	1.3166 mg/l

ics-ab
08/02/95 23:43

As1	av	4.6495 mg/l	sd	0.13998 %cv	3.01
Se1	av	2.3015 mg/l	sd	0.17101 %cv	7.43
Mo1	av	-0.0550 mg/l	sd	0.01926 %cv	35.04
Cr1	av	1.3364 mg/l	sd	0.03750 %cv	2.81
Sb1	av	-0.0386 mg/l	sd	0.08157 %cv	211.46
Zn1	av	1.3767 mg/l	sd	0.08037 %cv	5.84
Cd1	av	1.2990 mg/l	sd	0.04810 %cv	3.70
Pb1	av	4.9709 mg/l	sd	0.28746 %cv	5.78
Co1	av	1.3046 mg/l	sd	0.02662 %cv	2.04

Ni1	av	1.3651 mg/l	sd	0.01624 %cv	1.19
Fe1	av	182.1347 mg/l	sd	9.95656 %cv	5.47
B1	av	0.3699 mg/l	sd	0.01121 %cv	3.03
Mn1	av	0.8792 mg/l	sd	0.00167 %cv	0.19

Be1 84 0.07328 13235.6 708.26 2 0

08/02/95 23:50

di rinse	rep	1	As1	conc	-0.2921 mg/l window edge
	rep	1	Se1	conc	0.0970 mg/l window edge
	rep	1	Mo1	conc	0.0194 mg/l
	rep	1	Cr1	conc	0.0027 mg/l
	rep	1	Sb1	conc	-0.0669 mg/l window edge
	rep	1	Zn1	conc	0.0024 mg/l
	rep	1	Cd1	conc	0.0066 mg/l
	rep	1	Pb1	conc	0.0127 mg/l
	rep	1	Co1	conc	0.0019 mg/l
	rep	1	Ni1	conc	-0.0057 mg/l window edge
	rep	1	Fe1	conc	0.0261 mg/l
	rep	1	B1	conc	0.0158 mg/l
	rep	1	Mn1	conc	0.0007 mg/l
	rep	1	Be1	conc	0.0009 mg/l

	rep	1	Cu1	conc	-0.0000 mg/l	window edge
	rep	1	Ag1	conc	0.0353 mg/l	
	rep	1	Al1	conc	-0.0022 mg/l	window edge
	rep	1	Ba1	conc	0.0025 mg/l	
	rep	2	As1	conc	0.0256 mg/l	
	rep	2	Be1	conc	0.2568 mg/l	
	rep	2	Mo1	conc	-0.0241 mg/l	
	rep	2	Cr1	conc	0.0061 mg/l	
	rep	2	Sb1	conc	0.0995 mg/l	
	rep	2	Zn1	conc	0.0004 mg/l	
	rep	2	Cd1	conc	0.0043 mg/l	
	rep	2	Pb1	conc	0.0178 mg/l	
	rep	2	Co1	conc	0.0010 mg/l	
	rep	2	Ni1	conc	0.0045 mg/l	
	rep	2	Fe1	conc	0.0099 mg/l	
	rep	2	B1	conc	0.0181 mg/l	
	rep	2	Mn1	conc	0.0009 mg/l	
	rep	2	Be1	conc	0.0008 mg/l	
	rep	2	Cu1	conc	0.0049 mg/l	
	rep	2	Ag1	conc	0.0170 mg/l	
	rep	2	Al1	conc	0.0223 mg/l	
	rep	2	Ba1	conc	0.0014 mg/l	

DI rinse
08/02/95 23:55

As1	av	-0.1333 mg/l	sd	0.22464	%cv	168.58
Be1	av	0.1769 mg/l	sd	0.11298	%cv	63.86
Mo1	av	-0.0024 mg/l	sd	0.03072	%cv	1294.8
Cr1	av	0.0044 mg/l	sd	0.00242	%cv	54.96
Sb1	av	-0.0137 mg/l	sd	0.07520	%cv	548.75
Zn1	av	0.0014 mg/l	sd	0.00139	%cv	97.92
Co1	av	0.0054 mg/l	av	0.0008 mg/l	sd	0.00007

%cv 9.25

Cu1	av	-0.0005 mg/l	sd	0.00773	%cv	1430.6
Ag1	av	0.0265 mg/l	sd	0.01252	%cv	47.30
Al1	av	0.0070 mg/l	sd	0.02161	%cv	306.98
Ba1	av	0.0019 mg/l	sd	0.00076	%cv	39.29

"Ag1"	0.0265	0.01252	74.2	27.79	2 0
"Al1"	0.0070	0.02161	19.7	15.97	2 0

"Be1" 0.00 av 0.0008 mg/l sd 0.00007 %cv 9.25

Cu1	av	-0.0005 mg/l	sd	0.00773	%cv	1430.6
Ag1	av	0.0265 mg/l	sd	0.01252	%cv	47.30
Al1	av	0.0070 mg/l	sd	0.02161	%cv	306.98
Ba1	av	0.0019 mg/l	sd	0.00076	%cv	39.29

08/03/95 00:03

ccv	rep	1	As1	conc	2.6253 mg/l
	rep	1	Be1	conc	2.5926 mg/l
	rep	1	Mo1	conc	2.7141 mg/l
	rep	1	Cr1	conc	2.8319 mg/l
	rep	1	Sb1	conc	2.7003 mg/l
	rep	1	Zn1	conc	2.6995 mg/l
	rep	1	Cd1	conc	2.7756 mg/l
	rep	1	Pb1	conc	2.6051 mg/l
	rep	1	Co1	conc	2.8015 mg/l
	rep	1	Ni1	conc	2.6849 mg/l
	rep	1	Fe1	conc	2.6271 mg/l
	rep	1	B1	conc	2.9632 mg/l
	rep	1	Mn1	conc	2.9154 mg/l
	rep	1	Be1	conc	2.8353 mg/l

	rep	1	Be1	conc	2.8353 mg/l
	rep	1	Cu1	conc	2.7428 mg/l
	rep	1	Ag1	conc	2.5863 mg/l
	rep	1	Al1	conc	2.9373 mg/l
	rep	1	Ba1	conc	2.6941 mg/l
	rep	2	As1	conc	2.9357 mg/l
	rep	2	Se1	conc	3.0075 mg/l
	rep	2	Mo1	conc	2.8374 mg/l
	rep	2	Cr1	conc	2.7463 mg/l
	rep	2	Sb1	conc	2.7559 mg/l
	rep	2	Zn1	conc	2.9269 mg/l
	rep	2	Cd1	conc	2.9219 mg/l
	rep	2	Pb1	conc	2.7870 mg/l
	rep	2	Co1	conc	2.8341 mg/l
	rep	2	Ni1	conc	2.7936 mg/l
	rep	2	Fe1	conc	2.7815 mg/l
	rep	2	B1	conc	2.8479 mg/l
	rep	2	Mn1	conc	2.8528 mg/l
	rep	2	Be1	conc	2.9070 mg/l
	rep	2	Cu1	conc	2.8804 mg/l
	rep	2	Ag1	conc	2.6902 mg/l
	rep	2	Al1	conc	3.0212 mg/l
	rep	2	Ba1	conc	2.8637 mg/l

cv

39	0.11990	26868.2	1158.85	2	0
39	0.11990	26868.2	1158.85	2	0

	av	2.8711 mg/l		sd	0.05069	%cv 1.77
Cu1	av	2.8116 mg/l		sd	0.09731	%cv 3.46
Ag1	av	2.6383 mg/l		sd	0.07351	%cv 2.79
Al1	av	2.9792 mg/l		sd	0.05929	%cv 1.99
Ba1	av	2.7789 mg/l		sd	0.11990	%cv 4.31

28/03/95 00:15

cb	rep	1	As1	conc	-0.1160 mg/l
	rep	1	Se1	conc	0.2425 mg/l
	rep	1	Mo1	conc	0.0085 mg/l
	rep	1	Cr1	conc	0.0110 mg/l
	rep	1	Sb1	conc	0.0762 mg/l
	rep	1	Zn1	conc	0.0011 mg/l
	rep	1	Cd1	conc	0.0029 mg/l
	rep	1	Pb1	conc	0.0454 mg/l
	rep	1	Co1	conc	0.0072 mg/l
	rep	1	Ni1	conc	0.0100 mg/l
	rep	1	Fe1	conc	-0.0029 mg/l
	rep	1	B1	conc	0.0464 mg/l
	rep	1	Mn1	conc	0.0005 mg/l
	rep	1	Be1	conc	0.0008 mg/l
	rep	1	Cu1	conc	0.0024 mg/l
	rep	1	Ag1	conc	0.0629 mg/l
	rep	1	Al1	conc	0.0229 mg/l
	rep	1	Ba1	conc	0.0007 mg/l
	rep	2	As1	conc	-0.1572 mg/l
	rep	2	Se1	conc	0.2251 mg/l
	rep	2	Mo1	conc	0.0096 mg/l
	rep	2	Cr1	conc	0.0025 mg/l
	rep	2	Sb1	conc	-0.0038 mg/l
	rep	2	Zn1	conc	-0.0024 mg/l
	rep	2	Cd1	conc	0.0056 mg/l
	rep	2	Pb1	conc	0.0933 mg/l
	rep	2	Co1	conc	-0.0034 mg/l

	rep	2	Ni1	conc	0.0250	mg/l
	rep	2	Fe1	conc	0.0001	mg/l
	rep	2	B1	conc	0.0342	mg/l
	rep	2	Mn1	conc	0.0004	mg/l
	rep	2	Be1	conc	0.0009	mg/l
	rep	2	Cu1	conc	0.0048	mg/l
	rep	2	Ag1	conc	0.0396	mg/l
	rep	2	Al1	conc	0.0136	mg/l
	rep	2	Ba1	conc	0.0004	mg/l

ccb
08/03/95 00:21

As1	av	-0.1366	mg/l	sd	0.02911	%cv	21.31
Se1	av	0.2338	mg/l	sd	0.01225	%cv	5.24
Mo1	av	0.0091	mg/l	sd	0.00077	%cv	8.42
Cr1	av	0.0067	mg/l	sd	0.00604	%cv	89.56
Sb1	av	0.0362	mg/l	sd	0.05660	%cv	156.22
Zn1	av	-0.0006	mg/l	sd	0.00249	%cv	394.24
Cd1	av	0.0043	mg/l	sd	0.00195	%cv	45.73
Pb1	av	0.0694	mg/l	sd	0.03385	%cv	48.80
Co1	av	0.0019	mg/l	sd	0.00747	%cv	399.53
Ni1	av	0.0175	mg/l	sd	0.01063	%cv	60.63
Fe1	av	-0.0014	mg/l	sd	0.00213	%cv	153.86
B1	av	0.0403	mg/l	sd	0.00863	%cv	21.43
Mn1	av	0.0004	mg/l	sd	0.00004	%cv	9.75

Be1 05 0.00021 14.0 2.01 2 0

APPENDIX H

BULK GROUPS AND ANALYSIS FOR PIER DRUM SITE

(2 Sheets)

BULK GROUPS AND ANALYSIS FOR PIER DRUM SITE

Bulk Group	Drum Number	Analysis	Method
PPE	1,17	None	None
Solids (BG-01)	2 thru 9, 11 thru 14, 16,19, 21 thru 32, 35	Flash Point pH Reactivity for CN & S Full TCLP TOX PCB VOCs SVOCs TAL Metals	SW-846 1020A SW-846 9045 SW-846 7.3.3 & 7.3.4 SW-846 1311 SW-846 9020 SW-846 8080 SW-846 8240 SW-846 1020A SW-846 6010
Flammable Oxidizer Liquids (BG-02)	10	Flash Point pH Reactivity for CN & S Full TCLP TOX PCB VOCs SVOCs TAL Metals Percent Water TOC	SW-846 1020A SW-846 9045 SW-846 7.3.3 & 7.3.4 SW-846 1311 SW-846 9020 SW-846 8080 SW-846 8240 SW-846 1020A SW-846 6010 Karl Fisher SW-846 9060A
Flammable Liquids (BG-03)	15A, 15B, 18	Flash Point pH Reactivity for CN & S Full TCLP TOX PCB VOCs SVOCs TAL Metals Percent Water TOC	SW-846 1020A SW-846 9045 SW-846 7.3.3 & 7.3.4 SW-846 1311 SW-846 9020 SW-846 8080 SW-846 8240 SW-846 1020A SW-846 6010 Karl Fisher SW-846 9060A

BULK GROUPS AND ANALYSIS FOR PIER DRUM SITE (Continued)

Bulk Group	Drum Number	Analysis	Method
Organic Liquids (BG-04)	33A, 33B, 34	Flash Point	SW-846 1020A
		pH	SW-846 9045
		Reactivity for CN & S	SW-846 7.3.3 & 7.3.4
		Full TCLP	SW-846 1311
		TOX	SW-846 9020
		PCB	SW-846 8080
		VOCs	SW-846 8240
		SVOCs	SW-846 1020A
		TAL Metals	SW-846 6010
		Percent Water	Karl Fisher
		TOC	SW-846 9060A
Aqueous Liquids (BG-05)	20A, 20B, 36	Flash Point	SW-846 1020A
		pH	SW-846 9045
		Reactivity for CN & S	SW-846 7.3.3 & 7.3.4
		Full TCLP	SW-846 1311
		TOX	SW-846 9020
		PCB	SW-846 8080
		VOCs	SW-846 8240
		SVOCs	SW-846 1020A
		TAL Metals	SW-846 6010
		Percent Water	Karl Fisher
		TOC	SW-846 9060A

Notes:

PPE - Personal Protection Equipment
A - next to a number refers to liquid phase
B - next to a number refers to solid or sludge phase
CN - Cyanide
S - Sulfide and Sulfur Compounds
TCLP - Toxicity Characteristic Leachate Procedure
TOX - Total Organic Halides
PCB - Polychlorinated Biphenyls
VOC - Volatile Organic Compounds
SVOC - Semivolatile Organic Compounds
TAL - Target Analyte List
TOC - Total Organic Carbon
SW - Solid Waste

APPENDIX I

POLREPS

(4 Sheets)

Pollution Report (POLREP) #1

Date: 11 August 1995

Subject: Polrep #1
Pier Drum Removal Site (Site 1D 2S)
Bradenton, Manatee County, Florida
Removal Category - Time Critical

From: James Wester, Chuck Eger
Emergency Response and Removal Branch
U.S.EPA, Region IV

To: Doug Lair, ERRB/Branch Chief Region IV
John Riley, Acting Director ERD
Art Johnson, HQ Region IV
Michael Henderson, Region IV/Community Relations

Period of Record: 31 July 1995 through 12 August 1995

Background

The Pier Drum site is a twelve (12) acre farm located at 12310 State Road 64, Bradenton, Manatee County, Florida. Reportedly, the absentee landowner leased the property to a third party from 1992 to 1994. In 1993, apparently unbeknownst to the landowner, the third party disposed of (through burial) an unknown amount of drums. After being notified of the site by the Manatee County Sheriffs office, FDEP inspected the site, excavated sixteen (16) drums, and confirmed that additional drums were buried at the site. FDEP determined that the state lacked the resources to continue the removal. The excavated drums were left at the site. EPA assistance was subsequently requested.

In January 1995, EPA conducted a geophysical survey and sampled groundwater, surface water, soil, and drummed waste at the site. The results of analysis of the samples collected from drums previously excavated by FDEP confirmed the presence of high levels of volatile organic compounds (VOCs), especially acetone and styrene. EPA determined that conditions at the site posed a significant threat to public health and the environment, warranting a removal action. An action memorandum was approved on May 17, 1995.

Site Activities During Period of Record

The following activities took place at the site from 31 July 1995 through 12 August 1995:

1. EPA, TAT, and ERCS personnel mobilized to the site on 31 July 1995 for the purpose of planning personnel and equipment needs. Groundwater and surface water samples were collected.

2. Between 1 August 1995 and 7 August 1995, site activities were suspended due to conditions associated with the passage of Hurricane Erin.

3. Removal activities resumed on 7 August 1995.

4. The two ditches where the buried drums were suspected were dewatered. Previous water sampling indicated no elevated levels of toxic chemicals in these areas.

5. ERC's excavated two areas where drums had been buried. A total of 15 drums were retrieved from both locations. Approximately, 7 of the 15 drums needed to be overpacked immediately because of their condition. The crew and all personnel in the exclusion zone were in level B PPE during the excavation operation.

6. Air monitoring survey, using an organic vapor analyzer (OVA), CGI, and H_2S monitoxs showed no levels of contaminants above background, of 1.0 ppm, present during the excavation and drum overpack operations.

7. A total of 34 drums were staged in an area near the excavation. Of the 34 drums, 17 were left from a previous site operation. 15 were retrieved during the excavation operation and two were used to store liquid drained off leaking drums and debris from the operations.

Future Activities

Removal activities are scheduled to resume on 14 August 1995. The following activities are planned:

1. Sample contents of all excavated drums for the purpose of hazard categorization and disposal profiling.

2. Sample soil, groundwater, and surface water at the site to confirm the presence or absence of contamination and additional removal needs.

3. Perform restoration of the site as necessary.

4. Dispose of drummed waste in accordance with ARARS.

Cost

The current site ceiling is $152,400 of which $144,00 is budgeted for extramural costs. The total cost of the project to date is estimated at $35,000.

Pollution Report (POLREP) #2

Date: 21 August 1995

Subject: Polrep #2
Pier Drum Removal Site (Site 1D 2S)
Bradenton, Manatee County, Florida
Removal Category - Time Critical

From: James Wester, Chuck Eger
Emergency Response and Removal Branch
U.S.EPA, Region IV

To: Doug Lair, ERRB/Branch Chief Region IV
John Riley, Acting Director ERD
Art Johnson, HQ Region IV
Michael Henderson, Region IV/Community Relations

Period of Record: 13 August 1995 through 19 August 1995

Background

The Pier Drum site is a twelve (12) acre farm located at 12310 State Road 64, Bradenton, Manatee County, Florida. Reportedly, the absentee landowner leased the property to a third party from 1992 to 1994. In 1993, apparently unbeknownst to the landowner, the third party disposed of (through burial) an unknown amount of drums. After being notified of the site by the Manatee County Sheriffs office, FDEP inspected the site, excavated sixteen (16) drums, and confirmed that additional drums were buried at the site. FDEP determined that the state lacked the resources to continue the removal. The excavated drums were left at the site. EPA assistance was subsequently requested.

In January 1995, EPA conducted a geophysical survey and sampled groundwater, surface water, soil, and drummed waste at the site. The results of analysis of the samples collected from drums previously excavated by FDEP confirmed the presence of high levels of volatile organic compounds (VOCs), especially acetone and styrene. EPA determined that conditions at the site posed a significant threat to public health and the environment, warranting a removal action. An action memorandum was approved on May 17, 1995.

Site Activities During Period of Record

The following activities took place at the site from 13 August 1995 through 19 August 1995:

1. EPA, TAT, and ERCS personnel mobilized to the site on 13 August 1995 for the purpose of Drum sampling, groundwater and surface water sampling and composite soil surface sampling.

2. ERCS contractors, with close EPA and TAT oversight, collected samples from 34 drums for hazard categorization and disposal profiling. ERCS also compiled drum logs for the excavated drums.

3. EPA and TAT also collected 27 composite surface soil samples, and 7 groundwater and surface water samples. The soil samples are to be analyzed for total metals, cobalt, and VOA's. Water samples are to be analyzed for VOA's, metals acetone and styrene. Weston Environmental Metrics is a CLP Lab contracted to perform the analysis. Expected results on the analytical data is one month.

4. ERC's demobed on 16 August 1995.

Future Activities

Future removal activities are contingent upon receipt and review of the analytical data. Such activities could include, but are not limited to:

1. Transportation and disposal activities of drummed waste. ARARS.

2. Address the soil stockpiles as needed.

3. Soil excavation as necessary.

Cost

The current site ceiling is $152,400 of which $144,00 is budgeted for extramural costs. The total cost of the project to date is estimated at $45,000.

ATTACMENT

MANIFESTS
(23 Sheets)

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: Non Regulated Solid

MATERIAL PROFILE NO.:

☒ New ☐ Amendment

A. GENERATOR INFORMATION

Generator Name: USEPA/ERRB
Facility Address: 345 Courtland St NE
* Prer properties job site Bradenton, FL
City/County: Atlanta/Fulton
State: GA Zip Code: ~~30365~~ 30365 HS 2/2/96
USEPA ID#:
State ID#:

Technical Contact: Chuck Eger
Telephone (404) 347 3555 EXT. 6134
Fax (404) 347 4464
Billing Name: OHM
Billing Address: 5335 Triangle Pkwy Suite 450
City: Norcross State: GA Zip Code: 30092
Attention: John Rhyne
Telephone (770) 729 3900 EXT. 7649

B. DOT

Shipping Name: Non regulated material
Hazard Class:
UN/NA No.: Packing Group: RQ: NRM

C. RCRA

RCRA Non Hazardous/Exempt? ☒ Yes ☐ No Process Generating: CERCLA site remediations
State Waste Codes: EPA Waste Codes:

D. ANNUAL REPORT CODES

SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☑	☒	
Cyanides	☑	☒	
Sulfides	☑	☒	
Pesticides	☑	☒	
Phenolics	☑	☒	
Dioxins	☑	☒	
Halogens	☑	☒	%

F. PHYSICAL CHARACTERISTICS AT 70º F

1. Infectious or Biological Waste? ☐ Yes ☒ No
2. NRC Regulated Radioactive? ☐ Yes ☒ No
3. Reactivity ☒ None ☐ Water Reactive ☐ Pyrophoric ☐ Shock Sensitive ☐ Cyanides ☐ DOT Explosive ☐ Sulfides ☐ Other

☐ Gas (Cylinder) ☐ Solid 100 %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☐ Free Liquids ~~%~~ HS 2/2/96 %
100%

Layers: ☒ Single Layered ☐ Bi-layered ☐ Multi-layered

Viscosity: ☒ Low ☐ Medium ☐ High

Odor: ☐ None ~~☒~~ Mild ☐ Strong Describe:

Color/Appearance: Varies

Weight
Density lbs./gal. (US, liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☐ 5-20% ☐ 1-5% ☒ 20-100%

pH ☐ N/A
☐ 0-2 ☒ 4.1-10 ☐ ≥ 12.5
☐ 2.1-4 ☐ 10.1-12.4 Exact 5

Flash Point (liquid only)
☐ <73ºF (23ºC)
☐ 73-140ºF (23-60ºC)
☐ 142-200ºF (61-93ºC)
☐ >200ºF (93ºC)
☒ N/A HS 2/2/96

Boiling Point
☐ <95ºF (35ºC)
☐ >95ºF (35ºC)
☐ N/A

BTU/Lb.

Dermal Toxicity LD_{50} (Mg/Kg)
☐ ≤40 ☐ >200, ≤1000
☐ >40, ≤200 ☐ >1000
4. Material poisonous by inhalation? ☐ Yes ☒ No

Oral Toxicity LD_{50} (Mg/Kg)

	☐ ≤5	☐ >5, ≤50
Solids:	☐ >50, ≤200	☐ >200
Liquids:	☐ >50, ≤500	☐ >500

5. Is this waste stored in vented drums? ☐ Yes ☒ No
6. Is this waste pumpable? ☐ Yes ☒ No
7. Is this waste polymerizable? ☐ Yes ☒ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☒ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☒ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☒ No

G. METALS

☐ NONE ☐ TCLP (MG/L) ☐ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☒	☐	
Barium	100 mg/L	☒	☐	
Cadmium	1 mg/L	☒	☐	
Chromium	5 mg/L	☒	☐	
Copper		☐	☐	
Lead	5 mg/L	☒	☐	
Mercury	0.2 mg/L	☒	☐	
Nickel	134 mg/L	☐	☐	
Selenium	1 mg/L	☒	☐	
Silver	5 mg/L	☒	☐	
Zinc		☐	☐	
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

Dirt/Sludge	90-100 %
Miscellaneous Debris	0-10 %
(organic matter, sticks	%
wood, grass)	%
	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☐	55 gl. drum	☐	Tanker*
☒ 18	85 gl. drum	☐	Other

Per ☒ Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☒ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: Charles K Eger (for RA) USEPA Date 27 Dec 1995

P.9/10

DEC 27 '95 03:01PM OHM SE ACCOUNTS PAYABLE NORCROSS

SENT BY:LAIDLAW ES REIDSVILLE :12- 7-95 : 4:17PM :

4047297200:# 2/ 3

LAIDLAW ENVIRONMENTAL SERVICES (TS), INC.
PROFILE ADDENDUM

NON - Regulated Solid

Generator Name: U.S.E.P.A. Region IV - Pier Properties

Profile #: _____

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

* material is Solid Flash Pt. N/A

< Reg. Levels = Less than Regulatory Levels

	Constituent	Regulatory Threshold Level*	(Check One) Yes	(Check One) No	(Check One) Scientific Data	(Check One) Generator Knowledge	Actual Value
*	D001 Ignitability	<140°F		✓			Solid
	D002 Corrosivity	≤2 or ≥12.5		✓			< Reg. Levels
	D003 Reactivity			✓			
	D004 Arsenic	5.0 ppm		✓			
	D005 Barium	100.0 ppm		✓			
	D006 Cadmium	1.0 ppm		✓			
	D007 Chromium	5.0 ppm		✓			
	D008 Lead	5.0 ppm		✓			
	D009 Mercury	0.2 ppm		✓			
	D010 Selenium	1.0 ppm		✓			
	D011 Silver	5.0 ppm		✓			
	D012 Endrin	0.02 ppm		✓			
	D013 Lindane	0.4 ppm		✓			
	D014 Methoxychlor	10.0 ppm		✓			
	D015 Toxaphene	0.5 ppm		✓			
	D016 2,4-D	10.0 ppm		✓			
	D017 2,4,5-TP Silvex	1.0 ppm		✓			
	D018 Benzene	0.5 ppm		✓			
	D019 Carbon Tetrachloride	0.5 ppm		✓			
	D020 Chlordane	0.03 ppm		✓			
	D021 Chlorobenzene	100.0 ppm		✓			
	D022 Chloroform	6.0 ppm		✓			

	Constituent	Regulatory Threshold Level*	(Check One) Yes	(Check One) No	(Check One) Scientific Data	(Check One) Generator Knowledge	Actual Value
	D023 o-Cresol	200.0 ppm		✓			< Reg. Levels
	D024 m-Cresol	200.0 ppm		✓			
	D025 p-Cresol	200.0 ppm		✓			
	D026 Cresol	200.0 ppm		✓			
	D027 1,4-Dichlorobenzene	7.5 ppm		✓			
	D028 1,2-Dichloroethane	0.5 ppm		✓			
	D029 1,1-Dichloroethylene	0.7 ppm		✓			
	D030 2,4-Dinitrotoluene	0.13 ppm		✓			
	D031 Heptachlor (and its epoxide)	0.008 ppm		✓			
	D032 Hexachlorobenzene	0.13 ppm		✓			
	D033 Hexachlorobutadiene	0.5 ppm		✓			
	D034 Hexachloroethane	3.0 ppm		✓			
	D035 Methyl ethyl ketone	200.0 ppm		✓			
	D036 Nitrobenzene	2.0 ppm		✓			
	D037 Pentachlorophenol	100.0 ppm		✓			
	D038 Pyridine	5.0 ppm		✓			
	D039 Tetrachloroethylene	0.7 ppm		✓			
	D040 Trichloroethylene	0.5 ppm		✓			
	D041 2,4,5-Trichlorophenol	400.0 ppm		✓			
	D042 2,4,6-Trichlorophenol	2.0 ppm		✓			
	D043 Vinyl Chloride	0.2 ppm		✓			

* As defined by the TCLP (Method 1311)

Note: If waste exhibits (or has exhibited) the characteristics of D001, D002 or D012-D043, the UTS Certification on the back must be completed.

FACILITY SPECIFIC WASTE INFORMATION:

- Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please check one: Yes _____ No ✓
- Does this waste contain any bioinfectious contents as described by 40 CFR 264.314/265.3147 Please check one: Yes _____ No ✓
- Is (was) the waste a wastewater, that is not in itself a listed RCRA Waste (F or K) but by treating the wastewater would create a sludge that is a RCRA listed waste (e.g. F006 sludges from the treatment of electroplating wastewaters, F019 sludges from aluminum chemical conversion coating wastewaters)? Please check one: Yes _____ No ✓ If yes, please indicate waste code(s) _____
- "Listed" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s):

NONE

REPRESENTATIVE SAMPLE CERTIFICATION:

I certify (by my signature below) that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services, Inc. to conduct necessary testing of my expense to properly complete the form, and to modify my profile based upon the analytical done on the representative sample sent upon my notification.

Print Name: Charles K Eger Signature: Charles K Eger (for RA) Title: On-Scene Coordinator USEPA Date: 27 Dec 1995

THIS PROFILE ADDENDUM/RECERTIFICATION IS REQUIRED FOR EACH PROFILE SUBMITTED TO LAIDLAW ENVIRONMENTAL SERVICES (TS), INC. ORIGINAL SIGNATURE REQUIRED

NON-Regulated Solid

PLEASE COMPLETE

Universal Treatment Standard (UTS) Certification: (For Toxicity Characteristic Waste only) (D001, D002, D018-D043 ONLY) Profile Number _____

_____ I certify that this waste does not contain any of the "underlying constituents" indicated in 40 CFR Part 268.48, Table UTS.

_____ I certify that this waste meets the UTS's for all "underlying constituents" reasonably expected to be in this waste. (Please provide analytical results)

_____ I certify that this waste does not meet the UTS's for the following "underlying constituents": (Circle all that apply)

Constituent Name	WW (mg/l)	NWW (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.8
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Aramite	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	10
Benzo(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene	0.11	6.8
Benzo(k)fluoranthene	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butanol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-butyl-4,6-dinitrophenol	0.066	2.5
Carbon disulfide	3.8	4.8 *
Carbon tetrachloride	0.057	6.0
Chlordane	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-chloroethoxy)methane	0.036	7.2
bis(2-chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol	0.77	5.6
p-Cresol	0.77	5.6
Cyclohexanone	0.36	0.75 *
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Dibromomethane	0.11	15
2,4-D	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenz(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	6.0
1,2-Dichloroethane	0.21	6.0

Constituent Name	WW (mg/l)	NWW (mg/kg)
1,1-Dichloroethylene	0.025	6.0
trans-1,2-Dichloroethylene	0.054	30
2,4-Dichlorophenol	0.044	14
2,6-Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28
1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
p-Dimethylaminoazobenzene	0.13	NA
Dinoseb (DNBP)	0.40	14
1,4-Dioxane	NA	170
Diphenylamine	0.92	13
Diphenylnitrosamine	0.92	13
1,2-Diphenylhydrazine	0.087	NA
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl benzene	0.057	10
Ethyl cyanide	0.24	360
Ethyl ether	0.12	160
bis(2-ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	3.4
Fluorene	0.059	3.4
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	10
Hexachlorobutadiene	0.055	5.6
Hexachlorocyclopentadiene	0.057	2.4
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachlorodibenzo-furans	0.000063	0.001
Hexachloroethane	0.055	30
Hexachloropropylene	0.036	30
Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Iodomethane	0.19	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	0.75 *
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-dimethyl-2-pentanone	0.80	33
Methylene chloride	0.089	30
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methanesulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	5.6
2-Naphthylamine	0.52	NA
o-Nitroaniline	0.27	14
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
o-Nitrophenol	0.029	13

Constituent Name	WW (mg/l)	NWW (mg/kg)
p-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	2.3
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethylethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Total PCB's (sum of all isomers)	0.10	10
Pentachlorobenzene	0.055	10
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachlorodibenzo-furans	0.000035	0.001
Pentachloroethane	0.055	5.6
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	5.6
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic acid	0.055	28
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
Tetrachlorodibenzo-furans	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	6.0
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.02	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
cis-1,3-Dichloropropylene	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes (sum of o-, m-, and p-)	0.32	28
Antimony	1.9	2.1 *
Arsenic	1.4	5.0 *
Barium	1.2	7.6 *
Beryllium	0.082	0.014 *
Cadmium	0.69	0.19 *
Chromium (Total)	2.77	0.86 *
Cyanides (Total)	1.2	590
Cyanides (Amenable)	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 *
Mercury (NWW from Recent)	NA	0.20 *
Mercury (All others)	0.15	0.025 *
Nickel	3.98	5.0 *
Selenium	0.82	0.16 *
Silver	0.43	0.30 *
Sulfide	14	NA
Thallium	1.4	0.078 *
Vanadium	4.3	0.23 *
Zinc	2.61	5.3 *

* Indicates that results are in mg/l from TCLP extract. All others are Total.

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: Flammable Oxidizer Liquid

MATERIAL PROFILE NO.:

☒ New ☐ Amendment

A. GENERATOR INFORMATION

Generator Name: USEPA / ERRB
Facility Address: 345 Courtland St NE
* Pier Properties job site Bradenton, FL
City/County: Atlanta / Fulton
State: GA Zip Code: 30365
USEPA ID#:
State ID#:

Technical Contact: Chuck Eger
Telephone (404) 347 3555 EXT. 6134
Fax (404) 347 4464
Billing Name: OHM
Billing Address: 5335 Triangle Pkwy Suite 450
City: Norcross State: GA Zip Code: 30092
Attention: John Rhyne
Telephone (770) 7293900 EXT. 7649

B. DOT

Shipping Name: Waste Flammable Liquid (Styrene, toluene) n.o.s.
Hazard Class: 3
UN/NA No.: 1993 Packing Group: II RQ: yes (100 lbs)

C. RCRA

RCRA Non Hazardous/Exempt? ☐ Yes ☑ No Process Generating: CERCLA site remediations
State Waste Codes: EPA Waste Codes: D001 / D008

D. ANNUAL REPORT CODES

SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☑	☒	
Cyanides	☑	☒	
Sulfides	☑	☒	
Pesticides	☑	☒	
Phenolics	☑	☒	
Dioxins	☑	☒	
Halogens	☑	☒	%

F. PHYSICAL CHARACTERISTICS AT 70º F

1. Infectious or Biological Waste? ☐ Yes ☒ No
2. NRC Regulated Radioactive? ☐ Yes ☒ No
3. Reactivity ☒ None ☐ Water Reactive ☐ Pyrophoric ☐ Shock Sensitive ☐ Cyanides ☐ DOT Explosive ☐ Sulfides ☐ Other

☐ Gas (Cylinder) ☐ Solid %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☒ Free Liquids 100 %
100%

Layers
☒ Single Layered ☐ Bi-layered ☐ Multi-layered

Viscosity
☐ Low ☒ Medium ☐ High

Odor
☐ None ☐ Mild ☐ Strong Describe:

Color/Appearance: Varies

Weight
Density lbs./gal. (US, liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☒ 5-20%
☐ 1-5% ☐ 20-100%

pH ☐ N/A
☐ 0-2 ☒ 4.1-10 ☐ ≥ 12.5
☐ 2.1-4 ☐ 10.1-12.4 Exact 6

Flash Point (liquid only)
☐ <73ºF (23ºC)
☒ 73-140ºF (23-60ºC)
☐ 142-200ºF (61-93ºC)
☐ >200ºF (93ºC)
☐ N/A

Boiling Point
☐ <95ºF (35ºC)
☐ >95ºF (35ºC)
☐ N/A

BTU/Lb.

Dermal Toxicity LD_{50} (Mg/Kg)
☐ ≤40 ☐ >200, ≤1000
☐ >40, ≤200 ☐ >1000
4. Material poisonous by inhalation? ☐ Yes ☒ No

Oral Toxicity LD_{50} (Mg/Kg)

	☐ ≤5	☐ >5, ≤50
Solids:	☐ >50, ≤200	☐ >200
Liquids:	☐ >50, ≤500	☐ >500

5. Is this waste stored in vented drums? ☐ Yes ☒ No
6. Is this waste pumpable? ☐ Yes ☒ No
7. Is this waste polymerizable? ☐ Yes ☒ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☒ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☒ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☒ No

G. METALS

☐ NONE ☐ TCLP (MG/L) ☐ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☒	☐	
Barium	100 mg/L	☒	☐	
Cadmium	1 mg/L	☒	☐	
Chromium	5 mg/L	☒	☐	
Copper		☐	☐	
Lead	5 mg/L	☐	☐	23
Mercury	0.2 mg/L	☒	☐	
Nickel	134 mg/L	☐	☐	
Selenium	1 mg/L	☒	☐	
Silver	5 mg/L	☒	☐	
Zinc		☐	☐	
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

Water	0-10 %
Solvents (ethyl benzene,	90-100 %
Styrene, xylene, toluene)	%
Copper	0-10 %
Lead	0-1 %
	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☐	55 gl. drum	☐	Tanker*
☒ 1	85 gl. drum	☐	Other

Per ☒ 1 Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☒ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: Charles K Eger for RA USEPA - Region 4 Date 27 Dec 1995

DEC 27 '95 02:59PM OHM SE ACCOUNTS PAYABLE NORCROSS

SENT BY:LAIDLAW 95 REIDSVILLE :12- 7-95 : 4:17PM :

LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC. Flam. Oxidizer Liq.
PROFILE ADDENDUM

Generator Name: U.S.E.P.A. Region IV - Pier Properties Profile #

CHARACTERISTICS OF HAZARDOUS WASTE: *Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.*

< Reg. Levels = Less than Regulatory Levels

	Constituent	Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	(Check One) Generator Knowledge	Actual Value
D001	Ignitability	<140°F	✓				130 F
D002	Corrosivity	≤2 or ≥12.5		✓	✓		< Reg. Level
D003	Reactivity			✓	✓		
D004	Arsenic	5.0 ppm		✓	✓		
D005	Barium	100.0 ppm		✓	✓		
D006	Cadmium	1.0 ppm		✓	✓		
D007	Chromium	5.0 ppm		✓	✓		
D008	Lead	5.0 ppm	✓				23
D009	Mercury	0.2 ppm		✓	✓		< Reg. Levels
D010	Selenium	1.0 ppm		✓	✓		
D011	Silver	5.0 ppm		✓	✓		
D012	Endrin	0.02 ppm		✓	✓		
D013	Lindane	0.4 ppm		✓	✓		
D014	Methoxychlor	10.0 ppm		✓	✓		
D015	Toxaphene	0.5 ppm		✓	✓		
D016	2,4-D	10.0 ppm		✓	✓		
D017	2,4,5-TP Silvex	1.0 ppm		✓	✓		
D018	Benzene	0.5 ppm		✓	✓		
D019	Carbon Tetrachloride	0.5 ppm		✓	✓		
D020	Chlordane	0.03 ppm		✓	✓		
D021	Chlorobenzene	100.0 ppm		✓	✓		
D022	Chloroform	6.0 ppm		✓	✓		

	Constituent	Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	(Check One) Generator Knowledge	Actual Value
D023	o-Cresol	200.0 ppm		✓	✓		< Reg. Level
D024	m-Cresol	200.0 ppm		✓	✓		
D025	p-Cresol	200.0 ppm		✓	✓		
D026	Cresol	200.0 ppm		✓	✓		
D027	1,4-Dichlorobenzene	7.5 ppm		✓	✓		
D028	1,2-Dichloroethane	0.5 ppm		✓	✓		
D029	1,1-Dichloroethylene	0.7 ppm		✓	✓		
D030	2,4-Dinitrotoluene	0.13 ppm		✓	✓		
D031	Heptachlor (and its epoxide)	0.008 ppm		✓	✓		
D032	Hexachlorobenzene	0.13 ppm		✓	✓		
D033	Hexachlorobutadiene	0.5 ppm		✓	✓		
D034	Hexachloroethane	3.0 ppm		✓	✓		
D035	Methyl ethyl ketone	200.0 ppm		✓	✓		
D036	Nitrobenzene	2.0 ppm		✓	✓		
D037	Pentachlorophenol	100.0 ppm		✓	✓		
D038	Pyridine	5.0 ppm		✓	✓		
D039	Tetrachloroethylene	0.7 ppm		✓	✓		
D040	Trichloroethylene	0.5 ppm		✓	✓		
D041	2,4,5-Trichlorophenol	400.0 ppm		✓	✓		
D042	2,4,6-Trichlorophenol	2.0 ppm		✓	✓		
D043	Vinyl Chloride	0.2 ppm		✓	✓		

* As defined by the TCLP (Method 1311)

Note: If waste exhibits (or has exhibited) the characteristics of D001, D002 or D012-D043, the UTS Certification on the back must be completed.

FACILITY SPECIFIC WASTE INFORMATION:

- Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please check one: Yes____ No ✓
- Does this waste contain any biodegradable sorbents as described by 40 CFR 264.314/265.314? Please check one: Yes____ No ✓
- Is (was) the waste a wastewater, that is not in itself a listed RCRA Waste (F or K) but by treating the wastewater would create a sludge that is a RCRA listed waste (e.g. F006 sludges from the treatment of electroplating wastewaters, F019 sludges from aluminum chemical conversion coating wastewaters)? Please check one: Yes____ No ✓ If yes, please indicate waste code(s) ____
- "Listed" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s):

NONE

REPRESENTATIVE SAMPLE CERTIFICATION:

I certify (by my signature below) that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services, Inc. to conduct necessary testing at my expense to properly complete the form, and to modify my profile based upon the analytical done on the representative sample sent upon my notification.

Print Name: Charles K Eger Signature: Charles K Eger for RA Title: On-Scene Coordinator, USEPA Date: 27 Dec 1995

THIS PROFILE ADDENDUM/RECERTIFICATION IS REQUIRED FOR EACH PROFILE SUBMITTED TO LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC. ORIGINAL SIGNATURE REQUIRED

4047297200;# 2/ 3

Flam. Ox. Liquid

PLEASE COMPLETE

Universal Treatment Standard (UTS) Certification: (For Toxicity Characteristic Waste only) (D001, D002, D018-D043 ONLY) Profile Number _____

_____ I certify that this waste does not contain any of the "underlying constituents" indicated in 40 CFR Part 268.48, Table UTS.

✓ I certify that this waste meets the UTS's for all "underlying constituents" reasonably expected to be in this waste. (Please provide analytical results)

_____ I certify that this waste does not meet the UTS's for the following "underlying constituents": (Circle all that apply)

Constituent Name	WW (mg/l)	NWW (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.9
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Aramite	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	10
Benzo(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene	0.11	6.8
Benzo(k)fluoranthene	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butanol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-butyl-4,6-dinitrophenol	0.066	2.5
Carbon disulfide	3.8	4.8 *
Carbon tetrachloride	0.057	6.0
Chlordane	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-chloroethoxy)methane	0.036	7.2
bis(2-chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol	0.77	5.6
p-Cresol	0.77	5.6
Cyclohexanone	0.36	0.75 *
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Dibromomethane	0.11	15
2,4-D	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenz(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethene	0.059	6.0
1,2-Dichloroethane	0.21	6.0

Constituent Name	WW (mg/l)	NWW (mg/kg)
1,1-Dichloroethylene	0.025	6.0
trans-1,2-Dichloroethylene	0.054	30
2,4-Dichlorophenol	0.044	14
2,6-Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28
1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
p-Dimethylaminoazobenzene	0.13	NA
Di-n-propylnitrosamine	0.40	14
1,4-Dioxane	NA	170
Diphenylamine	0.92	13
Diphenylnitrosamine	0.92	13
1,2-Diphenylhydrazine	0.087	NA
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl benzene	0.057	10
Ethyl cyanide	0.24	360
Ethyl ether	0.12	160
bis(2-ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	3.6
Fluorene	0.068	3.6
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	10
Hexachlorobutadiene	0.055	5.6
Hexachlorocyclopentadiene	0.057	2.4
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachlorodibenzo-furans	0.000063	0.001
Hexachloroethane	0.055	30
Hexachloropropylene	0.036	30
Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Iodomethane	0.19	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	0.75 *
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis(2-chloroaniline)	0.50	30
Methylene chloride	0.089	30
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methanesulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	5.6
2-Naphthylamine	0.52	NA
o-Nitroaniline	0.27	14
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
o-Nitrophenol	0.028	13

Constituent Name	WW (mg/l)	NWW (mg/kg)
p-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	2.3
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethylethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Total PCB's (sum of all isomers)	0.10	10
Pentachlorobenzene	0.055	10
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachlorodibenzo-furans	0.000035	0.001
Pentachloroethane	0.055	6.0
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	5.6
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic acid	0.055	28
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
Tetrachlorodibenzo-furans	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	6.0
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.02	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
tris(2,3-Dibromopropyl)phosphate	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes (sum of o-, m-, and p-)	0.32	28
Antimony	1.9	2.1 *
Arsenic	1.4	5.0 *
Barium	1.2	7.6 *
Beryllium	0.082	0.014 *
Cadmium	0.69	0.19 *
Chromium (Total)	2.77	0.86 *
Cyanides (Total)	1.2	590
Cyanides (Amenable)	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 *
Mercury (NWW from Retort)	NA	0.20 *
Mercury (All others)	0.15	0.025 *
Nickel	3.98	5.0 *
Selenium	0.82	0.16 *
Silver	0.43	0.30 *
Sulfide	14	NA
Thallium	1.4	0.078 *
Vanadium	4.3	0.23 *
Zinc	2.61	5.3 *

* Indicates that results are in mg/l from TCLP extract. All others are Total.

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: Flammable Organic Liquid

MATERIAL PROFILE NO.:

☒ New ☐ Amendment

A. GENERATOR INFORMATION

Generator Name: USEPA/ERRB
Facility Address: 345 Courtland St NE & Pier properties job site Bradenton, FL
City/County: Atlanta / Fulton
State: GA Zip Code: 30365
USEPA ID#:
State ID#:

Technical Contact: Chuck Eger
Telephone (404) 347 3555 EXT. 6134
Fax (404) 347 4464
Billing Name: OHM
Billing Address: 5335 Triangle Pkwy Suite 450
City: Norcross State: GA Zip Code: 30092
Attention: John Rhyne
Telephone (770) 729 3900 EXT. 7649

B. DOT

Shipping Name: Waste Flammable Liquid (Styrene, Acetone) n.o.s.
Hazard Class: 3
UN/NA No.: 1993 Packing Group: II RQ: yes (100 lbs)

C. RCRA

RCRA Non Hazardous/Exempt? ☐ Yes ☑ No Process Generating: CERCLA site remediation
State Waste Codes: EPA Waste Codes: D001 & D018

D. ANNUAL REPORT CODES

SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☑	☒	
Cyanides	☑	☒	
Sulfides	☑	☒	
Pesticides	☑	☒	
Phenolics	☑	☒	
Dioxins	☑	☒	
Halogens	☑	☒	%

F. PHYSICAL CHARACTERISTICS AT 70º F

1. Infectious or Biological Waste? ☐ Yes ☒ No
2. NRC Regulated Radioactive? ☐ Yes ☒ No
3. Reactivity ☑ None ☐ Water Reactive ☐ Pyrophoric ☐ Shock Sensitive ☐ Cyanides ☐ DOT Explosive ☐ Sulfides ☐ Other

☐ Gas (Cylinder) ☐ Solid %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☒ Free Liquids 100 %
100%

Layers: ☒ Single Layered ☐ Bi-layered ☐ Multi-layered

Viscosity: ☐ Low ☒ Medium ☐ High

Odor: ☐ None ☒ Mild ☐ Strong Describe:

Color/Appearance: Varies

Weight
Density lbs./gal. (US, liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☒ 5-20% ~~☐ 20-100%~~ RS 2/2/96
☐ 1-5%

pH ☐ N/A
☐ 0-2 ☒ 4.1-10 ☐ ≥ 12.5
☐ 2.1-4 ☐ 10.1-12.4 Exact

Flash Point (liquid only)
☐ <73ºF (23ºC)
☒ 73-140ºF (23-60ºC)
☐ 142-200ºF (61-93ºC)
☐ >200ºF (93ºC)
☐ N/A

Boiling Point
☐ <95ºF (35ºC)
☐ >95ºF (35ºC)
☐ N/A

BTU/Lb.

Dermal Toxicity LD_{50} (Mg/Kg)
☐ ≤40 ☐ >200, ≤1000
☐ >40, ≤200 ☐ >1000
4. Material poisonous by inhalation? ☐ Yes ☒ No

Oral Toxicity LD_{50} (Mg/Kg)

	☐ ≤5	☐ >5, ≤50
Solids:	☐ >50, ≤200	☐ >200
Liquids:	☐ >50, ≤500	☐ >500

5. Is this waste stored in vented drums? ☐ Yes ☒ No
6. Is this waste pumpable? ☐ Yes ☒ No
7. Is this waste polymerizable? ☐ Yes ☒ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☒ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☒ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☒ No

G. METALS

☐ NONE ☐ TCLP (MG/L) ☐ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☒	☐	
Barium	100 mg/L	☒	☐	
Cadmium	1 mg/L	☒	☐	
Chromium	5 mg/L	☒	☐	
Copper		☒	☐	
Lead	5 mg/L	☒	☐	
Mercury	0.2 mg/L	☒	☐	
Nickel	134 mg/L	☐	☐	
Selenium	1 mg/L	☒	☐	
Silver	5 mg/L	☒	☐	
Zinc		☐	☐	
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

Water	10-50 %
Acetone	30-70 %
Styrene	0-10 %
Acetone	0-1 %
	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☐	55 gl. drum	☐	Tanker*
☒ 4	85 gl. drum	☐	Other

Per ☒ 1 Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☒ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: Charles K Eger for RA USEPA Region 4 Date 27 Dec 1995

P.7/10

DEC 27 '95 03:00PM OHM SE ACCOUNTS PAYABLE NORCROSS

SENT BY:LAIDLAW GS REIDSVILLE :12- 7-95 ; 4:17PM ;

LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC.
PROFILE ADDENDUM

Flammable Organic Liq.

Generator Name: U.S.E.P.A. Region IV - Pier Properties

Profile #: _____

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

Constituent		Regulatory Threshold Level*	(Check One) Yes	(Check One) No	(Check One) Scientific Data	(Check One) Generator Knowledge	Actual Value
D001	Ignitability	< 140°F		✓	✓		
D002	Corrosivity	≤ 2 or ≥ 12.5		✓	✓		
D003	Reactivity			✓	✓		
D004	Arsenic	5.0 ppm		✓	✓		
D005	Barium	100.0 ppm		✓	✓		
D006	Cadmium	1.0 ppm		✓	✓		
D007	Chromium	5.0 ppm		✓	✓		
D008	Lead	5.0 ppm		✓	✓		
D009	Mercury	0.2 ppm		✓	✓		
D010	Selenium	1.0 ppm		✓	✓		
D011	Silver	5.0 ppm		✓	✓		
D012	Endrin	0.02 ppm		✓	✓		
D013	Lindane	0.4 ppm		✓	✓		
D014	Methoxychlor	10.0 ppm		✓	✓		
D015	Toxaphene	0.5 ppm		✓	✓		
D016	2,4-D	10.0 ppm		✓	✓		
D017	2,4,5-TP Silvex	1.0 ppm		✓	✓		
D018	Benzene	0.5 ppm	✓		✓		
D019	Carbon Tetrachloride	0.5 ppm		✓	✓		
D020	Chlordane	0.03 ppm		✓	✓		
D021	Chlorobenzene	100.0 ppm		✓	✓		
D022	Chloroform	6.0 ppm		✓	✓		

Constituent		Regulatory Threshold Level*	(Check One) Yes	(Check One) No	(Check One) Scientific Data	(Check One) Generator Knowledge	Actual Value
D023	o-Cresol	200.0 ppm		✓	✓		
D024	m-Cresol	200.0 ppm		✓	✓		
D025	p-Cresol	200.0 ppm		✓	✓		
D026	Cresol	200.0 ppm		✓	✓		
D027	1,4-Dichlorobenzene	7.5 ppm		✓	✓		
D028	1,2-Dichloroethane	0.5 ppm		✓	✓		
D029	1,1-Dichloroethylene	0.7 ppm		✓	✓		
D030	2,4-Dinitrotoluene	0.13 ppm		✓	✓		
D031	Heptachlor (and its epoxide)	0.008 ppm		✓	✓		
D032	Hexachlorobenzene	0.13 ppm		✓	✓		
D033	Hexachlorobutadiene	0.5 ppm		✓	✓		
D034	Hexachloroethane	3.0 ppm		✓	✓		
D035	Methyl ethyl ketone	200.0 ppm		✓	✓		
D036	Nitrobenzene	2.0 ppm		✓	✓		
D037	Pentachlorophenol	100.0 ppm		✓	✓		
D038	Pyridine	5.0 ppm		✓	✓		
D039	Tetrachloroethylene	0.7 ppm		✓	✓		
D040	Trichloroethylene	0.5 ppm		✓	✓		
D041	2,4,5-Trichlorophenol	400.0 ppm		✓	✓		
D042	2,4,6-Trichlorophenol	2.0 ppm		✓	✓		
D043	Vinyl Chloride	0.2 ppm		✓	✓		

* As defined by the TCLP (Method 1311)

Note: If waste exhibits (or has exhibited) the characteristics of D001, D002 or D012-D043, the UTS Certification on the back must be completed.

FACILITY SPECIFIC WASTE INFORMATION:

- Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please check one: Yes _____ No ✓
- Does this waste contain any biodegradable sorbents as described by 40 CFR 264.314/265.314? Please check one: Yes _____ No ✓
- Is (was) the waste a wastewater, that is not in itself a listed RCRA Waste (F or K) but by treating the wastewater would create a sludge that is a RCRA listed waste (e.g. F006 sludges from the treatment of electroplating wastewaters, F019 sludges from aluminum chemical conversion coating wastewaters)? Please check one: Yes _____ No ✓ If yes, please indicate waste code(s) _____
- "Listed" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s):

NONE

REPRESENTATIVE SAMPLE CERTIFICATION:

I certify (by my signature below) that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services, Inc. to conduct necessary testing at my expense to properly complete the form, and to modify my profile based upon the analytical done on the representative sample and upon my notification.

Print Name: Charles K. Eger Signature: Charles K Eger (for RA) Title: On-Scene Coordinator USEPA Date: 27 Dec 1995

THIS PROFILE ADDENDUM/RECERTIFICATION IS REQUIRED FOR EACH PROFILE SUBMITTED TO LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC. ORIGINAL SIGNATURE REQUIRED

4047297200 #2/ 3

Flammable Organic Liq.

PLEASE COMPLETE

Universal Treatment Standard (UTS) Certification: (For Toxicity Characteristic Waste only) (D001, D002, D018-D043 ONLY) Profile Number _____

_____ I certify that this waste does not contain any of the "underlying constituents" indicated in 40 CFR Part 268.48, Table UTS.

✓ I certify that this waste meets the UTS's for all "underlying constituents" reasonably expected to be in this waste. (Please provide analytical results)

_____ I certify that this waste does not meet the UTS's for the following "underlying constituents": (Circle all that apply)

Constituent Name	WW (mg/l)	NWW (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.9
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Aramite	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	10
Benzo(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene	0.11	6.8
Benzo(k)fluoranthene	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butanol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-butyl-4,6-dinitrophenol	0.066	2.5
Carbon disulfide	3.8	4.8 *
Carbon tetrachloride	0.057	6.0
Chlordane	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-chloroethoxy)methane	0.036	7.2
bis(2-chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol	0.77	5.6
p-Cresol	0.77	5.6
Cyclohexanone	0.36	0.75 *
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Dibromomethane	0.11	15
2,4-D	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenzo(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	6.0
1,2-Dichloroethane	0.21	6.0
1,1-Dichloroethylene	0.025	6.0
trans-1,2-Dichloroethylene	0.054	30
2,4-Dichlorophenol	0.044	14
2,6-Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28
1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
p-Dimethylaminoazobenzene	0.13	NA
Di-n-propylnitrosamine	0.40	14
1,4-Dioxane	NA	170
Diphenylamine	0.92	13
Diphenylnitrosamine	0.92	13
1,2-Diphenylhydrazine	0.087	NA
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl benzene	0.057	10
Ethyl cyanide	0.24	360
Ethyl ether	0.12	160
bis(2-ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	3.4
Fluorene	0.059	3.4
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	10
Hexachlorobutadiene	0.055	5.6
Hexachlorocyclopentadiene	0.057	2.4
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachlorodibenzo-furans	0.000063	0.001
Hexachloroethane	0.055	30
Hexachloropropylene	0.035	30
Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Isobutanol	5.6	85
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	0.75 *
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis-2-chloroaniline	0.50	30
Methylene chloride	0.089	30
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methanesulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	5.6
2-Naphthylamine	0.52	NA
o-Nitroaniline	0.27	14
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
o-Nitrophenol	0.029	13
p-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	2.3
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethylethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Total PCB's (sum of all isomers)	0.10	10
Pentachlorobenzene	0.055	10
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachlorodibenzo-furans	0.000035	0.001
Pentachloroethane	0.055	6.0
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	5.6
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic acid	0.055	28
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
Tetrachlorodibenzo-furans	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	6.0
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.02	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
tris(2,3-Dibromopropyl)phosphate	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes (sum of o-, m-, and p-)	0.32	28
Antimony	1.9	2.1 *
Arsenic	1.4	5.0 *
Barium	1.2	7.6 *
Beryllium	0.082	0.014 *
Cadmium	0.69	0.19 *
Chromium (Total)	2.77	0.86 *
Cyanides (Total)	1.2	590
Cyanides (Amenable)	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 *
Mercury (NWW from Retort)	NA	0.20 *
Mercury (All others)	0.15	0.025 *
Nickel	3.98	5.0 *
Selenium	0.82	0.16 *
Silver	0.43	0.30 *
Sulfide	14	NA
Thallium	1.4	0.078 *
Vanadium	4.3	0.23 *
Zinc	2.61	6.3 *

* Indicates that results are in mg/l from TCLP extract. All others are Total.

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: Aqueous LIQUID

MATERIAL PROFILE NO.:

☒ New ☐ Amendment

A. GENERATOR INFORMATION

Generator Name: USEPA/ERRB
Facility Address: 345 Courtland St NE + Pier properties job site Bradenton, FL
City/County: Atlanta / Fulton
State: GA Zip Code: 30365
USEPA ID#:
State ID#:

Technical Contact: Chuck Eger
Telephone (404) 347 3555 EXT. 6134
Fax (404) 347 6646
Billing Name: OHM
Billing Address: 3335 Triangle Pkwy Suite 450
City: Norcross State: GA Zip Code: 30092
Attention: John Rhyne
Telephone (770) 729 3900 EXT. 7649

B. DOT

Shipping Name: Non regulated material
Hazard Class:
UN/NA No.: Packing Group: RQ: NRM

C. RCRA

RCRA Non Hazardous/Exempt? ☒ Yes ☐ No Process Generating: CERCLA site remediation
State Waste Codes: EPA Waste Codes: NRM

D. ANNUAL REPORT CODES

SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☑	☒	
Cyanides	☑	☒	
Sulfides	☑	☒	
Pesticides	☑	☒	
Phenolics	☑	☒	
Dioxins	☑	☒	
Halogens	☐	☒	%

F. PHYSICAL CHARACTERISTICS AT 70º F

1. Infectious or Biological Waste? ☐ Yes ☒ No
2. NRC Regulated Radioactive? ☐ Yes ☒ No
3. Reactivity ☒ None ☐ Water Reactive ☐ Pyrophoric ☐ Shock Sensitive ☐ Cyanides ☐ DOT Explosive ☐ Sulfides ☐ Other

☐ Gas (Cylinder) ☐ Solid %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☒ Free Liquids 100 %
100%

Layers
☒ Single Layered ☐ Bi-layered ☐ Multi-layered

Viscosity
☐ Low ☒ Medium ☐ High

Odor
☐ None ☒ Mild ☐ Strong Describe:

Color/Appearance: Varies

Weight
Density lbs./gal. (US, liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☐ 5-20%
~~☒ 1-5%~~ ~~☐ 20-100%~~ RS 2/2/96

pH ☐ N/A
☐ 0-2 ~~☒ 4.1-10~~ ☐ ≥ 12.5
☐ 2.1-4 ☐ 10.1-12.4 Exact 7

Flash Point (liquid only)
☐ <73ºF (23ºC)
~~☒ 73-140ºF (23-60ºC)~~
☐ 142-200ºF (61-93ºC)
☒ >200ºF (93ºC) RS 2/2/96
☐ N/A

Boiling Point
☐ <95ºF (35ºC)
☐ >95ºF (35ºC)
☐ N/A

BTU/Lb.

Dermal Toxicity LD_{50} (Mg/Kg)
☐ ≤40 ☐ >200, ≤1000
☐ >40, ≤200 ☐ >1000
4. Material poisonous by inhalation? ☐ Yes ☒ No

Oral Toxicity LD_{50} (Mg/Kg)

	☐ ≤5	☐ >5, ≤50
Solids:	☐ >50, ≤200	☐ >200
Liquids:	☐ >50, ≤500	☐ >500

5. Is this waste stored in vented drums? ☐ Yes ☒ No
6. Is this waste pumpable? ☐ Yes ☒ No
7. Is this waste polymerizable? ☐ Yes ☒ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☒ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☒ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☒ No

G. METALS

☐ NONE ☐ TCLP (MG/L) ☐ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☒	☐	
Barium	100 mg/L	☒	☐	
Cadmium	1 mg/L	☒	☐	
Chromium	5 mg/L	☒	☐	
Copper		☐	☐	
Lead	5 mg/L	☒	☐	
Mercury	0.2 mg/L	☒	☐	
Nickel	134 mg/L	☐	☐	
Selenium	1 mg/L	☒	☐	
Silver	5 mg/L	☒	☐	
Zinc		☐	☐	
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

water	95-100 %
Styrene, oil, +	0-5 %
other organic Materials	%
	%
	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☐	55 gl. drum	☐	Tanker*
☒ 2	85 gl. drum	☐	Other

Per ☒ 1 Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☒ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: Charles K Eger (for RA) USEPA - Region 4 Date 27 Dec 1995

P.3/10

DEC 27 '95 02:59PM OHM SE ACCOUNTS PAYABLE NORCROSS

SENT BY:LAIDLAW ES REIDSVILLE :12- 7-95 ; 4:17PM ;

LAIDLAW ENVIRONMENTAL SERVICES (TS), INC.
PROFILE ADDENDUM

Aqueous Liquid

Generator Name: U.S.E.P.A. Region IV - Pier Properties

Profile #_____

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

Constituent		Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	Generator Knowledge	Actual Value
D001	Ignitability	<140°F					
D002	Corrosivity	≤2 or ≥12.5					
D003	Reactivity						
D004	Arsenic	5.0 ppm					
D005	Barium	100.0 ppm					
D006	Cadmium	1.0 ppm					
D007	Chromium	5.0 ppm					
D008	Lead	5.0 ppm					
D009	Mercury	0.2 ppm					
D010	Selenium	1.0 ppm					
D011	Silver	5.0 ppm					
D012	Endrin	0.02 ppm					
D013	Lindane	0.4 ppm					
D014	Methoxychlor	10.0 ppm					
D015	Toxaphene	0.5 ppm					
D016	2,4-D	10.0 ppm					
D017	2,4,5-TP Silvex	1.0 ppm					
D018	Benzene	0.5 ppm					
D019	Carbon Tetrachloride	0.5 ppm					
D020	Chlordane	0.03 ppm					
D021	Chlorobenzene	100.0 ppm					
D022	Chloroform	6.0 ppm					

Constituent		Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	Generator Knowledge	Actual Value
D023	o-Cresol	200.0 ppm					
D024	m-Cresol	200.0 ppm					
D025	p-Cresol	200.0 ppm					
D026	Cresol	200.0 ppm					
D027	1,4-Dichlorobenzene	7.5 ppm					
D028	1,2-Dichloroethane	0.5 ppm					
D029	1,1-Dichloroethylene	0.7 ppm					
D030	2,4-Dinitrotoluene	0.13 ppm					
D031	Heptachlor (and its epoxide)	0.008 ppm					
D032	Hexachlorobenzene	0.13 ppm					
D033	Hexachlorobutadiene	0.5 ppm					
D034	Hexachloroethane	3.0 ppm					
D035	Methyl ethyl ketone	200.0 ppm					
D036	Nitrobenzene	2.0 ppm					
D037	Pentachlorophenol	100.0 ppm					
D038	Pyridine	5.0 ppm					
D039	Tetrachloroethylene	0.7 ppm					
D040	Trichloroethylene	0.5 ppm					
D041	2,4,5-Trichlorophenol	400.0 ppm					
D042	2,4,6-Trichlorophenol	2.0 ppm					
D043	Vinyl Chloride	0.2 ppm					

Reg Levels

Reg Levels

* As defined by the TCLP (Method 1311)

Note: If waste exhibits (or has exhibited) the characteristics of D001, D002 or D012-D043, the UTS Certification on the back must be completed.

FACILITY SPECIFIC WASTE INFORMATION:

- Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please check one: Yes_____ No ✓
- Does this waste contain any biodegradable sorbents as described by 40 CFR 264.314/265.3147 Please check one: Yes_____ No ✓
- Is (was) the waste a wastewater, that is not in itself a listed RCRA Waste (F or K) but by treating the wastewater would create a sludge that is a RCRA listed waste (e.g. F006 sludges from the treatment of electroplating wastewaters, F019 sludges from aluminum chemical conversion coating wastewaters)? Please check one: Yes_____ No ✓ If yes, please indicate waste code(s) _____
- "Listed" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s):

  NONE

REPRESENTATIVE SAMPLE CERTIFICATION:

I certify (by my signature below) that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services, Inc. to conduct necessary testing of my expense to properly complete the form, and to modify my profile based upon the analytical done on the representative sample sent upon my notification.

Print Name: Charles K Eger

Signature: Charles K Eger (For RA) USEPA

Title: On-Scene Coordinator

Date: 27 Dec 1995

THIS PROFILE ADDENDUM/RECERTIFICATION IS REQUIRED FOR EACH PROFILE SUBMITTED TO LAIDLAW ENVIRONMENTAL SERVICES (TS), INC.

ORIGINAL SIGNATURE REQUIRED

4047297200:# 2/ 3

Aqueous Liquid

PLEASE COMPLETE

Universal Treatment Standard (UTS) Certification: (For Toxicity Characteristic Waste only) (D001, D002, D018-D043 ONLY) Profile Number _____

_____ I certify that this waste does not contain any of the "underlying constituents" indicated in 40 CFR Part 268.48, Table UTS.

✓ I certify that this waste meets the UTS's for all "underlying constituents" reasonably expected to be in this waste. (Please provide analytical results)

_____ I certify that this waste does not meet the UTS's for the following "underlying constituents": (Circle all that apply)

Constituent Name	WW (mg/l)	NWW (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.9
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Arsenic	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Barium	0.14	10
Benz(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene	0.11	6.8
Benzo(k)fluoranthene	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butanol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-butyl-4,6-dinitrophenol	0.066	2.5
Carbon disulfide	3.8	4.8 *
Carbon tetrachloride	0.057	6.0
Chlordane	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-chloroethoxy)methane	0.036	7.2
bis(2-chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.056	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol	0.77	5.6
p-Cresol	0.77	5.6
Cyclohexanone	0.36	0.75 *
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Dibromomethane	0.11	15
2,4-D	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenz(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	6.0
1,2-Dichloroethane	0.21	6.0

Constituent Name	WW (mg/l)	NWW (mg/kg)
1,1-Dichloroethylene	0.025	6.0
trans-1,2-Dichloroethylene	0.054	30
2,4-Dichlorophenol	0.044	14
2,6-Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28
1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitro-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
p-Dimethylaminoazobenzene	0.13	NA
Di-n-propylnitrosamine	0.40	14
1,4-Dioxane	NA	170
Diphenylamine	0.92	13
Diphenylnitrosamine	0.92	13
1,2-Diphenylhydrazine	0.087	NA
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl benzene	0.057	10
Ethyl cyanide	0.24	360
Ethyl ether	0.12	160
bis(2-ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	3.4
Fluorene	0.059	3.4
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	10
Hexachlorobutadiene	0.055	5.6
Hexachlorocyclopentadiene	0.057	2.4
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachlorodibenzo-furans	0.000063	0.001
Hexachloroethane	0.055	30
Hexachloropropylene	0.036	30
Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Iodomethane	0.19	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	0.75 *
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene-bis(2-chloroaniline)	0.50	35
Methylene chloride	0.089	30
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methanesulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	5.6
2-Naphthylamine	0.52	NA
o-Nitroaniline	0.27	14
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
o-Nitrophenol	0.029	13

Constituent Name	WW (mg/l)	NWW (mg/kg)
p-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	2.3
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethylethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Total PCB's (sum of all isomers)	0.10	10
Pentachlorobenzene	0.055	10
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachlorodibenzo-furans	0.000035	0.001
Pentachloroethane	0.055	6.0
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	5.6
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic acid	0.055	28
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
Tetrachlorodibenzo-furans	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	5.6
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.02	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
cis-1,3-Dichloropropylene	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes (sum of o-, m-, and p-)	0.32	28
Antimony	1.9	2.1 *
Arsenic	1.4	5.0 *
Barium	1.2	7.6 *
Beryllium	0.082	0.014 *
Cadmium	0.69	0.19 *
Chromium (Total)	2.77	0.86 *
Cyanides (Total)	1.2	590
Cyanides (Amenable)	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 *
Mercury (NWW from Retort)	NA	0.20 *
Mercury (All others)	0.15	0.025 *
Nickel	3.98	5.0 *
Selenium	0.82	0.16 *
Silver	0.43	0.30 *
Sulfide	14	NA
Thallium	1.4	0.078 *
Vanadium	4.3	0.23 *
Zinc	2.61	5.3 *

* Indicates that results are in mg/l from TCLP extract. All others are Total.

LAIDLAW ENVIRONMENTAL SERVICES

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

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: F L 0 0 0 1 0 9 6 7 1 8 — Manifest Document No.: 12310

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
USEPA/ERRB REGION IV
12310 STATE ROAD 64, BRADENTON, FL 32408-
4. Generator's Phone (770)453-7649

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: LAIDLAW ENVIRONMENTAL SERVICES (TS), INC.
6. US EPA ID Number: H D D 9 8 0 5 5 4 6 5 3
C. State Transporter's ID
D. Transporter's Phone (813) 573-1405

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
LAIDLAW ENVIRONMENTAL SERVICES (TS), INC.
5303 126TH AVENUE
CLEARWATER, FL 34620
10. US EPA ID Number: F L D 9 8 1 4 7 4 8 0 2
G. State Facility's ID
H. Facility's Phone (813) 573-1405

GENERATOR

	HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	Waste flammable liquids, N.O.S. 3, UN 1993, PG II (Benzene)	004	DM	02400	P	D001 D018
b.	X	Waste flammable liquids, N.O.S. 3, UN 1993, PG II (Lead)	001	DM	00800	P	D001 D008
c.	X	Combustible liquids, N.O.S. NA 1993, PG II	002	DM	01800	P	NKI
d.		Non Regulated material	~~036~~ 037 KB	DM	28800	P	NRN

J. Additional Descriptions for Materials Listed Above
Additional EPA Waste Codes: a. b. c. d.

K. Handling Codes for Wastes Listed Above
S01/M141

15. Special Handling Instructions and Additional Information
Approval Numbers: a. CWEPD-003 b. CWEPD-004 c. CWEPD-002 d. CWEPD-001
Emergency Contact: 1-800-535-5053 (594) Infotrac

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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
X Karen Buerki	X Karen Buerki	03	06	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Robert Scott		03	06	96

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 hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month	Day	Year

EA Form 8700-200 (Rev. 9-88) Previous editions are obsolete.

PRINTED ON RECYCLED PAPER USING SOYBEAN INK — PRINTED WITH SOY INK

GENERATOR COPY

LAIDLAW ENVIRONMENTAL SERVICES

CUSTOMER NO. GJ	BILLING ID PA CO/SWO	SALESPERSON 394-59097	DATE
PICKUP DATE CWEPD	CLIENT P.O. 881357	DISP. SITE SWO (TL)TIM LESTER	COUNTY 02/28/96

BILLING CUSTOMER 3/6/96 JOHN RHYNE

O H MATERIALS
5335 TRIANGLE PARKWAY
SUITE 450
NORCROSS GA 30092-
CHRISTINE BATES (404) 641-1066

PICK-UP CUSTOMER AND ADDRESS FL-MANATEE

USEPA/ERRB REGION IV
12310 STATE ROAD 64
BRADENTON FL 32408-
JOHN RHYNE (770) 453-7649

CHEMIST/DRIVER

TRANSPORTATION (04000)	UNIT/PRICE 30/55/3-5	UNIT/PRICE 85	EXTENSION
0-50 MILES			
51-100 MILES	43 44 KB		
101-200 MILES			
200-500 MILES			
► 500 MILES			
TOTAL			

LABOR (04045)	HOURS	PRICE
Chemist 2C1X1Hr	3	
OTHER		
Project Manager		

PROFESSIONAL SERVICES (04035)	QUANTITY	PRICE
SAMPLE ANALYSIS		
WASTE STREAM EVALUATION		

EQUIPMENT (04065)	QUANTITY	PRICE

DISPOSAL (04060)

MATERIALS (04040)	QUANTITY	PRICE
85-G Salvage Drum-New		
55-G 17C, 17H, 17E Recon.		
55-G 37M - New		
30-G 17H - New		
30-G, 20-G Fiber New		
5-G Pail - 37E, 37A-New, 34-5, 35-50		
Dot Spec. Wooden Box		
Drum Thief		
Disposal Coliwassa		
Absorbant, Clay, Vermiculite, CornCob - Bag		
Drum Pump-Use & Decon.		
4 Mil Liners		
Reactive Bags		
Dot Labels	10	
EPA Labels	43	
Sample Bottles		
Protective Gear - Level I	2	
Protective Gear - Level II		
Packing Materials 5G		
Packing Materials 20G		
Packing Materials 30G, 55G		

OTHER (04055)	QUANTITY	PRICE
Minimum Charge		

PROFILE/LABPACK	DESCRIPTION	QTY.	UM	UNIT PRICE
CWEPD-001	NONREGULATED SOLIDS, BULKABLE/PINEWOOD	37 KB .00	5	
CWEPD-002	INORGANIC WASTEWATERS/ANTIOCH/OSCO	2.00	5	
CWEPD-003	ORGANIC LIQ,PUMPABLE FUEL, HI BTU/BARTOW ✓	4.00	5	
CWEPD-004	ORGANIC LIQ,PUMP FUEL/BARTOW	2.00	5	
		43 KB		
		44		

Remarks

Karen Buerk
KB

1. ACCTG-1 | 2. Customer Service Rep. | 3. Customer Service Supv. | 4. Operations

585-7546 (3-94)

GENR COPY

LAIDLAW ENVIRONMENTAL SERVICES

FORM A

Customer Notification And Certification

Page ___ of ___

Generator Name/Location: USEPA/ERRB Region 10/ Bradenton, FL.

EPA I.D. Number: FL0001096718

Waste Profile or ARF Designation: See form

Manifest Number: 12310

EPA Waste Number(s): See form B

Waste Analysis Available? Yes (attached) ____ No ____ On file at receiving facility ✓

Unrestricted Waste Notification (*Category 1*)

Mark the statement below if you generate a waste that is not a land disposal restricted waste (the waste has no applicable treatment standards).

☐ *I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is not restricted as specified in 40 CFR §268, Subpart D or any applicable prohibitions set forth in 40 CFR §268.32 or RCRA Section 3004(d).*

Restricted Waste/Debris Notification (*Category 2*)

Mark statement (2a) below if you generate a waste that is restricted from land disposal (the waste has applicable treatment standards). **NOTE-1:** A waste may pass one or more standards and require treatment or be varianced for others. In this case, all applicable categories must be checked. **NOTE-2:** D001, D002 and D012 - D043 wastes must be evaluated for underlying constituents found in 40 CFR §268. 48 (Table UTS), that are reasonably expected to be present. A list of these constituents must be included on **FORM B**, or attached to and accompany this notification with each waste shipment. Mark statement (2b) if you generate a debris waste that will be treated to the alternate debris standards located in 40 CFR §268.45.

☐ **(2a) Restricted Waste Notification**

I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is subject to the treatment standards specified in 40 CFR §268 Subpart D. The waste: (a) must be treated to the appropriate regulatory treatment standard, by the appropriate regulatory treatment method; (b) qualifies for a variance as described in category 3 below; or (c) meets some or all of the standards as described in Category 4 below.

☐ **(2b) Alternate Debris Treatment Notification: This hazardous debris is subject to the alternate treatment standards of 40 CFR §268.45.**

The waste contains the following contaminants subject to treatment [check all that apply]:

_____ §268.45(b)(1) - Toxicity characteristic debris;

_____ §268.45(b)(2) - Debris contaminated with listed waste;

_____ §268.45(b)(3) - Cyanide reactive debris.

Restricted Waste Variance Notification (*Category 3*)

Mark the statement below and list the applicable variance date on **Form B**, if you generate a waste which **does not** require treatment prior to land disposal because of a variance (including a case-by-case extension under 40 CFR §268.5, a nationwide variance under 40 CFR §268 Subpart C, a no migration petition under 40 CFR §268.6, or other applicable variance).

☐ *I notify pursuant to 40 CFR §268.7(a)(3) that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that this waste is subject to a national capacity variance under 40 CFR §268 Subpart C, or a case-by-case extension under 40 CFR §268.5, or an exemption under 40 CFR §268.6.*

Restricted Waste Certification (Treatment Standards Met) (*Category 4*)

Mark the certification statement below if you generate a waste that is restricted from land disposal (the waste has applicable treatment standards), and the waste meets the standards as generated. **Note:** All applicable constituent standards must be accounted for. A waste may pass one or more standards and require treatment or be variance for other constituents. In this case, all applicable categories must be checked.

☐ *I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA § 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.*

SIGNATURE: for Karen Buerki DATE: 3/06/96

PRINT NAME: for Karen Buerki TITLE: Removal Site Manager

FORM B1 *(Must be accompanied by Form A)*

Generator Name/Location USEPA/ERRB Region IV / Bradenton, FL **Page** ___ **of** ___

EPA I.D. Number : FL0001096718 **Manifest :** 12370

Waste Profile or ARF	Category No.	EPA or State Waste Code	Variance Date	Description/Sub Category	Treatability Group (WW or NWW)	Waste Constituents or Legend #
CWEPD-004	2A	D001		High TOC 7110%	NWW	
	2A	D008			NWW	
CWEPD-003	2A	D001		High TOC 7110%	NWW	
	2A	D008			NWW	67.
CWEPD-002	~~2A~~ 1	—		—	—	—
-00	1	—		—	—	—

CONSTITUENTS IN SOLVENT, CALIFORNIA LIST AND CHARACTERISTIC WASTES.

F001 - F005 spent solvents

Legend #	Constituent Name
1	Acetone
2	Benzene
3	n-Butyl alcohol
*4	Carbon disulfide
5	Carbon tetrachloride
6	Chlorobenzene
7	Cresol (m-and p-isomers)
8	o-Cresol
*9	Cyclohexanone
10	1,2-Dichlorobenzene
11	Ethyl Acetate
12	Ethyl Benzene
13	Ethyl Ether
14	Isobutyl alcohol
*15	Methanol
16	Methylene Chloride
17	Methyl Ethyl Ketone
18	Methyl isobutyl ketone
19	Nitrobenzene
20	Pyridine
21	Tetrachloroethylene
22	Toluene
23	1,1,1-Trichloroethane
24	1,1,2-Trichloroethane
25	Trichlorothylene
26	1,1,2-Trichloro-1,2,2-trifluoroethane
27	Trichloromonofluoro-methane
28	Xylenes (total)

Legends 29-31 RESERVED

** If these constituents are present alone or in any combination of the three, then non waste water forms of these constituents must be treated to TCLP levels as indicated in §268.40.*

Technology-Based standards For F005 when the constituent is the only listed F00-F005 solvent

Legend #	Constituent Name
32	2-Ethoxyethanol
33	2-Nitropropane

Legends 34-43 RESERVED

CALIFORNIA LIST WASTES

Legend #	Constituent Name
44	Nickel
45	Thallium
46	Cyanide (Liquid)
47	Liquid Polychlorinated Biphenyls (PCB's)
48	Halogenated Organic compounds (HOC's)

SEE BACK FOR THE UNIVERSAL TREATMENT STANDARDS (UTS), Legends 49 - 264

THIS WASTE DOES NOT CONTAIN ANY DIOXINS, CHLORINATED FURANS, EXPLOSIVES OR RADIOACTIVE MATERIALS. TO9 - INCINERATION

LAIDLAW ENVIRONMENTAL SERVICES

Container Contents

ARF No. CWFPD-001

☐ Bulk ☐ Mixed Lab

Container Number: 960306-CWFPD-1 → 35, 43, 44			Chemist 8
DOT Shipping Name: Non Regulated material			596 597 598
Container Type: 850P	UN/NA Number:	HM	
Hazard Class:			

Receiving	Routing	Shipping
	PCO	
	2656-4116	

Line No.	Material Description	Material Quantity	RQ	EPA Waste Code Number
01	Non Regulated Solid (BGd)	~~36~~ (1x800 DDN		
02				
03				
04				
05				
06	35, 34, 2, 1, 4, 3, 5 17H55			
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

This Lab Pack list continues; Yes ☐ No ☐ This is page ____ of ____

GENERATOR

THIS WASTE DOES NOT CONTAIN ANY DIOXINS, CHLORINATED FURANS, EXPLOSIVES OR RADIOACTIVE MATERIALS. TO9 - INCINERATION

LAIDLAW ENVIRONMENTAL SERVICES

Container Contents

ARF No. CWEPD-002

☐ Bulk ☐ Mixed Lab

Container Number: 960306-CWEPD-36-539			Chemist
DOT Shipping Name: Combustible liquids, n.o.s			596 597 598
Container Type: ~~850P~~ Seabelt	UN/NA Number: NA 1993	HM	594
Hazard Class: III Styrene, oil.			

Receiving	Routing	Shipping
	OSCO	
	SO903	

Line No.	Material Description	Material Quantity	RQ	EPA Waste Code Number
01	Aqueous liquid (BG-05)	2 (N900 Hdw		———
02				
03				
04				
05	* H36 850P			
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

This Lab Pack list continues; Yes ☐ No ☐ This is page ____ of ____

GENERATOR

THIS WASTE DOES NOT CONTAIN ANY DIOXINS, CHLORINATED FURANS, EXPLOSIVES OR RADIOACTIVE MATERIALS. TO9 - INCINERATION

LAIDLAW ENVIRONMENTAL SERVICES

Container Contents

ARF No. CWEPD-003

☐ Bulk ☐ Mixed Lab

Receiving	Routing	Shipping
	BTW	
	15626-3	

Container Number: 460306-CWEPD-38,39,494			Chemist
DOT Shipping Name: Waste flammable liquids, N.O.S.			596 597 598
Container Type: 85-OP	UN/NA Number: UN 1993	HM	
Hazard Class: 3, PGII Bungs			

Line No.	Material Description	Material Quantity	RQ	EPA Waste Code Number
01	Flammable organic liquids	H(IN600H)DM		D001 D018
02				
03				
04	#38 85OP			
05	#39 85 ~~EO~~ OP			
06	#40 85 OP			
07	#41 85OP			
08				
09				
10				
11				
12				
13				
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24				
25				
26				
27				
28				
29				
30				

This Lab Pack list continues; Yes ☐ No ☐ This is page _____ of _____

GENERATOR

THIS WASTE DOES NOT CONTAIN ANY DIOXINS, CHLORINATED FURANS, EXPLOSIVES OR RADIOACTIVE MATERIALS. TO9 - INCINERATION

LAIDLAW ENVIRONMENTAL SERVICES

Container Contents

ARF No. CWEPD-004

☐ Bulk ☐ Mixed Lab

Container Number: 960306 CWEPD-42.			Chemist
DOT Shipping Name: Waste flammable liquids, n.o.s.			596 597 598
Container Type: 85DP	UN/NA Number: UN1993	HM	
Hazard Class: 3PG II			

Receiving	Routing	Shipping
	BTW	
	152363	

Line No.	Material Description	Material Quantity	RQ	EPA Waste Code Number
01	flammable liquids (136-03)			D001 D008
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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29				
30				

This Lab Pack list continues; Yes ☐ No ☐ This is page _____ of _____

GENERATOR

EAIDEAN ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: PPE & Visqueen

MATERIAL PROFILE NO.:

☑ New ☐ Amendment

A. GENERATOR INFORMATION

Generator Name: USEPA/ERRB Region IV
Facility Address: 12310 State Road 64
Pier Property Drum Site
City/County: Bradenton
State: FL Zip Code: 32408
USEPA ID#: FL0001096718
State ID#:

Technical Contact: Chuck Eger / Jom Rhyne
Telephone (770) 453-7649 EXT.
Fax (770) 729-7200
Billing Name: OHM
Billing Address: 5335 Triangle Parkway
City: Norcross State: GA Zip Code: 30092
Attention: Jom Rhyne
Telephone (770) 453-7649 EXT.

B. DOT Shipping Name: NON Regulated material
Hazard Class:
UN/NA No.: Packing Group: RQ:

C. RCRA RCRA Non Hazardous/Exempt? ☐ Yes ☐ No Process Generating:
CERCLA Site Clean-up
State Waste Codes: NONE EPA Waste Codes: NONE

D. ANNUAL REPORT CODES

SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☑	☐	
Cyanides	☑	☐	
Sulfides	☑	☐	
Pesticides	☑	☐	
Phenolics	☑	☐	
Dioxins	☑	☑	
Halogens	☑	☐	%

F. PHYSICAL CHARACTERISTICS AT 70° F

1. Infectious or Biological Waste? ☐ Yes ☑ No
2. NRC Regulated Radioactive? ☐ Yes ☑ No
3. Reactivity ☑ None ☐ Water Reactive ☐ Pyrophoric ☐ Shock Sensitive ☐ Cyanides ☐ DOT Explosive ☐ Sulfides ☐ Other

☐ Gas (Cylinder) ☑ Solid 100 %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☐ Free Liquids %
100%

Layers: ☐ Single Layered ☐ Bi-layered ☑ Multi-layered

Viscosity: ☐ Low ☐ Medium ☑ High

Odor: ☑ None ☐ Mild ☐ Strong Describe:

Color/Appearance: P.P.E.

Weight
Density 2-4 lbs./gal. (US, liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☐ 5-20% ☑ 20-100% ☐ 1-5%

pH ☐ N/A ☐ 0-2 ☑ 4.1-10 ☐ ≥ 12.5 ☐ 2.1-4 ☐ 10.1-12.4 Exact 7 to 9

Flash Point (liquid only)
☐ <73°F (23°C)
☐ 73-140°F (23-60°C)
☐ 142-200°F (61-93°C)
☐ >200°F (93°C)
☑ N/A

Boiling Point
☐ <95°F (35°C)
☐ >95°F (35°C)
☑ N/A

BTU/Lb. < 5,000

Dermal Toxicity LD_{50} (Mg/Kg)
☐ ≤40 ☐ >200, ≤1000
☐ >40, ≤200 ☑ >1000

4. Material poisonous by inhalation? ☐ Yes ☑ No

Oral Toxicity LD_{50} (Mg/Kg)

Solids:	☐ ≤5	☐ >5 ≤50	
	☐ >50, ≤200	☑ >200	
Liquids:	☐ >50, ≤500	☐ >500	

5. Is this waste stored in vented drums? ☐ Yes ☑ No
6. Is this waste pumpable? ☐ Yes ☑ No
7. Is this waste polymerizable? ☐ Yes ☑ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☑ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☑ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☑ No

G. METALS
☐ NONE ☐ TCLP (MG/L) ☑ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☐	☐	<5
Barium	100 mg/L	☐	☐	<100
Cadmium	1 mg/L	☐	☐	<1
Chromium	5 mg/L	☐	☐	<5
Copper		☐	☐	<100
Lead	5 mg/L	☐	☐	<5
Mercury	0.2 mg/L	☐	☐	<0.2
Nickel	134 mg/L	☐	☐	<134
Selenium	1 mg/L	☐	☐	<1
Silver	5 mg/L	☐	☐	<5
Zinc		☐	☐	<100
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

P.P.E	80-90 %
(Personal Protective Equipment)	%
	%
Visqueen	5-15 %
(Plastic)	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☑ 4	55 gl. drum	☐	Tanker*
☐	85 gl. drum	☐	Other

Per ☑ 1 Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☑ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: Karen Brenk for RA EPA Region 4 Date 2/28/96

PPE & Visqueen

LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC.
PROFILE ADDENDUM

Generator Name: USEPA

Profile #_____

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

Constituent		Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	(Check One) Generator Knowledge	Actual Value
D001	Ignitability	<140°F					
D002	Corrosivity	≤2 or ≥12.5					
D003	Reactivity						
D004	Arsenic	5.0 ppm					
D005	Barium	100.0 ppm					
D006	Cadmium	1.0 ppm					
D007	Chromium	5.0 ppm					
D008	Lead	5.0 ppm					
D009	Mercury	0.2 ppm					
D010	Selenium	1.0 ppm					
D011	Silver	5.0 ppm					
D012	Endrin	0.02 ppm					
D013	Lindane	0.4 ppm					
D014	Methoxychlor	10.0 ppm					
D015	Toxaphene	0.5 ppm					
D016	2,4-D	10.0 ppm					
D017	2,4,5-TP Silvex	1.0 ppm					
D018	Benzene	0.5 ppm					
D019	Carbon Tetrachloride	0.5 ppm					
D020	Chlordane	0.03 ppm					
D021	Chlorobenzene	100.0 ppm					
D022	Chloroform	6.0 ppm					

Constituent		Regulatory Threshold Level*	(Check One) Yes	No	Scientific Data	(Check One) Generator Knowledge	Actual Value
D023	o-Cresol	200.0 ppm					
D024	m-Cresol	200.0 ppm					
D025	p-Cresol	200.0 ppm					
D026	Cresol	200.0 ppm					
D027	1,4-Dichlorobenzene	7.5 ppm					
D028	1,2-Dichloroethane	0.5 ppm					
D029	1,1-Dichloroethylene	0.7 ppm					
D030	2,4-Dinitrotoluene	0.13 ppm					
D031	Heptachlor (and its epoxide)	0.008 ppm					
D032	Hexachlorobenzene	0.13 ppm					
D033	Hexachlorobutadiene	0.5 ppm					
D034	Hexachloroethane	3.0 ppm					
D035	Methyl ethyl ketone	200.0 ppm					
D036	Nitrobenzene	2.0 ppm					
D037	Pentachlorophenol	100.0 ppm					
D038	Pyridine	5.0 ppm					
D039	Tetrachloroethylene	0.7 ppm					
D040	Trichloroethylene	0.5 ppm					
D041	2,4,5-Trichlorophenol	400.0 ppm					
D042	2,4,6-Trichlorophenol	2.0 ppm					
D043	Vinyl Chloride	0.2 ppm					

* As defined by the TCLP (Method 1311)

Note: If waste exhibits (or has exhibited) the characteristics of D001, D002 or D012-D043, the UTS Certification on the back must be completed.

FACILITY SPECIFIC WASTE INFORMATION:

- Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please check one: Yes_____ No ✓
- Does this waste contain any biodegradable sorbents as described by 40 CFR 264.314/265.314? Please check one: Yes_____ No ✓
- Is (was) the waste a wastewater, that is not in itself a listed RCRA Waste (F or K) but by treating the wastewater would create a sludge that is a RCRA listed waste (e.g. F006 sludges from the treatment of electroplating wastewaters, F019 sludges from aluminum chemical conversion coating wastewaters)? Please check one: Yes_____ No ✓ If yes, please indicate waste code(s) _____
- "Listed" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s):

NONE

REPRESENTATIVE SAMPLE CERTIFICATION:

I certify (by my signature below) that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services, Inc. to conduct necessary testing at my expense to properly complete the form, and to modify my profile based upon the analytical done on the representative sample sent upon my notification.

Print Name: Karen Buerki Signature: Karen Buerki for RA Title: Removal Site Manager Date: 2/28/96

EPA, Region 9

THIS PROFILE ADDENDUM/RECERTIFICATION IS REQUIRED FOR EACH PROFILE SUBMITTED TO LAIDLAW ENVIRONMENTAL SERVICES (TSI), INC. ORIGINAL SIGNATURE REQUIRED

SENT BY:LAIDLAW GS REIDSVILLE ;12- /-95 ; 4:1 /PM ;

PPE & visqueen

PLEASE COMPLETE

Universal Treatment Standard (UTS) Certification: (For Toxicity Characteristic Waste only) (D001, D002, D018-D043 ONLY) Profile Number _____

_____ I certify that this waste does not contain any of the "underlying constituents" indicated in 40 CFR Part 268.48, Table UTS.

_____ I certify that this waste meets the UTS's for all "underlying constituents" reasonably expected to be in this waste. (Please provide analytical results)

_____ I certify that this waste does not meet the UTS's for the following "underlying constituents": (Circle all that apply)

Constituent Name	WW (mg/l)	NWW (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.9
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobiphenyl	0.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Aramite	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	10
Benzo(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene	0.11	6.8
Benzo(k)fluoranthene	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butanol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-butyl-4,6-dinitrophenol	0.066	2.5
Carbon disulfide	3.8	4.8 *
Carbon tetrachloride	0.057	6.0
Chlordane	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-chloroethoxy)methane	0.036	7.2
bis(2-chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol	0.77	5.6
p-Cresol	0.77	5.6
Cyclohexanone	0.36	0.75 *
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromomethane)	0.028	15
Dibromomethane	0.11	15
2,4-D	0.72	10
o,p'-DDD	0.023	0.087
p,p'-DDD	0.023	0.087
o,p'-DDE	0.031	0.087
p,p'-DDE	0.031	0.087
o,p'-DDT	0.0039	0.087
p,p'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenz(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	6.0
1,2-Dichloroethene	0.21	6.0

Constituent Name	WW (mg/l)	NWW (mg/kg)
1,1-Dichloroethylene	0.025	6.0
trans-1,2-Dichloroethylene	0.054	30
2,4-Dichlorophenol	0.044	14
2,6-Dichlorophenol	0.044	14
1,2-Dichloropropane	0.85	18
cis-1,3-Dichloropropene	0.036	18
trans-1,3-Dichloropropene	0.036	18
Dieldrin	0.017	0.13
Diethyl phthalate	0.20	28
2,4-Dimethyl phenol	0.036	14
Dimethyl phthalate	0.047	28
Di-n-butyl phthalate	0.057	28
1,4-Dinitrobenzene	0.32	2.3
4,6-Dinitr-o-cresol	0.28	160
2,4-Dinitrophenol	0.12	160
2,4-Dinitrotoluene	0.32	140
2,6-Dinitrotoluene	0.55	28
Di-n-octyl phthalate	0.017	28
p-Dimethylaminoazobenzene	0.13	NA
Di-n-propylnitrosoamine	0.40	14
1,4-Dioxane	NA	170
Diphenylamine	0.92	13
Diphenylnitrosamine	0.92	13
1,2-Diphenylhydrazine	0.087	NA
Disulfoton	0.017	6.2
Endosulfan I	0.023	0.066
Endosulfan II	0.029	0.13
Endosulfan sulfate	0.029	0.13
Endrin	0.0028	0.13
Endrin aldehyde	0.025	0.13
Ethyl acetate	0.34	33
Ethyl benzene	0.057	10
Ethyl cyanide	0.24	360
Ethyl ether	0.12	160
bis(2-ethylhexyl) phthalate	0.28	28
Ethyl methacrylate	0.14	160
Ethylene oxide	0.12	NA
Famphur	0.017	15
Fluoranthene	0.068	3.4
Fluorene	0.059	3.4
Heptachlor	0.0012	0.066
Heptachlor epoxide	0.016	0.066
Hexachlorobenzene	0.055	10
Hexachlorobutadiene	0.055	5.6
Hexachlorocyclopentadiene	0.057	2.4
Hexachlorodibenzo-p-dioxins	0.000063	0.001
Hexachlorodibenzo-furans	0.000063	0.001
Hexachloroethane	0.055	30
Hexachloropropylene	0.035	30
Indeno(1,2,3-c,d)pyrene	0.0055	3.4
Iodomethane	0.19	65
Isobutanol	5.6	170
Isodrin	0.021	0.066
Isosafrole	0.081	2.6
Kepone	0.0011	0.13
Methacrylonitrile	0.24	84
Methanol	5.6	0.75 *
Methapyrilene	0.081	1.5
Methoxychlor	0.25	0.18
3-Methylcholanthrene	0.0055	15
4,4-Methylene bis(2-chloroaniline)	0.50	35
Methylene chloride	0.089	30
Methyl ethyl ketone	0.28	36
Methyl isobutyl ketone	0.14	33
Methyl methacrylate	0.14	160
Methyl methanesulfonate	0.018	NA
Methyl parathion	0.014	4.6
Naphthalene	0.059	5.6
2-Naphthylamine	0.52	NA
o-Nitroaniline	0.27	14
p-Nitroaniline	0.028	28
Nitrobenzene	0.068	14
5-Nitro-o-toluidine	0.32	28
o-Nitrophenol	0.028	13

Constituent Name	WW (mg/l)	NWW (mg/kg)
p-Nitrophenol	0.12	29
N-Nitrosodiethylamine	0.40	28
N-Nitrosodimethylamine	0.40	2.3
N-Nitroso-di-n-butylamine	0.40	17
N-Nitrosomethylethylamine	0.40	2.3
N-Nitrosomorpholine	0.40	2.3
N-Nitrosopiperidine	0.013	35
N-Nitrosopyrrolidine	0.013	35
Parathion	0.014	4.6
Total PCB's (sum of all isomers)	0.10	10
Pentachlorobenzene	0.055	10
Pentachlorodibenzo-p-dioxins	0.000063	0.001
Pentachlorodibenzo-furans	0.000035	0.001
Pentachloroethane	0.055	6.0
Pentachloronitrobenzene	0.055	4.8
Pentachlorophenol	0.089	7.4
Phenacetin	0.081	16
Phenanthrene	0.059	5.6
Phenol	0.039	6.2
Phorate	0.021	4.6
Phthalic acid	0.055	28
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,3,4-TP)	0.72	7.9
2,4,5-T	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
Tetrachlorodibenzo-p-dioxins	0.000063	0.001
Tetrachlorodibenzo-furans	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	6.0
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.02	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	28
tris(2,3-Dibromopropyl)phosphate	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes (sum of o-,m-, and p-)	0.32	28
Antimony	1.9	2.1 *
Arsenic	1.4	5.0 *
Barium	1.2	7.6 *
Beryllium	0.082	0.014 *
Cadmium	0.69	0.19 *
Chromium (Total)	2.77	0.86 *
Cyanides (Total)	1.2	590
Cyanides (Amenable)	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 *
Mercury (NWW from Retort)	NA	0.20 *
Mercury (All others)	0.15	0.025 *
Nickel	3.98	5.0 *
Selenium	0.82	0.16 *
Silver	0.43	0.30 *
Sulfide	14	NA
Thallium	1.4	0.078 *
Vanadium	4.3	0.23 *
Zinc	2.61	5.3 *

* Indicates that results are in mg/l from TCLP extract. All others are Total.